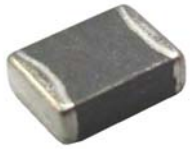
Multilayer Power Inductors



The MPx Series is a miniature type of multilayer power inductor constructed using low-loss ferrite material to support high-speed switching frequencies. The compact size and high efficiency is ideal for DC-DC converter applications in space-limited boards.

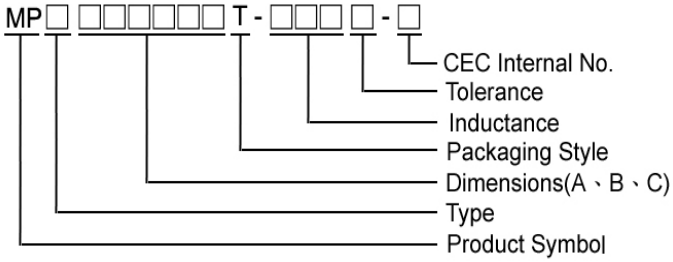
Features

- RoHS compliant
- Small size
- Low profile
- High current
- Magnetically shielded configuration allowing for high density mounting

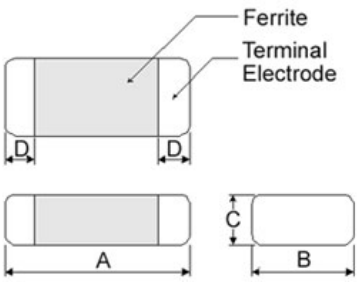
Applications

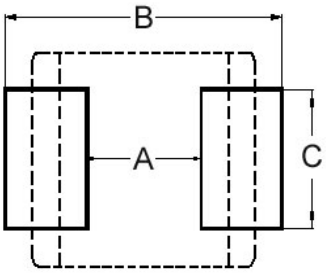
- DC-DC converters
- Power modules
- Cellular phones
- DSC, PND, DVD
- Wireless card and other electronic devices

Product Identification



- Product Symbol : MPA, MPB
- Type : A : General , B : Low RDC
- Packaging : T：Tape and Reel , B：Bulk
- Tolerance : M = ± 20% , T = ±30%





Dimensions in mm

TYPE	A	B	C	D
160808	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
201205	2.0±0.20	1.25±0.20	0.55 Max	0.5±0.3
201210	2.0±0.20	1.25±0.20	1.0 Max	0.5±0.3
201212	2.0±0.20	1.25±0.20	1.25±0.20	0.5±0.3
201610	2.0±0.20	1.6±0.20	1.0 Max	0.5±0.3
252010	2.5±0.20	2.0±0.20	1.0 Max	0.6±0.2
252012	2.5±0.20	2.0±0.20	1.2 Max	0.6±0.2

Dimensions in mm

TYPE	A	B	C
160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
201205	0.8 ~ 1.2	2.3 ~ 2.9	1.0 ~ 1.4
201210	0.8 ~ 1.2	2.3 ~ 2.9	1.0 ~ 1.4
201212	0.8 ~ 1.2	2.3 ~ 2.9	1.0 ~ 1.4
201610	0.8 ~ 1.2	2.1 ~ 2.7	1.6 ~ 2.0
252010	1.3 ~ 1.9	2.7 ~ 3.5	2.0 ~ 2.6
252012	1.3 ~ 1.9	2.7 ~ 3.5	2.0 ~ 2.6

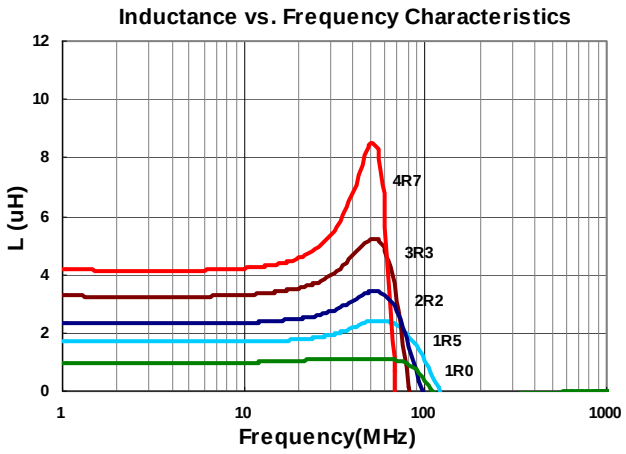
Electrical Characteristics

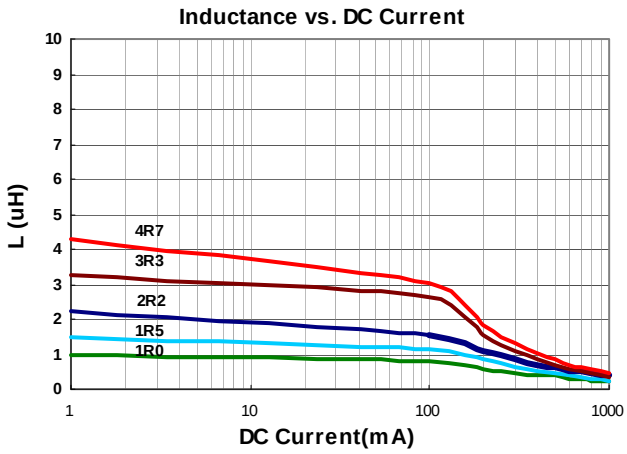
MPA : General Series

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Rated current (mA) Max
MPA201210T-1R0☐-N	1.0	1	20, 30	0.18	1100
MPA201210T-1R5☐-N	1.5	1	20, 30	0.19	1000
MPA201210T-2R2☐-N	2.2	1	20, 30	0.22	900
MPA201210T-3R3☐-N	3.3	1	20, 30	0.25	700
MPA201210T-4R7☐-N	4.7	1	20, 30	0.35	600

- Tolerance：M = ±20% ,T = ±30%
- Packaging: Clear tape and reel {standard}.
- L：Agilent/HP4287A+16197A, 1MHz 200mV
- RDC：HP 4338B, or equivalent
- Rated Current：Applied the current to coils, the temperature rise shall not be more than 40℃
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4287A Inductance / Material Analyzer





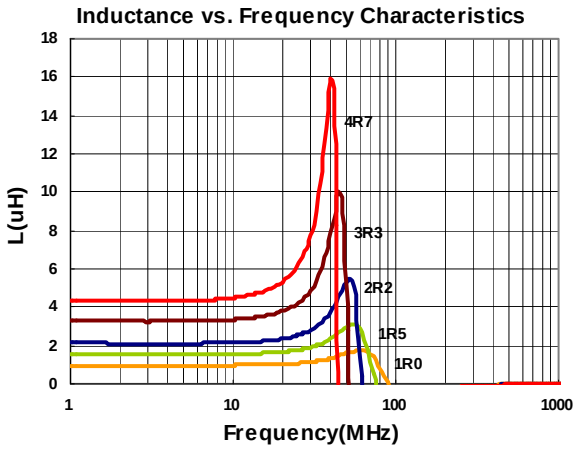
Electrical Characteristics

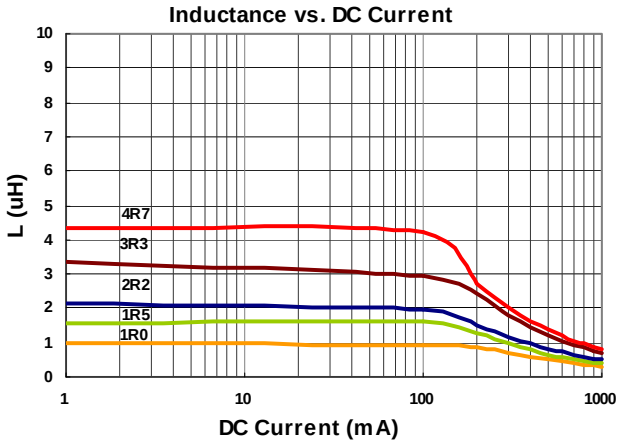
MPA : General Series

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Rated current (mA) Max
MPA252010T-1R0☐-N	1.0	1	20, 30	0.11	1200
MPA252010T-1R5☐-N	1.5	1	20, 30	0.13	1100
MPA252010T-2R2☐-N	2.2	1	20, 30	0.15	1000
MPA252010T-3R3☐-N	3.3	1	20, 30	0.18	1000
MPA252010T-4R7☐-N	4.7	1	20, 30	0.25	900

- Tolerance：M = ±20% ,T = ±30%
- Packaging: Clear tape and reel {standard}.
- L：Agilent/HP4287A+16197A, 1MHz 200mV
- RDC：HP 4118B, or equivalent
- Rated Current：Applied the current to coils, the temperature rise shall not be more than 40℃
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4287A Inductance / Material Analyzer





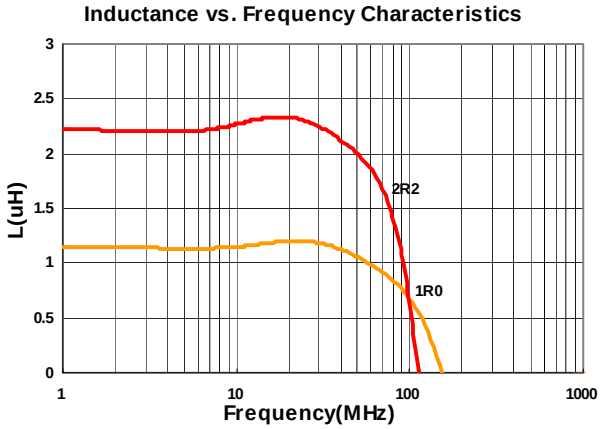
Electrical Characteristics

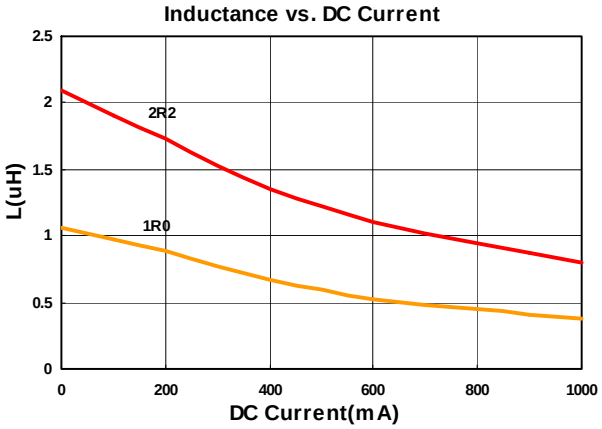
MPB : Low RDC Series

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Rated current (mA) Max
MPB160808T-1R0□-NA2	1.0	3	20, 30	0.28	800
MPB160808T-2R2□-NA2	2.2	3	20, 30	0.40	600

- Tolerance：M = ±20% ,T = ±30%
- Packaging: Clear tape and reel {standard}.
- L：Agilent/HP4287A+16197A, 3MHz 200mV
- RDC：HP 4338B, or equivalent
- Rated Current：Applied the current to coils, the temperature rise shall not be more than 40℃
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4287A Inductance / Material Analyzer





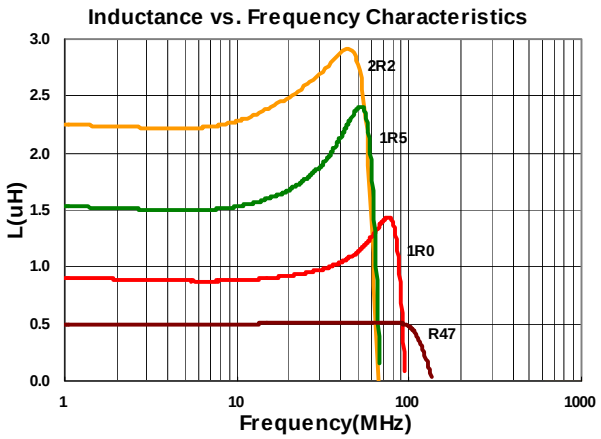
Electrical Characteristics

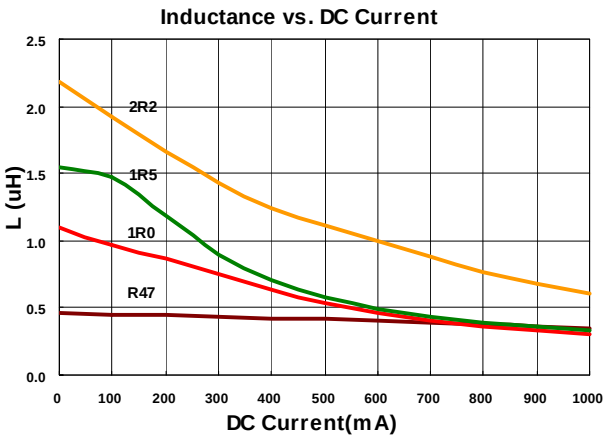
MPB : Low RDC Series

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Rated current (mA) Max
MPB201205T-R47☐-NA2	0.47	3	20, 30	0.11	1200
MPB201205T-1R0☐-NA2	1.0	3	20, 30	0.16	900
MPB201205T-1R5☐-NA2	1.5	3	20, 30	0.18	800
MPB201206T-2R2☐-NA2	2.2	3	20, 30	0.29	600

- Tolerance：M = ±20% ,T = ±30%
- Packaging: Clear tape and reel {standard}
- L：Agilent/HP4287A+16197A, 3MHz 200mV
- RDC：HP 4338B, or equivalent
- Rated Current：Applied the current to coils, the temperature rise shall not be more than 40℃
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4287A Inductance / Material Analyzer





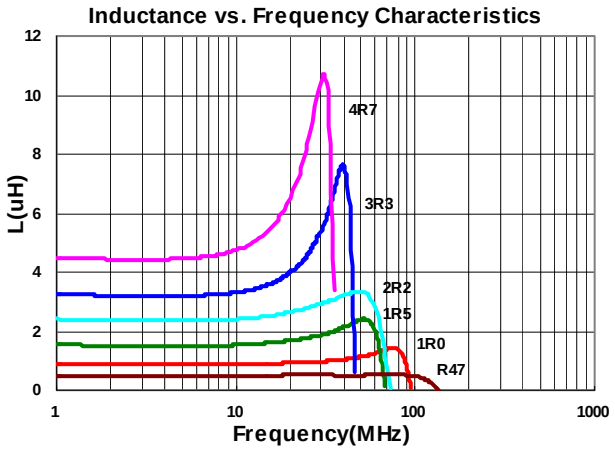
Electrical Characteristics

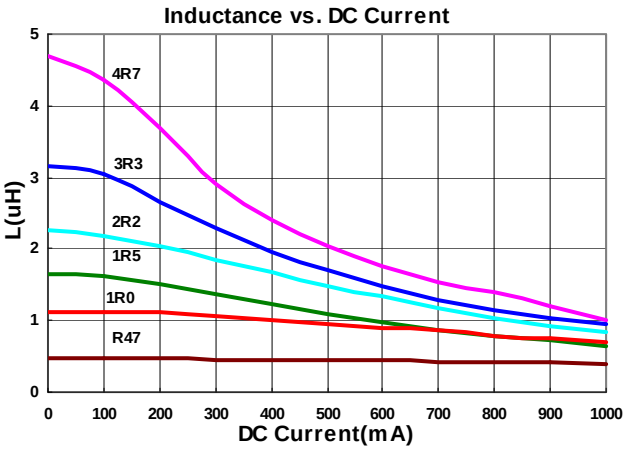
MPB : Low RDC Series

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Rated current (mA) Max
MPB201210T-R47☐-NA2	0.47	3	20, 30	0.09	1300
MPB201210T-1R0☐-NA2	1.0	3	20, 30	0.12	1200
MPB201210T-1R5☐-NA2	1.5	3	20, 30	0.15	1100
MPB201210T-2R2☐-NA2	2.2	3	20, 30	0.19	1100
MPB201210T-3R3☐-NA2	3.3	3	20, 30	0.24	800
MPB201210T-4R7☐-NA2	4.7	3	20, 30	0.26	700

- Tolerance：M = ±20% ,T = ±30%
- Packaging: Clear tape and reel {standard}.
- L：Agilent/HP4287A+16197A, 3MHz 200mV
- RDC：HP 4338B, or equivalent
- Rated Current：Applied the current to coils, the temperature rise shall not be more than 40℃
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4287A Inductance / Material Analyzer





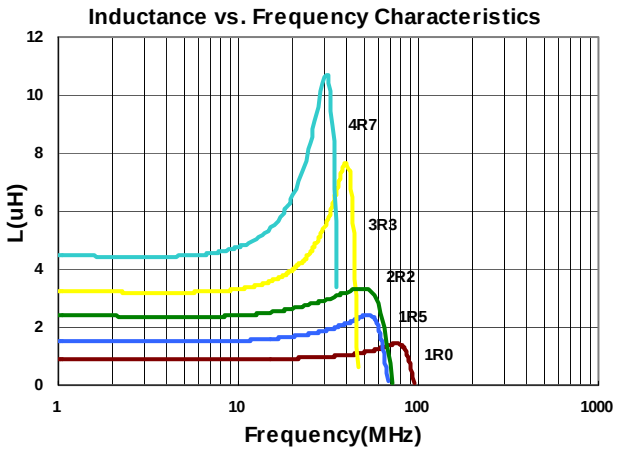
Electrical Characteristics

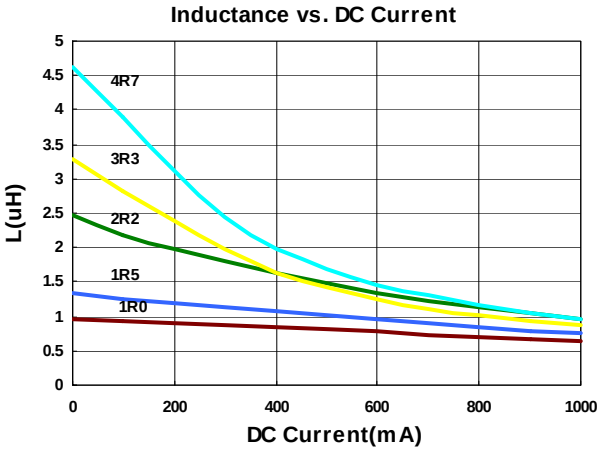
MPB : Low RDC Series

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Rated current (mA) Max
MPB201212T-1R0☐-NA2	1.0	3	20, 30	0.13	1200
MPB201212T-1R5☐-NA2	1.5	3	20, 30	0.16	1100
MPB201212T-2R2☐-NA2	2.2	3	20, 30	0.23	900
MPB201212T-3R3☐-NA2	3.3	3	20, 30	0.23	900
MPB201212T-4R7☐-NA2	4.7	3	20, 30	0.27	700

- Tolerance：M = ±20% ,T = ±30%
- Packaging: Clear tape and reel {standard}.
- L：Agilent/HP4287A+16197A, 3MHz 200mV
- RDC：HP 4338B, or equivalent
- Rated Current：Applied the current to coils, the temperature rise shall not be more than 40℃
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4287A Inductance / Material Analyzer





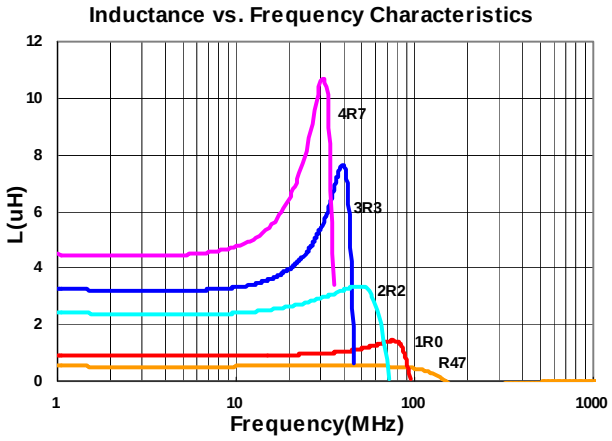
Electrical Characteristics

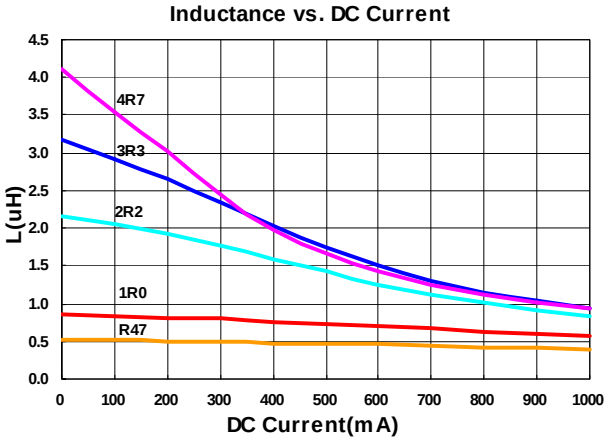
MPB : Low RDC Series

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Rated current (mA) Max
MPB201610T-R47☐-NA2	0.47	3	20, 30	0.06	1600
MPB201610T-1R0☐-NA2	1.0	3	20, 30	0.09	1300
MPB201610T-2R2☐-NA2	2.2	3	20, 30	0.13	1000
MPB201610T-3R3☐-NA2	3.3	3	20, 30	0.17	850
MPB201610T-4R7☐-NA2	4.7	3	20, 30	0.21	800

- Tolerance：M = ±20% ,T = ±30%
- Packaging: Clear tape and reel {standard}.
- L：Agilent/HP4287A+16197A, 3MHz 200mV
- RDC：HP 4338B, or equivalent
- Rated Current：Applied the current to coils, the temperature rise shall not be more than 40℃
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4287A Inductance / Material Analyzer





CHILISIN ELECTRONICS CORP.

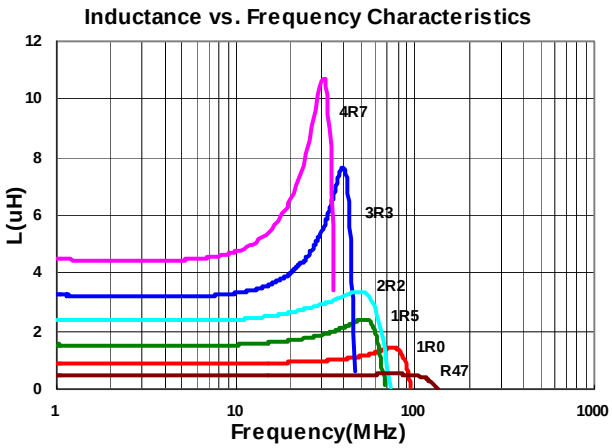
Electrical Characteristics

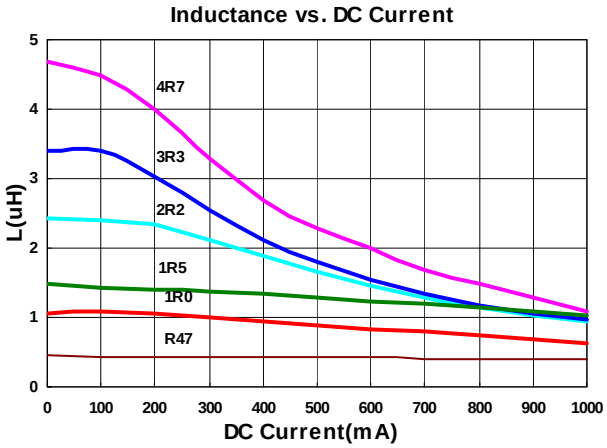
MPB : Low RDC Series

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Rated current (mA) Max
MPB252010T-R47☐-NA2	0.47	3	20, 30	0.04	1800
MPB252010T-1R0☐-NA2	1.0	3	20, 30	0.06	1500
MPB252010T-1R5☐-NA2	1.5	3	20, 30	0.07	1400
MPB252010T-2R2☐-NA2	2.2	3	20, 30	0.10	1200
MPB252010T-3R3☐-NA2	3.3	3	20, 30	0.12	1100
MPB252010T-4R7☐-NA2	4.7	3	20, 30	0.14	1000

- Tolerance：M = ±20% ,T = ±30%
- Packaging: Clear tape and reel {standard}.
- L：Agilent/HP4287A+16197A, 3MHz 200mV
- RDC：HP 4338B, or equivalent
- Rated Current：Applied the current to coils, the temperature rise shall not be more than 40℃
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4287A Inductance / Material Analyzer





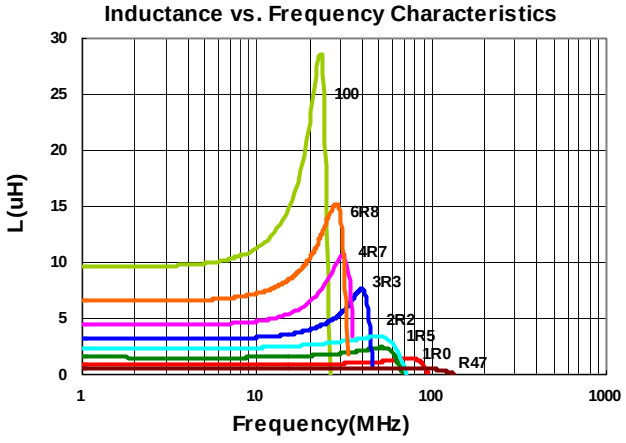
Electrical Characteristics

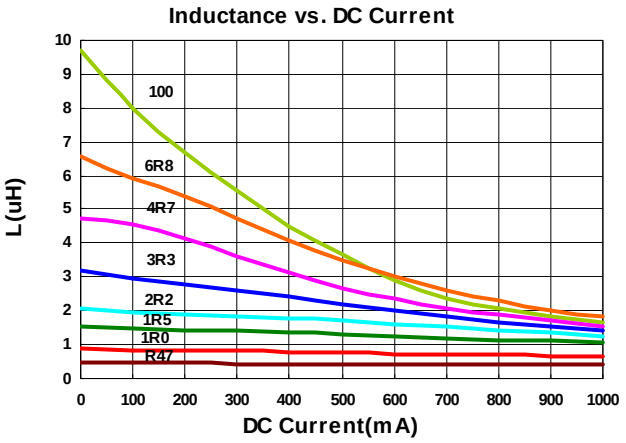
MPB : Low RDC Series

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Rated current (mA) Max
MPB252012T-R47☐-NA2	0.47	3	20, 30	0.04	1800
MPB252012T-1R0☐-NA2	1.0	3	20, 30	0.05	1600
MPB252012T-1R5☐-NA2	1.5	3	20, 30	0.07	1400
MPB252012T-2R2☐-NA2	2.2	3	20, 30	0.10	1200
MPB252012T-3R3☐-NA2	3.3	3	20, 30	0.12	1100
MPB252012T-4R7☐-NA2	4.7	3	20, 30	0.14	1000
MPB252012T-6R8☐-NA2	6.8	3	20, 30	0.16	900
MPB252012T-100☐-NA2	10	3	20, 30	0.20	500

- Tolerance：M = ±20% ,T = ±30%
- Packaging: Clear tape and reel {standard}.
- L：Agilent/HP4287A+16197A, 3MHz 200mV
- RDC：HP 4338B, or equivalent
- Rated Current：Applied the current to coils, the temperature rise shall not be more than 40℃
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

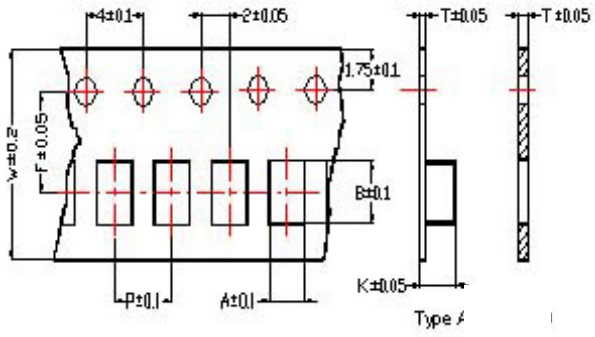
Test Instruments：HP4287A Inductance / Material Analyzer



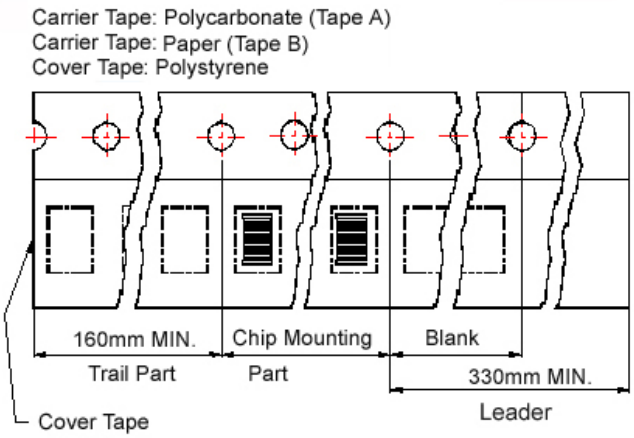


Packaging Specifications

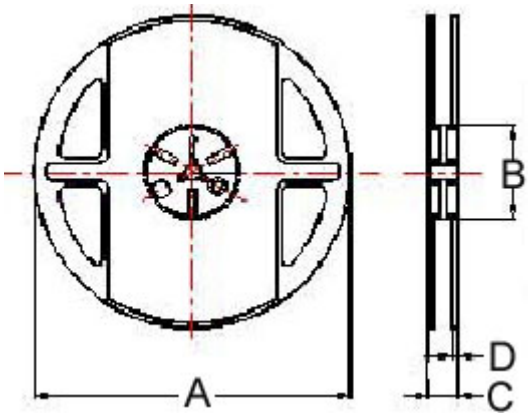
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape Type	A	B	C	D	PCS / REEL
160808	1.05	1.85	0.95	8.0	4.0	3.5	0.80	B	178	60	12	1.5	4000
201205	1.42	2.25	0.22	8.0	4.0	3.5	0.80	A	178	60	12	1.5	4000
201210	1.45	2.25	0.22	8.0	4.0	3.5	1.04	A	178	60	12	1.5	3000
201212	1.35	2.25	0.22	8.0	4.0	3.5	1.35	A	178	60	12	1.5	3000
201610	1.80	2.20	0.22	8.0	4.0	3.5	1.15	A	178	60	12	1.5	3000
252010	2.25	2.8	0.25	8.0	4.0	3.5	1.35	A	178	60	12	1.5	3000
252012	2.25	2.8	0.25	8.0	4.0	3.5	1.35	A	178	60	12	1.5	3000

MHCD Series

Chilisin's MHCD Series provides high current and low DCR in compact sizing with magnetically shielded construction. This power inductor is an excellent power solution for space-limited devices.

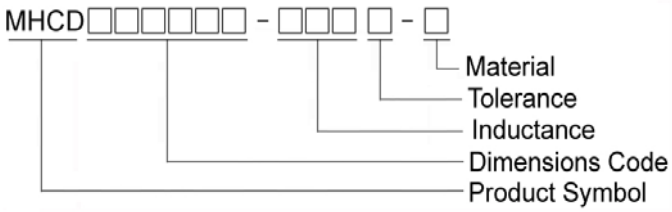
Features

- Monolithic, magnetically shielded
- Compact high saturation current
- Minimum height=1.0mm Max

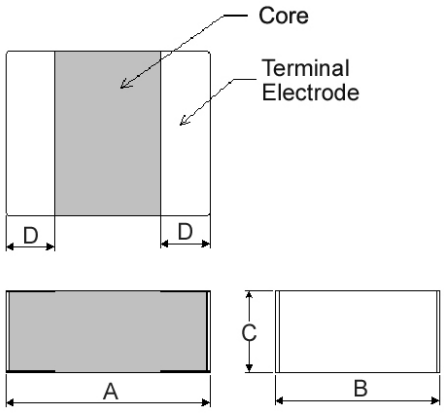
Applications

- Smartphone
- Tablet PC
- Hard disk of ultrabook
- LTE module
- Portable device

Product Identification



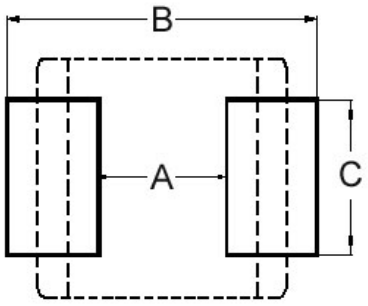
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D
201610	2.0±0.2	1.6±0.2	1.0Max	0.5±0.3
201612	2.0±0.2	1.6±0.2	1.2Max	0.5±0.3
252010	2.5±0.2	2.0±0.2	1.0Max	0.6±0.2
252012	2.5±0.2	2.0±0.2	1.2Max	0.6±0.2
322510	3.2±0.2	2.5±0.2	1.0Max	0.6±0.2
322512	3.2±0.2	2.5±0.2	1.2Max	0.6±0.2

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
201610	0.9	2.0	1.6
201612	0.9	2.0	1.6
252010	1.2	2.8	2.0
252012	1.2	2.8	2.0
322510	1.7	3.2	2.5
322512	1.7	3.2	2.5

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Irms (A)Max	Isat (A)Max	RDC (mΩ)Max
MHCD201610-R56M-A8T	0.56	20	2	2.8	2.8	59
MHCD201610-R68M-A8T	0.68	20	2	2.5	2.6	72
MHCD201610-1R0M-A8T	1.0	20	2	2.0	2.2	96
MHCD201610-1R5M-A8T	1.5	20	2	1.6	1.8	144
MHCD201610-2R2M-A8T	2.2	20	2	1.2	1.5	204

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Irms (A)Max	Isat (A)Max	RDC (mΩ)Max
MHCD201612-R47M-A8T	0.47	20	2	3.2	3.4	52
MHCD201612-1R0M-A8T	1.0	20	2	2.3	2.5	82
MHCD201612-1R5M-A8T	1.5	20	2	1.8	2.0	114
MHCD201612-2R2M-A8T	2.2	20	2	1.3	1.6	192

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Irms (A)Max	Isat (A)Max	RDC (mΩ)Max
MHCD252010-R47M-A8T	0.47	20	2	3.1	3.1	46
MHCD252010-1R0M-A8T	1.0	20	2	2.5	2.7	78
MHCD252010-1R5M-A8T	1.5	20	2	1.9	2.1	108

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Irms (A)Max	Isat (A)Max	RDC (mΩ)Max
MHCD252012-R47M-A8T	0.47	20	2	3.7	3.8	39
MHCD252012-1R0M-A8T	1.0	20	2	3.0	3.0	59
MHCD252012-1R5M-A8T	1.5	20	2	2.4	2.6	72

- **Irms** DC current (A) that will cause an approximate ΔT of 40℃.
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：N= ±30%
- L : E4980A+42841A, 2MHz 0.2V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Irms (A)Max	Isat (A)Max	RDC (mΩ)Max
MHCD322510-R47N-A8T	0.47	30	2	3.3	3.8	38
MHCD322510-1R0N-A8T	1.0	30	2	2.6	3.1	62
MHCD322510-1R5N-A8T	1.5	30	2	2.1	2.6	87
MHCD322510-2R2N-A8T	2.2	30	2	1.6	2.2	118

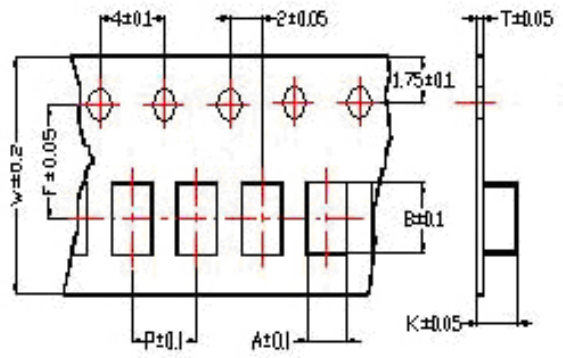
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Irms (A)Max	Isat (A)Max	RDC (mΩ)Max
MHCD322512-R47N-A8T	0.47	30	2	3.7	4.7	31
MHCD322512-1R0N-A8T	1.0	30	2	3.1	3.7	45
MHCD322512-1R5N-A8T	1.5	30	2	2.6	3.0	65
MHCD322512-2R2N-A8T	2.2	30	2	2.1	2.6	84

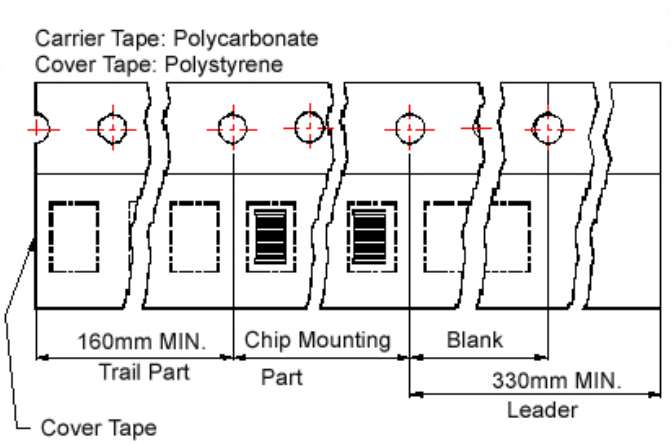
- **Irms** DC current (A) that will cause an approximate ΔT of 40℃.
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：N= ±30%
- L : E4980A+42841A, 2MHz 0.2V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Packaging Specifications

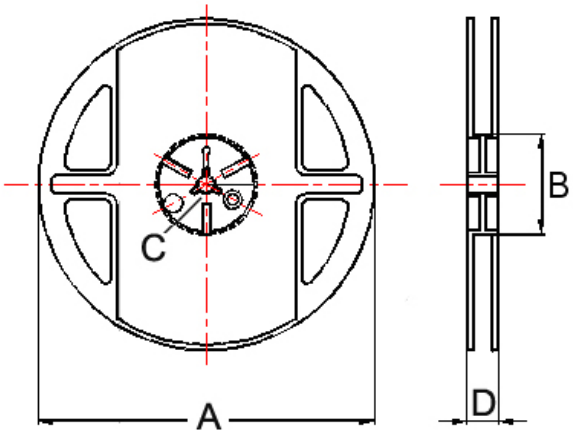
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
201610	1.80	2.20	0.25	8	4	3.5	1.15	178	60	12	1.5	3000
201612	1.80	2.20	0.25	8	4	3.5	1.35	178	60	12	1.5	3000
252010	2.25	2.80	0.25	8	4	3.5	1.15	178	60	12	1.5	3000
252012	2.25	2.80	0.25	8	4	3.5	1.35	178	60	12	1.5	3000
322510	2.77	3.42	0.22	8	4	3.5	1.55	178	60	12	1.5	3000
322512	2.77	3.42	0.22	8	4	3.5	1.55	178	60	12	1.5	3000

Alloy Molding Power Inductors

Chilisin's AME Series provides high current and low DCR in compact sizing with magnetically shielded construction. This power inductor is an excellent power solution for space-limited devices.

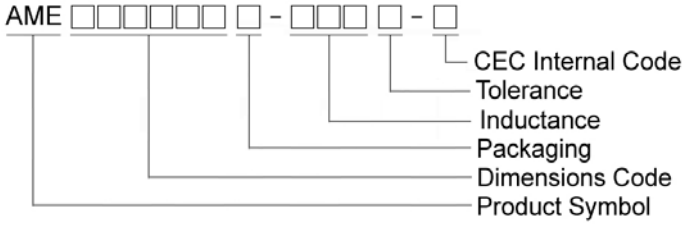
Features

- Monolithic, magnetically shielded
- Compact sizing, high saturation current
- Minimum height=1.0mm Max

Applications

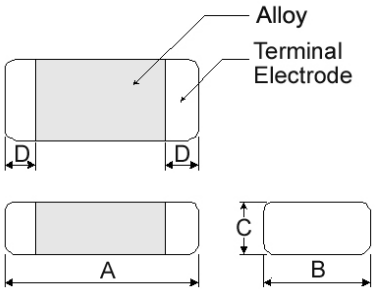
- Smartphone
- Tablet PC
- Hard Disk of ultrabook
- LTE module
- Portable device

Product Identification

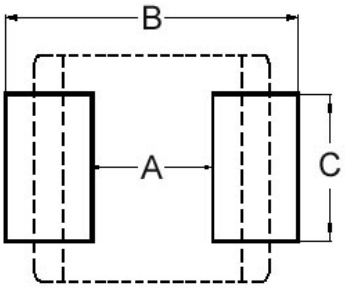


- Packaging : T：Tape and Reel , B：Bulk
- Tolerance : M = ± 20% , T = ±30%

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
201610	2.0±0.20	1.6±0.20	1.0 Max	0.5±0.3
252010	2.5±0.2	2.0±0.2	1.0 Max	0.6±0.3
252012	2.5±0.2	2.0±0.2	1.2 Max	0.6±0.3

Dimensions in mm

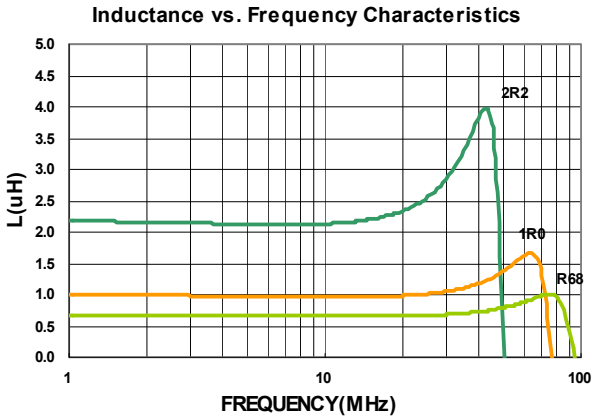
TYPE	A	B	C
201610	0.8 ~ 1.2	2.1 ~ 2.7	1.6 ~ 2.0
252010	1.2	2.8	2.0
252012	1.2	2.8	2.0

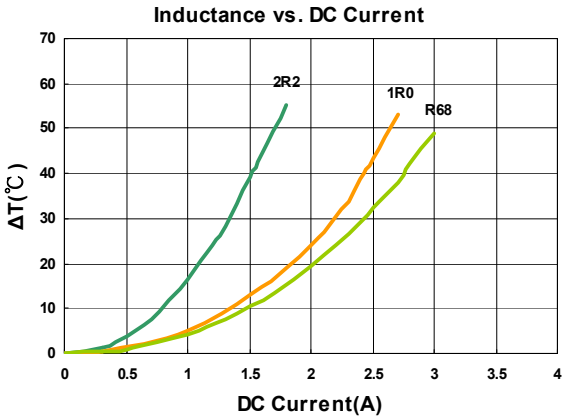
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) Max	Isat (A) Max	Irms (A) Max
AME201610T-R47☐-N	0.47	1	20,30	0.059	2.9	2.8
AME201610T-R68☐-N	0.68	1	20,30	0.072	2.6	2.5
AME201610T-1R0☐-N	1.0	1	20,30	0.096	2.2	2.0
AME201610T-1R5☐-N	1.5	1	20,30	0.144	1.8	1.6
AME201610T-2R2☐-N	2.2	1	20,30	0.204	1.5	1.2

- Tolerance：M = ±20% , T = ±30%
- Packaging: Clear tape and reel {standard}
- L：Agilent/HP4287A+16197A, 1MHz 500mV
- RDC：HP 4338B, or equivalent
- Rated Current：Applied the current to coils, the temperature rise shall not be more than 40℃
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4287A Inductance / Material Analyzer



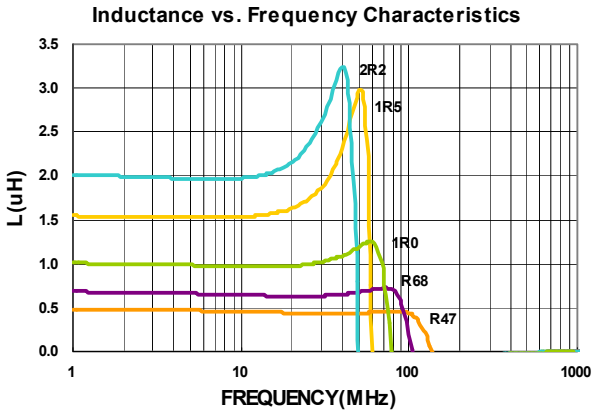


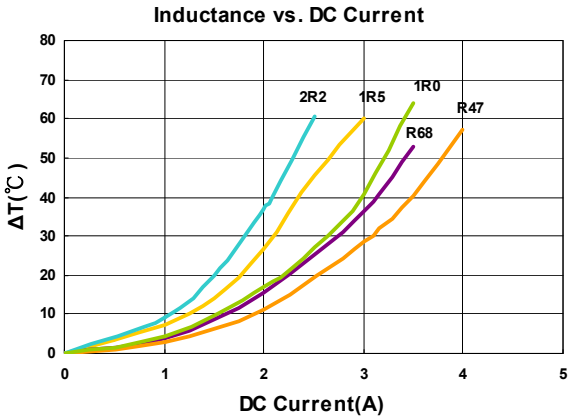
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) Max	Isat (A) Max	Irms (A) Max
AME252010T-R47☐-N	0.47	1	20,30	0.053	3.7	3.5
AME252010T-R68☐-N	0.68	1	20,30	0.065	3.0	3.1
AME252010T-1R0☐-N	1.0	1	20,30	0.078	2.7	2.5
AME252010T-1R5☐-N	1.5	1	20,30	0.108	2.1	1.9
AME252010T-2R2☐-N	2.2	1	20,30	0.156	1.9	1.5

- Tolerance：M = ±20% , T = ±30%
- Packaging: Clear tape and reel {standard}
- L：Agilent/HP4287A+16197A, 1MHz 500mV
- RDC：HP 4338B, or equivalent
- Rated Current：Applied the current to coils, the temperature rise shall not be more than 40℃
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4287A Inductance / Material Analyzer



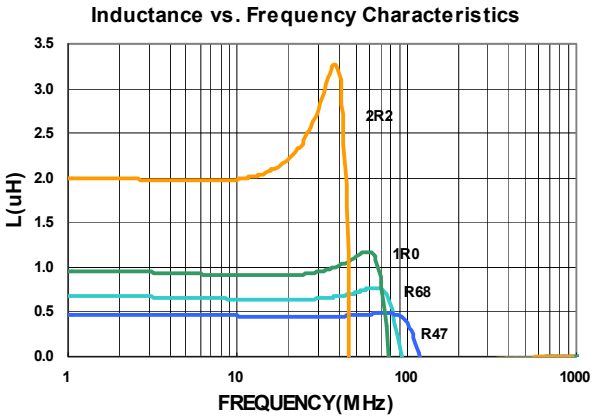


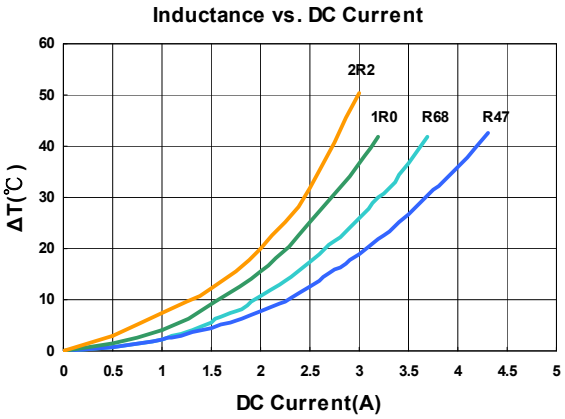
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) Max	Isat (A) Max	Irms (A) Max
AME252012T-R47☐-N	0.47	1	20,30	0.04	4.2	3.7
AME252012T-R68☐-N	0.68	1	20,30	0.047	3.8	3.3
AME252012T-1R0☐-N	1.0	1	20,30	0.06	3.0	3.0
AME252012T-2R2☐-N	2.2	1	20,30	0.11	2.2	2.0

- Tolerance：M = ±20% , T = ±30%
- Packaging: Clear tape and reel {standard}
- L：Agilent/HP4287A+16197A, 1MHz 500mV
- RDC：HP 4338B, or equivalent
- Rated Current：Applied the current to coils, the temperature rise shall not be more than 40℃
- Operating temperature range from -40℃ to125℃. (Including self - temperature rise)

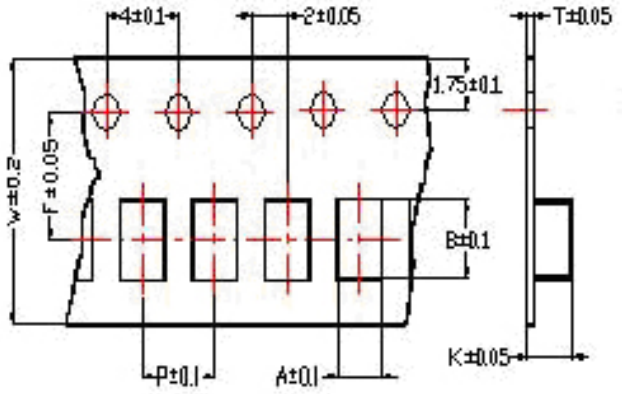
Test Instruments：HP4287A Inductance / Material Analyzer



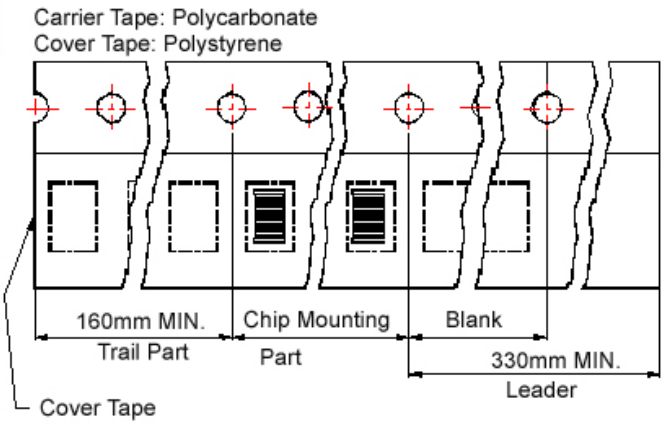


Packaging Specifications

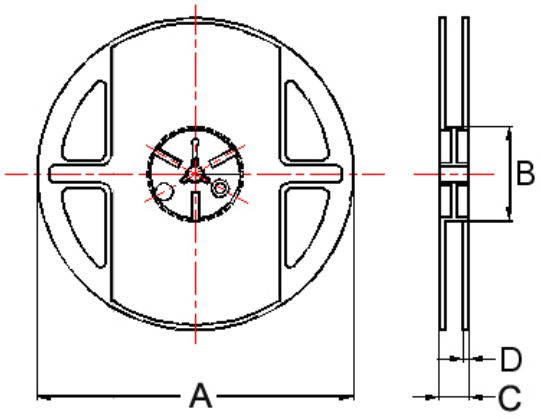
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
201610	1.80	2.2	0.22	8.0	4.0	3.5	1.15	178	60	12	1.5	4000
252010	2.25	2.8	0.25	8.0	4.0	3.5	1.15	178	60	12	1.5	3000
252012	2.25	2.8	0.25	8.0	4.0	3.5	1.35	178	60	12	1.5	3000

MHCC、MHCI Series

MHCC series is designed for low profile type with low RDC and ultra large current. Its molded magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

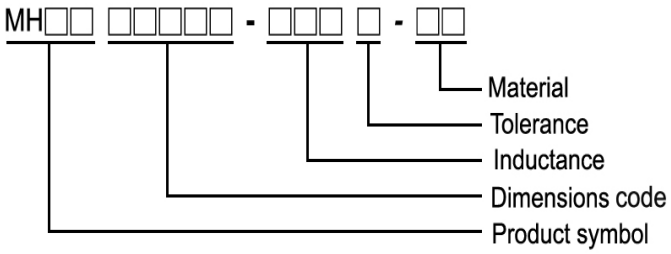
Features

- RoHS compliant
- Low profile type
- Shielded construction
- Ultra low buzz noise due to molding construction

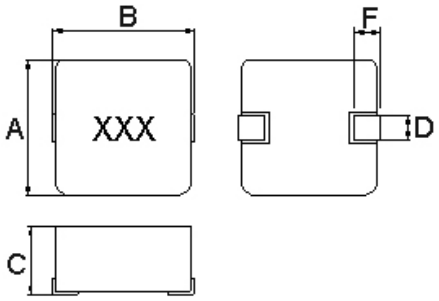
Applications

- High density DC/DC converters
- POL converters
- High current VRM/VRD for notebook / Server / desktop CPUs
- High speed charger
- For thickness less than 1.2mm, suitable for low profile applications e.g., Ultra thin NB/Monitor/TV/Tablet

Product Identification



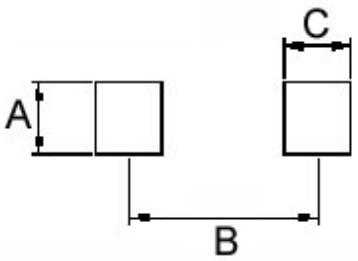
Shape and Dimensions



Dimensions in mm

TYPE	A	B Max	C Max	D	F
04012	4.1±0.2	4.6±0.2	1.2	1.5±0.3	1.0±0.5
04015	4.1±0.2	4.6±0.2	1.5	1.5±0.3	1.0±0.5
04020	4.1±0.2	4.6±0.2	2.0	1.5±0.3	1.0±0.5
05012	5.4±0.35	5.7±0.2	1.2	2.0±0.3	1.5±0.3
05015	5.4±0.35	5.7±0.2	1.5	2.0±0.3	1.5±0.3
05018	5.4±0.35	5.7±0.2	1.8	2.0±0.3	1.5±0.3
05020	5.4±0.35	5.7±0.2	1.8±0.2	2.0±0.3	1.5±0.3
05030	5.4±0.35	5.7±0.2	3.0	2.0±0.3	1.5±0.3
06012	6.6±0.2	7.3	1.2±0.2	2.9	1.6±0.5
06015	6.6±0.2	7.3	1.3±0.2	2.9	1.6±0.5
06018	6.6±0.2	7.3	1.6±0.2	2.9	1.6±0.5
06024	6.6±0.2	7.3	2.4	2.9	1.6±0.5
06030	6.6±0.2	7.3	3.0	2.9	1.6±0.5
10030	10.1±0.3	11.6	3.0	3.0	2.5±0.5
10040	10.1±0.3	11.6	4.0	3.0	2.5±0.5
12035	12.6±0.2	13.8	3.5	3.7	2.7±0.7
12050	12.6±0.2	13.8	5.0	3.7	2.7±0.7
12060	12.6±0.2	13.8	6.0	3.7	2.7±0.7

Recommended Pattern



Dimensions in mm

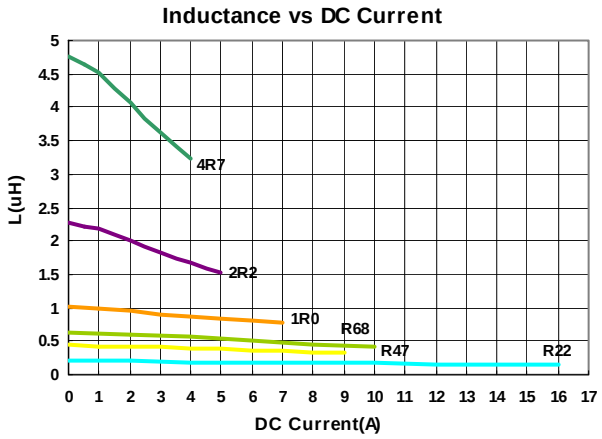
TYPE	A	B	C
04012	2.5	3.7	1.5
04015	2.5	3.7	1.5
04020	2.5	3.7	1.5
05012	2.5	4.1	1.9
05015	2.5	4.1	1.9
05018	2.5	4.1	1.9
05020	2.5	4.1	1.9
05030	2.5	4.1	1.9
06012	3.5	6.05	2.35
06015	3.5	6.05	2.35
06018	3.5	6.05	2.35
06024	3.5	6.05	2.35
06030	3.5	6.05	2.35
10030	4.0	9.5	3.5
10040	4.0	9.5	3.5
12035	5.0	10.5	4.0
12050	5.0	10.5	4.0
12060	5.0	10.5	4.0

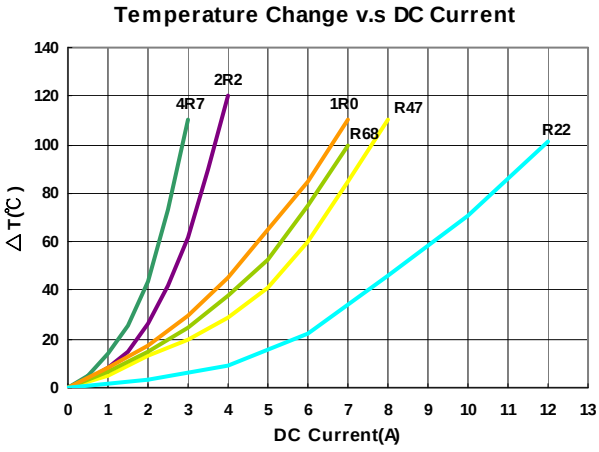
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCI04012-R22M-R8	0.22	20	100	8.5	11.5	12
MHCI04012-R47M-R8	0.47	20	100	5.0	7.0	25
MHCI04012-R68M-R8	0.68	20	100	4.5	6.0	36
MHCI04012-1R0M-R8	1.0	20	100	4.2	5.2	47
MHCI04012-2R2M-R8	2.2	20	100	2.75	3.5	83.5
MHCI04012-4R7M-R8	4.7	20	100	1.8	2.8	195

- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer





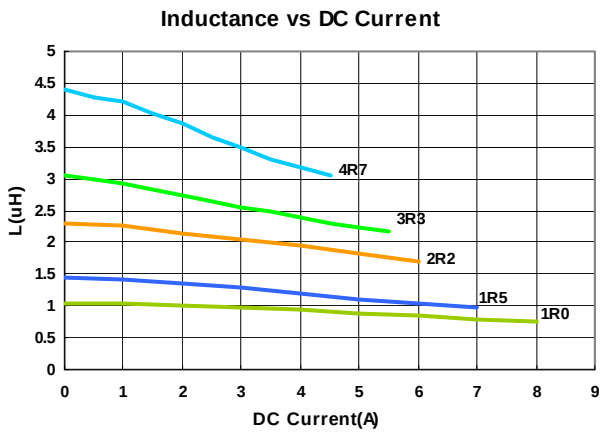
CHILISIN ELECTRONICS CORP.

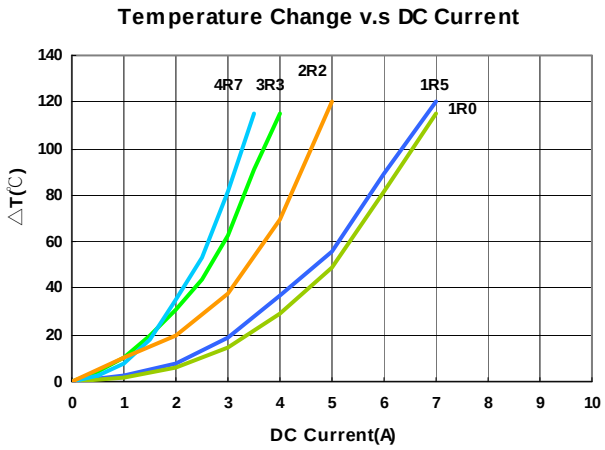
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCI04015-1R0M-R8	1.0	20	100	4	7	42
MHCI04015-1R5M-R8	1.5	20	100	3.5	6	50
MHCI04015-2R2M-R8	2.2	20	100	3	5	79
MHCI04015-3R3M-R8	3.3	20	100	2.3	4.5	132
MHCI04015-4R7M-R8	4.7	20	100	2	4	146

- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer



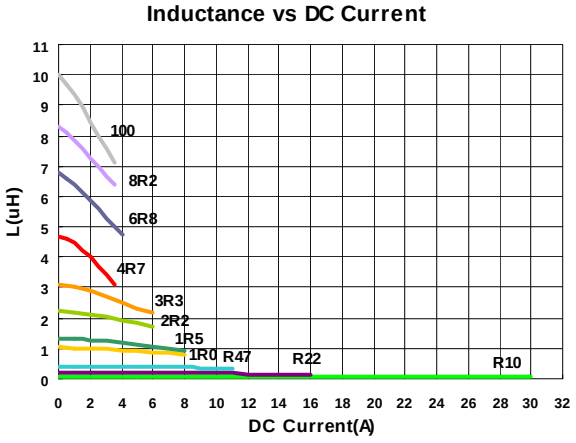


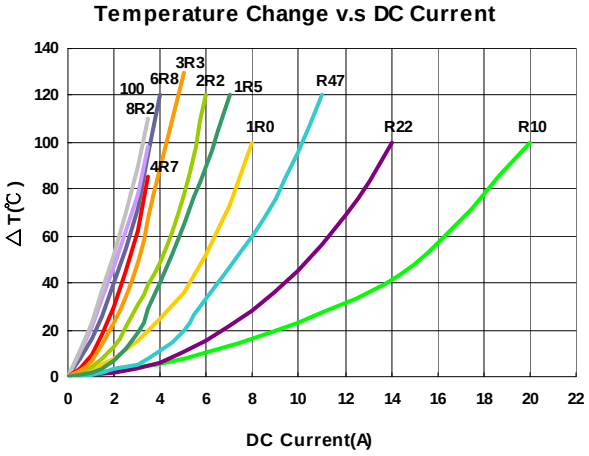
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCI04020-R10M-R8	0.10	20	100	12.0	25	4
MHCI04020-R22M-R8	0.22	20	100	9.0	12.5	6.6
MHCI04020-R47M-R8	0.47	20	100	7.0	9.5	14
MHCI04020-1R0M-R8	1.0	20	100	4.5	7.0	27
MHCI04020-1R5M-R8	1.5	20	100	4.0	6.0	46
MHCI04020-2R2M-R8	2.2	20	100	3.0	5.0	58
MHCI04020-3R3M-R8	3.3	20	100	2.5	4.0	87
MHCI04020-4R7M-R8	4.7	20	100	2.2	3.0	105
MHCI04020-6R8M-R8	6.8	20	100	2.0	2.5	135
MHCI04020-8R2M-R8	8.2	20	100	2.0	2.5	216
MHCI04020-100M-R8	10	20	100	1.6	2.0	258

- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer





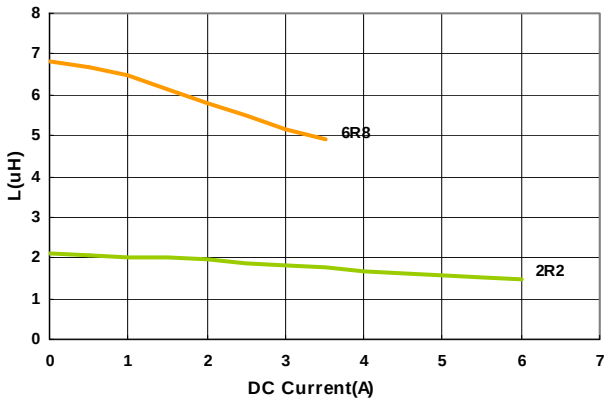
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCI05012-2R2M-R8A	2.2	20	100	3.5	4	76
MHCI05012-6R8M-R8A	6.8	20	100	2.0	2.3	250

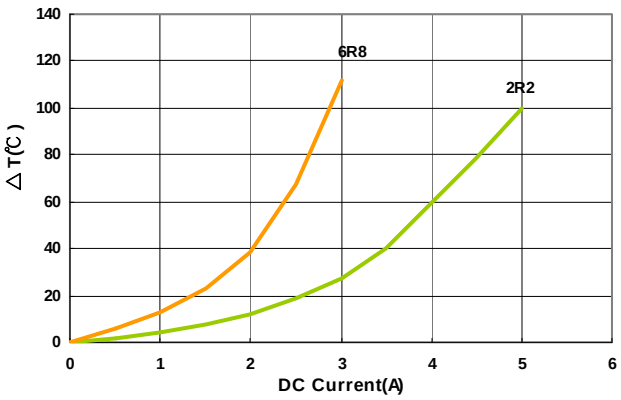
- **Irms** current (A) that will cause an approximate ΔT of 40℃
- **Isat** current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer

Inductance vs DC Current



Temperature Change v.s DC Current

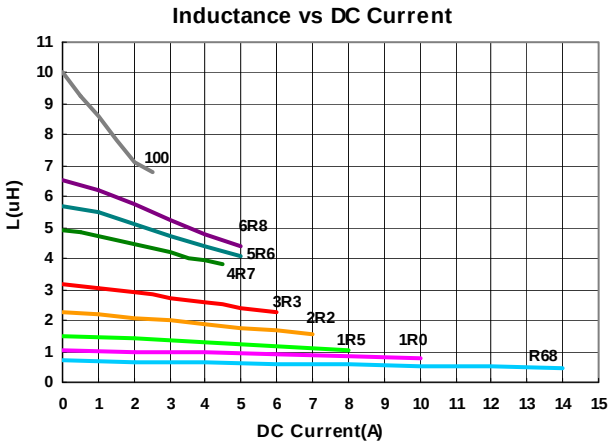


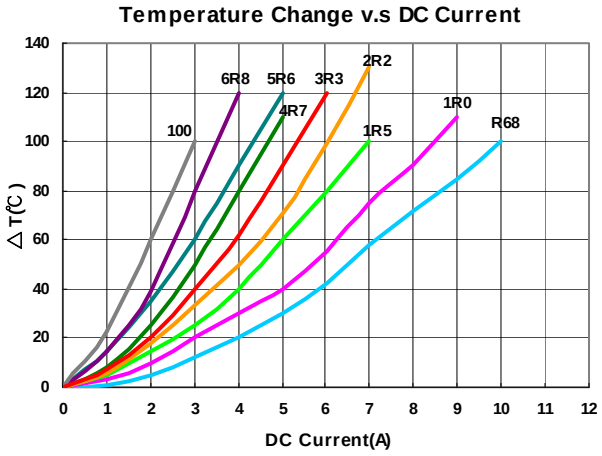
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCI05015-R68M-R8	0.68	20	100	6.0	10	23
MHCI05015-1R0M-R8	1.0	20	100	5.0	8.0	33
MHCI05015-1R5M-R8	1.5	20	100	4.0	6.0	50
MHCI05015-2R2M-R8	2.2	20	100	3.3	6.0	68
MHCI05015-3R3M-R8	3.3	20	100	3.0	5.0	84
MHCI05015-4R7M-R8	4.7	20	100	2.5	4.0	135
MHCI05015-5R6M-R8	5.6	20	100	2.2	3.5	175
MHCI05015-6R8M-R8	6.8	20	100	2.0	3.0	192
MHCI05015-100M-R8	10	20	100	1.5	2.0	195

- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer





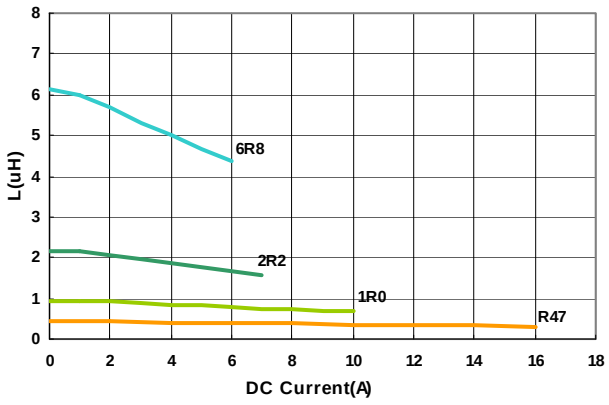
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCI05018-R47M-R8A	0.47	20	100	10.5	15.5	9.0
MHCI05018-1R0M-R8A	1.0	20	100	8.0	9.0	17
MHCI05018-2R2M-R8A	2.2	20	100	5.0	6.5	35
MHCI05018-6R8M-R8A	6.8	20	100	2.8	3.4	120

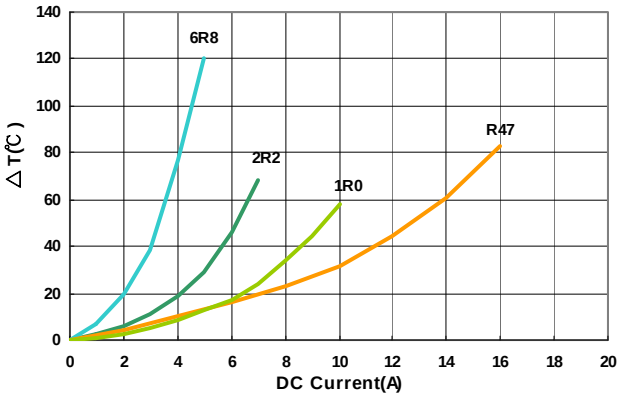
- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer

Inductance vs DC Current



Temperature Change v.s DC Current



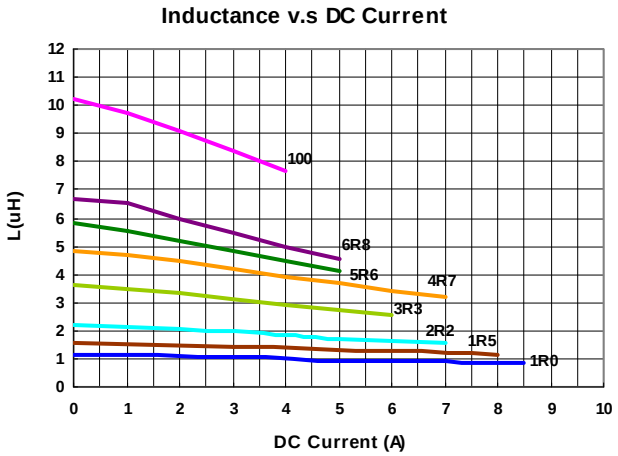
CHILISIN ELECTRONICS CORP.

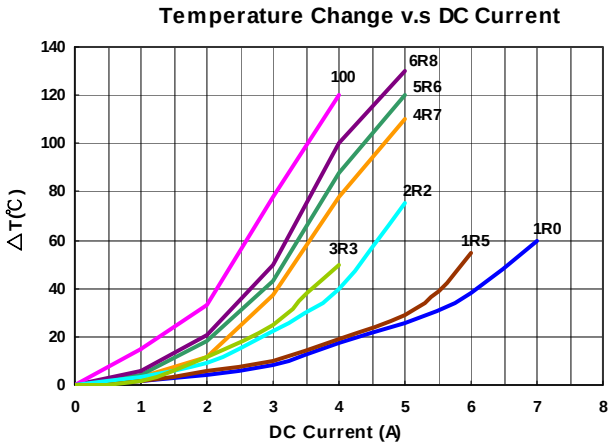
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCI05020-1R0M-R8	1.0	20	100	6.0	7.0	30
MHCI05020-1R5M-R8	1.5	20	100	5.5	6.5	35
MHCI05020-2R2M-R8	2.2	20	100	4.0	6.0	45
MHCI05020-3R3M-R8	3.3	20	100	3.5	5.5	60
MHCI05020-4R7M-R8	4.7	20	100	3.0	5.0	90
MHCI05020-5R6M-R8	5.6	20	100	2.8	4.5	120
MHCI05020-6R8M-R8	6.8	20	100	2.8	4.5	125
MHCI05020-100M-R8	10	20	100	2.3	4.0	180

- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer



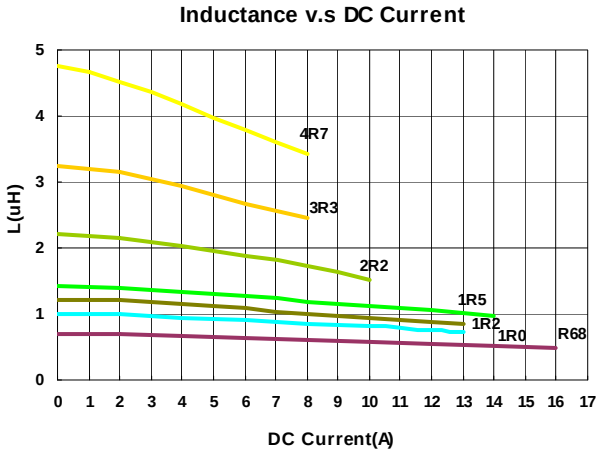


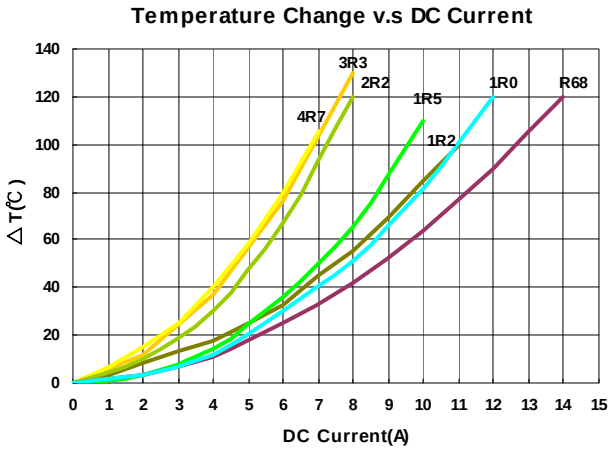
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCI05030-R68M-R8	0.68	20	100	8.0	14	12
MHCI05030-1R0M-R8	1.0	20	100	7.0	11	15
MHCI05030-1R2M-R8	1.2	20	100	6.5	11	15
MHCI05030-1R5M-R8	1.5	20	100	6.0	10	25
MHCI05030-2R2M-R8	2.2	20	100	5.0	8	35
MHCI05030-3R3M-R8	3.3	20	100	4.5	7	46
MHCI05030-4R7M-R8	4.7	20	100	4.0	6	60

- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer





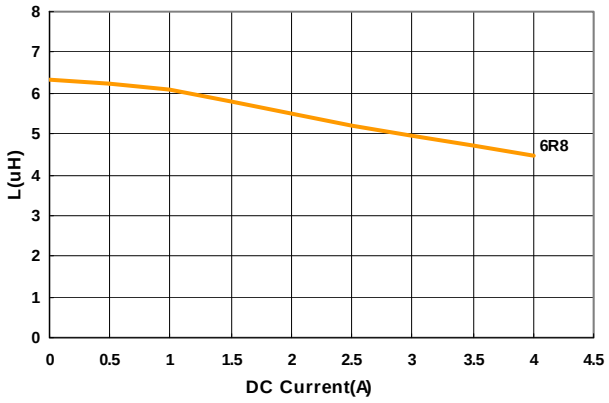
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCI06012-6R8M-R8A	6.8	20	100	2.2	2.8	210

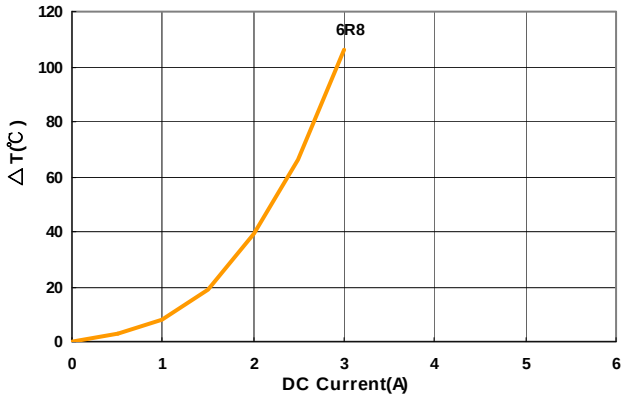
- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer

Inductance vs DC Current



Temperature Change v.s DC Current



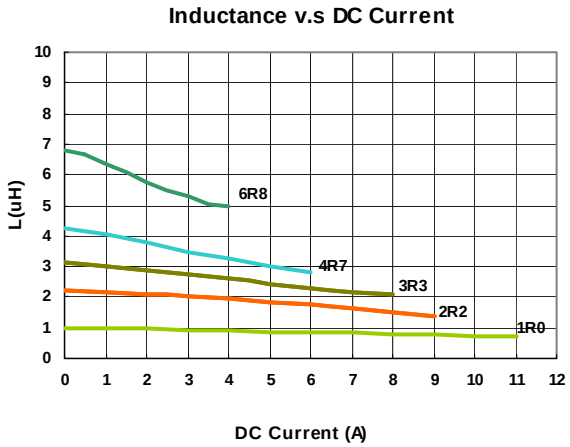
CHILISIN ELECTRONICS CORP.

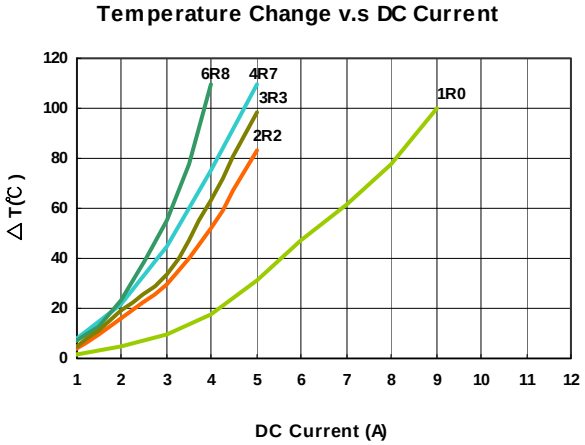
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCI06015-1R0M-R8	1.0	20	100	5.5	9.0	25
MHCI06015-2R2M-R8	2.2	20	100	3.5	6.0	54
MHCI06015-3R3M-R8	3.3	20	100	3.3	5.5	63
MHCI06015-4R7M-R8	4.7	20	100	3.2	4.5	105
MHCI06015-6R8M-R8	6.8	20	100	2.5	4.0	140

- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer





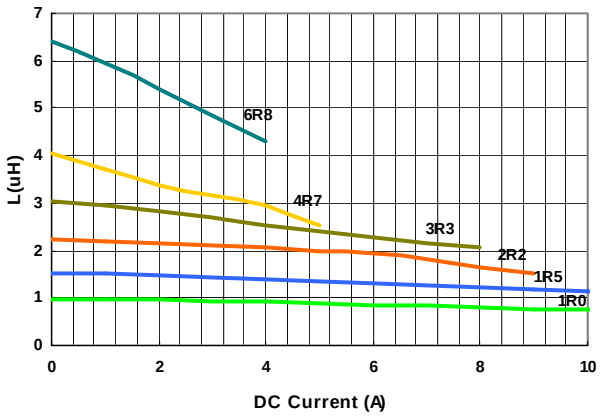
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCI06018-1R0M-R8	1.0	20	100	7.0	10.0	17
MHCI06018-1R5M-R8	1.5	20	100	5.0	10.5	28
MHCI06018-2R2M-R8	2.2	20	100	5.0	8.0	35
MHCI06018-3R3M-R8	3.3	20	100	3.5	8.0	60
MHCI06018-4R7M-R8	4.7	20	100	3.5	5.0	72
MHCI06018-6R8M-R8	6.8	20	100	2.8	3.5	110

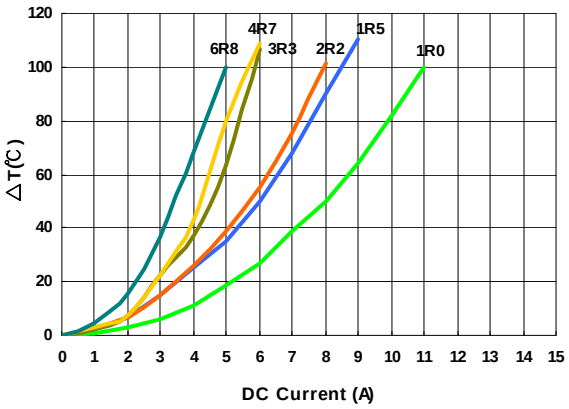
- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer

Inductance v.s DC Current



Temperature Change v.s DC Current



CHILISIN ELECTRONICS CORP.

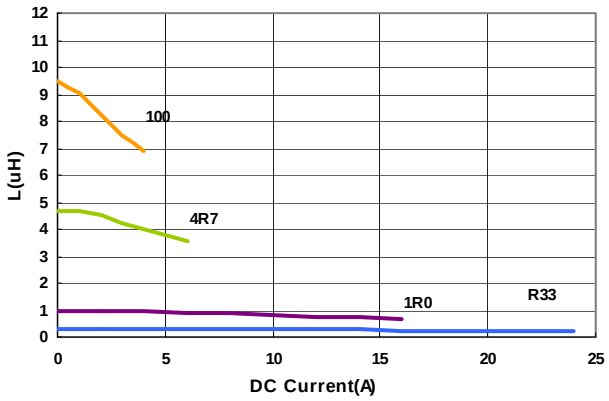
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCI06018-R33M-R8A	0.33	20	100	12	22	6.8
MHCI06018-1R0M-R8A	1.0	20	100	7.0	14	17
MHCI06018-4R7M-R8A	4.7	20	100	3.5	5	70
MHCI06018-100M-R8A	10	20	100	2.3	2.5	155

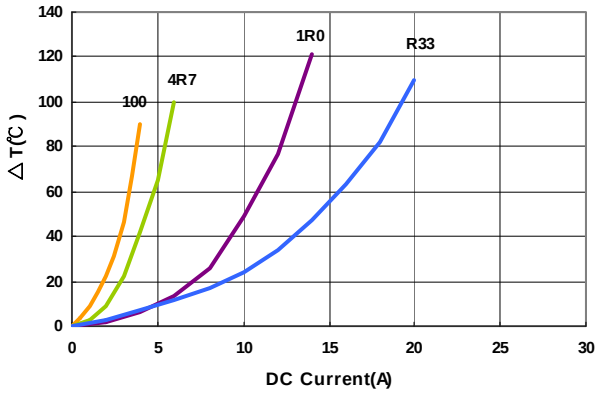
- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer

Inductance vs DC Current



Temperature Change v.s DC Current



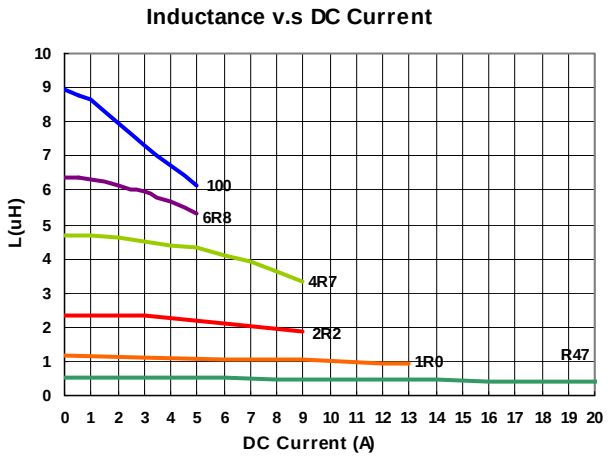
CHILISIN ELECTRONICS CORP.

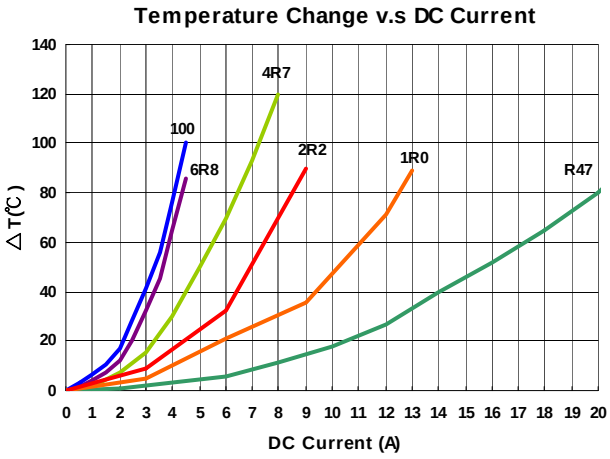
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCI06024-R47M-R8	0.47	20	100	13.5	21	6.5
MHCI06024-1R0M-R8	1.0	20	100	9.0	16	13.5
MHCI06024-2R2M-R8	2.2	20	100	6.0	12	28
MHCI06024-4R7M-R8	4.7	20	100	4.5	8	50
MHCI06024-6R8M-R8	6.8	20	100	3.5	4	66
MHCI06024-100M-R8	10	20	100	3.1	4	101

- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer





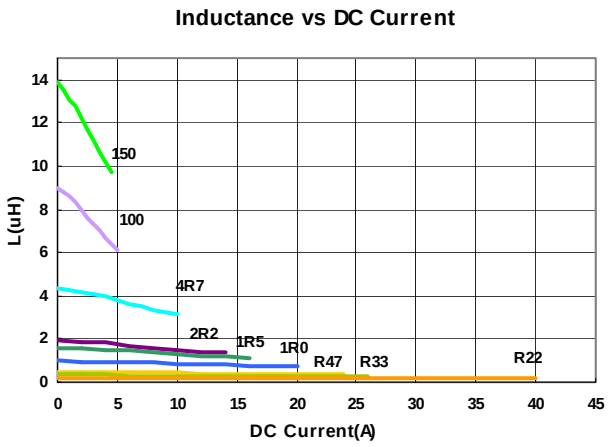
CHILISIN ELECTRONICS CORP.

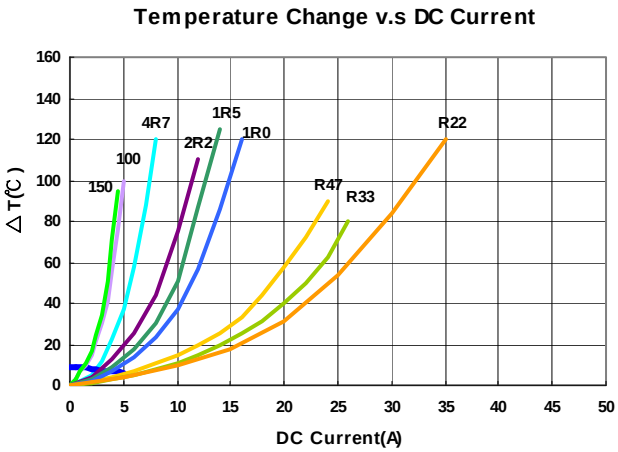
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCI06024-R22M-R8A	0.22	20	100	21	34	3.2
MHCI06024-R33M-R8A	0.33	20	100	18	24.5	4.1
MHCI06024-R47M-R8A	0.47	20	100	15	22	5.1
MHCI06024-1R0M-R8A	1.0	20	100	9	16	13.5
MHCI06024-1R5M-R8A	1.5	20	100	9	15	20
MHCI06024-2R2M-R8A	2.2	20	100	7	14	28
MHCI06024-4R7M-R8A	4.7	20	100	5	10	50
MHCI06024-100M-R8A	10	20	100	3.1	4.0	101
MHCI06024-150M-R8A	15	20	100	2.5	3.3	160

- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer





CHILISIN ELECTRONICS CORP.

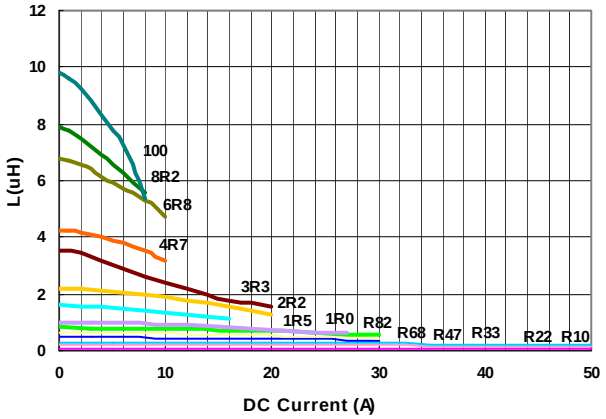
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCI06030-R10M-R8	0.10	20	100	37	45	1.5
MHCI06030-R22M-R8	0.22	20	100	23	40	2.8
MHCI06030-R33M-R8	0.33	20	100	20	33	4.2
MHCI06030-R47M-R8	0.47	20	100	16.5	27	5.5
MHCI06030-R68M-R8	0.68	20	100	15	24	6.3
MHCI06030-R82M-R8	0.82	20	100	13	23	8.0
MHCI06030-1R0M-R8	1.0	20	100	12	22	10
MHCI06030-1R5M-R8	1.5	20	100	9.5	18	15
MHCI06030-2R2M-R8	2.2	20	100	8.5	14	20
MHCI06030-3R3M-R8	3.3	20	100	6.0	12	35
MHCI06030-4R7M-R8	4.7	20	100	5.5	9	40
MHCI06030-6R8M-R8	6.8	20	100	4.5	8	60
MHCC06030-8R2M-R7	8.2	20	100	4.5	6	60
MHCC06030-100M-R7	10	20	100	4.0	5.5	68

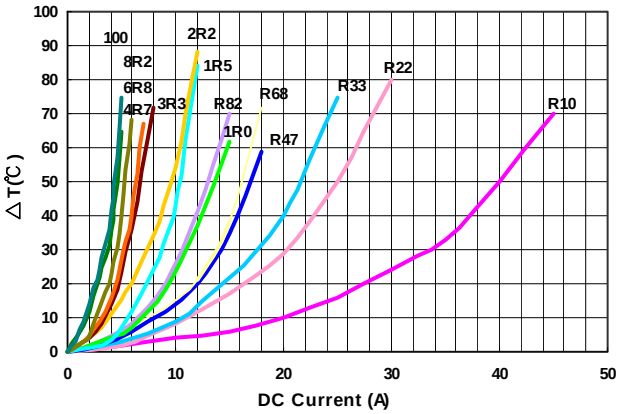
- **Irms** DC current (A) that will cause an approximate △T of 40°C
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer

Inductance v.s DC Current



Temperature Change v.s DC Current



CHILISIN ELECTRONICS CORP.

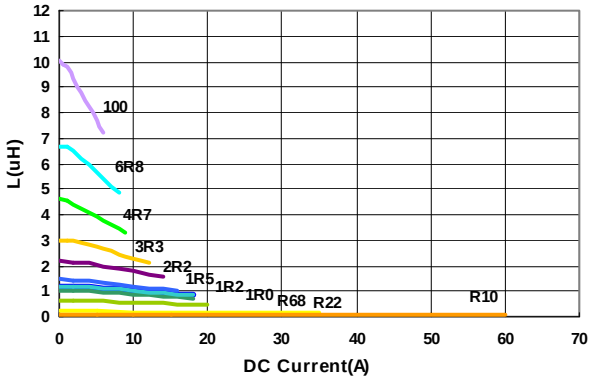
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCI06030-R10M-R8A	0.10	20	100	32.5	60	1.7
MHCI06030-R22M-R8A	0.22	20	100	23	34	3.0
MHCI06030-R68M-R8A	0.68	20	100	16	17	5.3
MHCI06030-1R0M-R8A	1.0	20	100	12	15	7.4
MHCI06030-1R2M-R8A	1.2	20	100	10	14	10
MHCI06030-1R5M-R8A	1.5	20	100	10	14	12.1
MHCI06030-2R2M-R8A	2.2	20	100	8	10	15
MHCI06030-3R3M-R8A	3.3	20	100	6.5	9.5	22
MHCI06030-4R7M-R8A	4.7	20	100	5.5	6.5	33
MHCI06030-6R8M-R8A	6.8	20	100	4.5	6	50
MHCI06030-100M-R8A	10	20	100	4	5.5	68

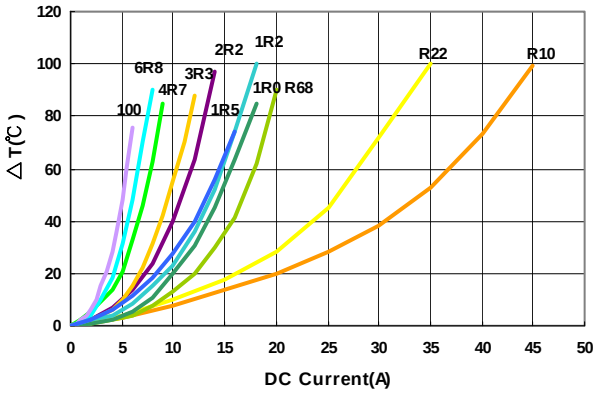
- **Irms** DC current (A) that will cause an approximate △T of 40°C
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer

Inductance vs DC Current



Temperature Change v.s DC Current



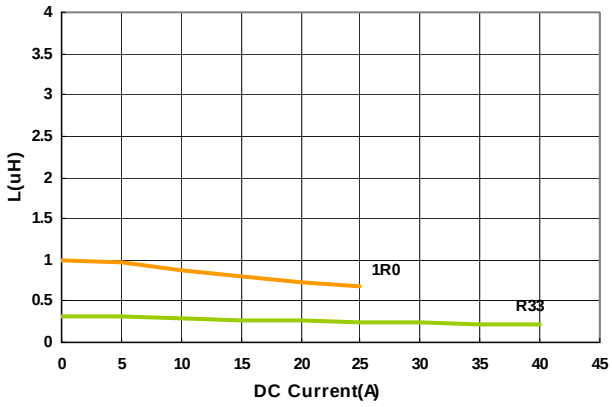
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCC10030-R33M-R7A	0.33	20	100	23	32	1.6
MHCC10030-1R0M-R7A	1.0	20	100	15	21	6.0

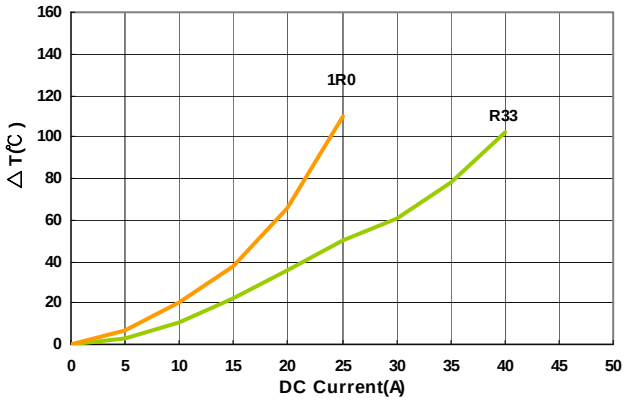
- **Irms** current (A) that will cause an approximate ΔT of 40℃
- **Isat** current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer

Inductance vs DC Current



Temperature Change v.s DC Current



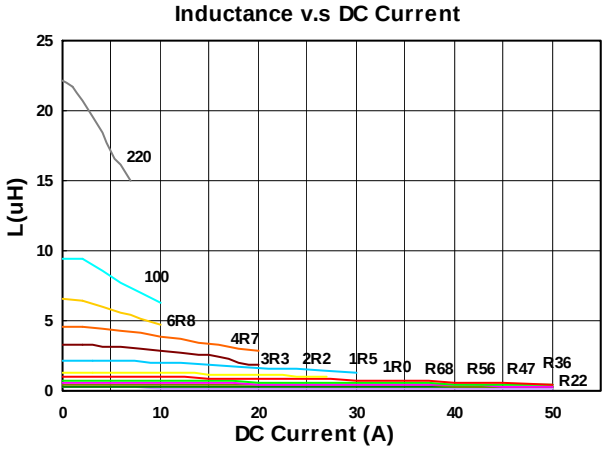
CHILISIN ELECTRONICS CORP.

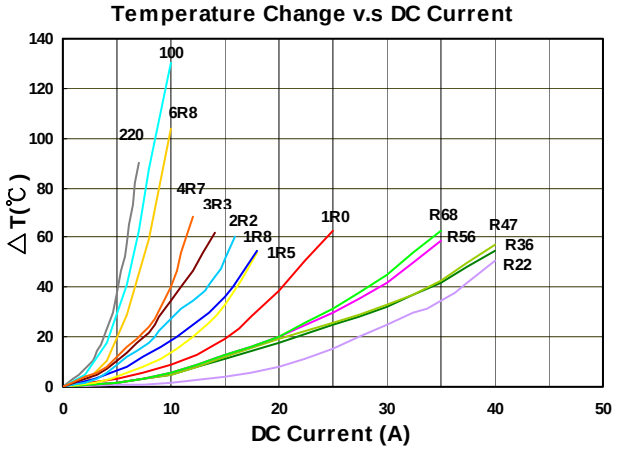
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCC10040-R22M-R7	0.22	20	100	35	45	0.6
MHCC10040-R36M-R7	0.36	20	100	34	42	1.2
MHCC10040-R47M-R7	0.47	20	100	33	38	1.2
MHCC10040-R56M-R7	0.56	20	100	27	32	1.55
MHCC10040-R68M-R7	0.68	20	100	27	30	1.55
MHCC10040-1R0M-R7	1.0	20	100	20	26	3.1
MHCC10040-1R5M-R7	1.5	20	100	16	22	4.2
MHCC10040-1R8M-R7	1.8	20	100	15.3	16	5
MHCC10040-2R2M-R7	2.2	20	100	14	16	7
MHCC10040-3R3M-R7	3.3	20	100	11	12	13.2
MHCI10040-4R7M-R8	4.7	20	100	10	13	16.5
MHCC10040-6R8M-R7	6.8	20	100	6	10	25
MHCC10040-8R2M-R7	8.2	20	100	6	9	30
MHCC10040-100M-R7	10	20	100	6.5	7	30
MHCC10040-150M-R7	15	20	100	5	6	53
MHCC10040-220M-R7	22	20	100	4.5	4.5	64

- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer





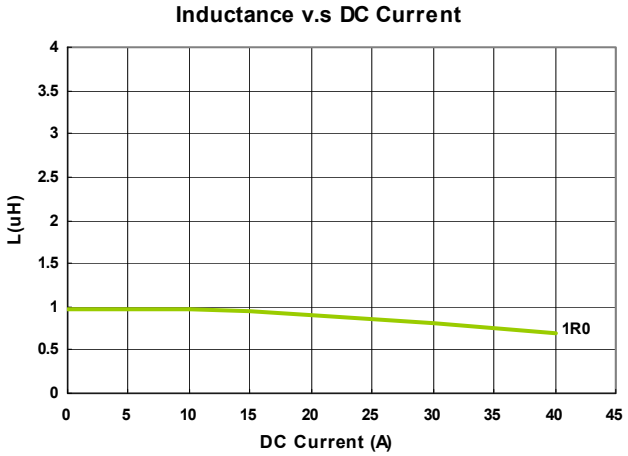
CHILISIN ELECTRONICS CORP.

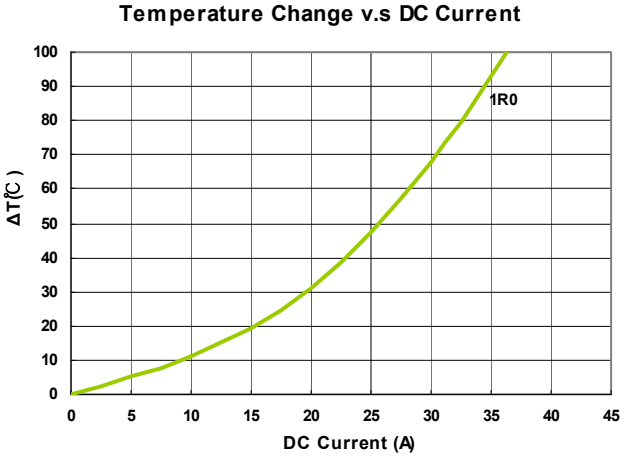
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCC12035-1R0M-R7	1.0	20	100	27	28	2.5

- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 20%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer





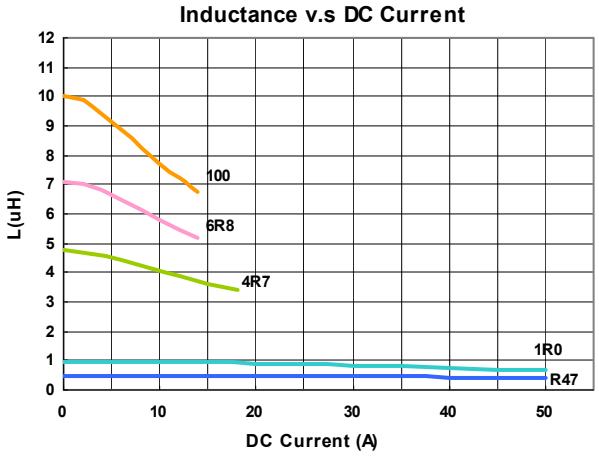
CHILISIN ELECTRONICS CORP.

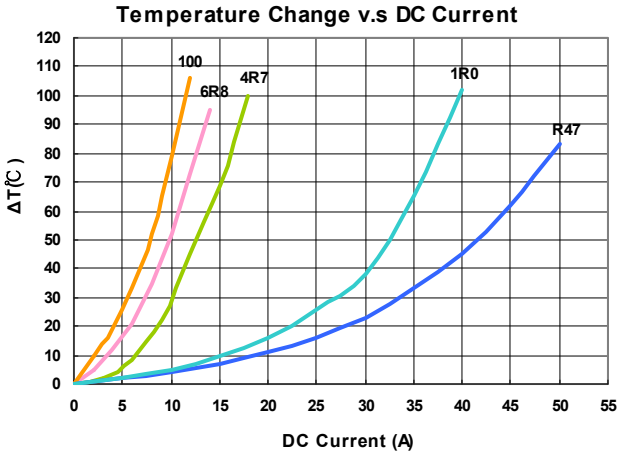
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCC12050-R47M-R7	0.47	20	100	37	46	1.2
MHCC12050-1R0M-R7	1.0	20	100	29	37	2.5
MHCC12050-4R7M-R7	4.7	20	100	11	16	11.5
MHCC12050-6R8M-R7	6.8	20	100	9	14	22
MHCC12050-100M-R7	10	20	100	7	13	35

- **Irms** current (A) that will cause an approximate ΔT of 40℃
- **Isat** current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer





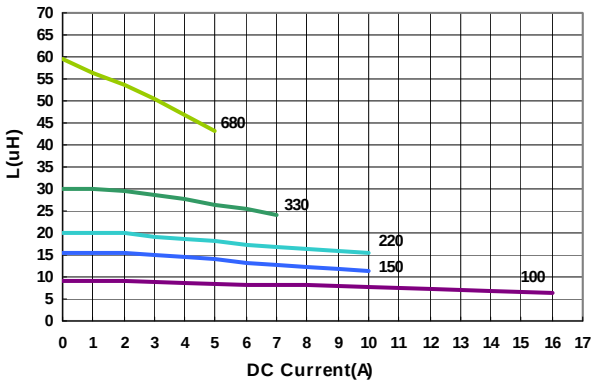
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCC12060-100M-R7A	10	20	100	10	12.5	20.7
MHCC12060-150M-R7A	15	20	100	6.0	9.0	29.0
MHCC12060-220M-R7A	22	20	100	5.0	7.5	39.5
MHCC12060-330M-R7A	33	20	100	4.0	6.0	75
MHCC12060-680M-R7A	68	20	100	3.0	4.5	140

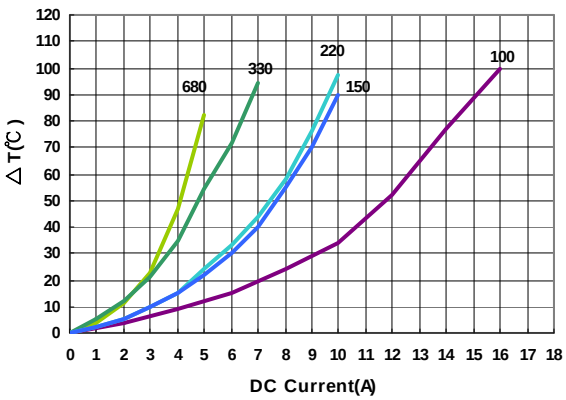
- **Irms** current (A) that will cause an approximate ΔT of 40℃
- **Isat** current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer

Inductance vs DC Current



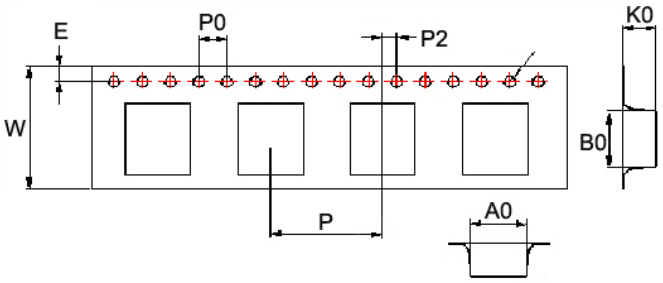
Temperature Change v.s DC Current



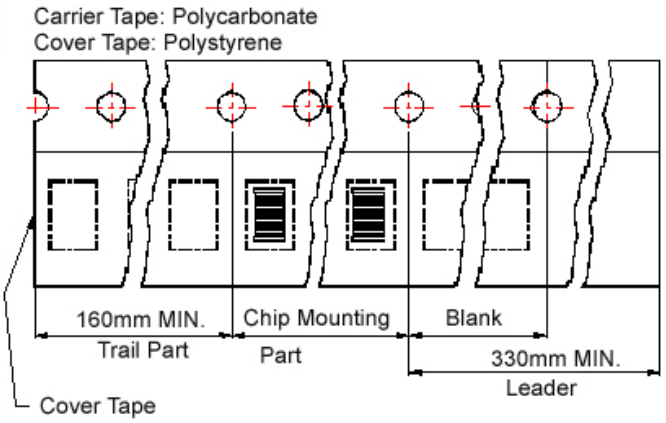
CHILISIN ELECTRONICS CORP.

Packaging Specifications

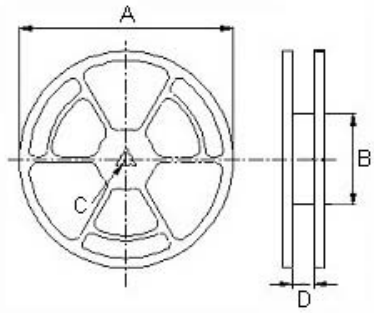
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
04012	4.6	5.0	1.5	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
04015	4.4	4.9	1.8	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
04020	4.3	4.9	2.4	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
05012	5.9	6.2	1.5	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
05015	5.9	6.2	1.9	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
05018	5.9	6.2	2.2	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
05020	5.9	6.2	2.4	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
05030	5.9	6.2	3.4	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
06012	6.9	7.6	1.6	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
06015	6.9	7.6	1.9	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
06018	6.9	7.6	2.2	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
06024	6.9	7.6	2.9	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
06030	6.9	7.6	3.4	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
10030	10.6	11.7	3.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500
10040	10.6	11.7	4.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500
12035	13	14	3.7	1.55	1.75	24	16	4	2	330	100	13	24.4	500
12050	13	14	5.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500
12060	13	14	6.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500

MHCB Series

MHCB series is designed for low profile type with low RDC and ultra large current. Its molded magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

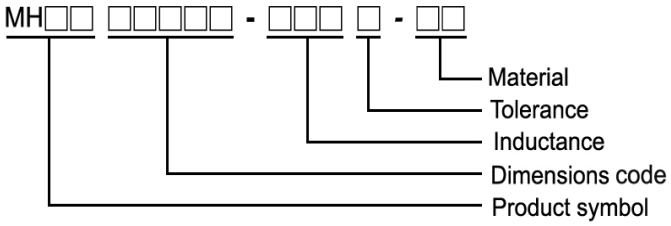
Features

- RoHS compliant
- Low profile type
- Shielded construction
- Ultra low buzz noise due to molding construction

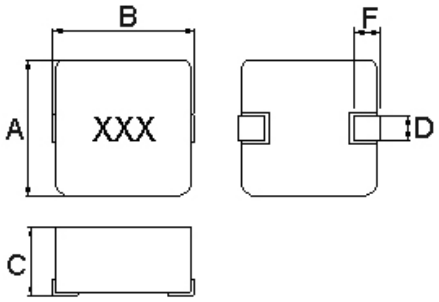
Applications

- High density DC/DC converters
- POL converters
- High current VRM/VRD for notebook / Server / desktop CPUs
- High speed charger
- For thickness less than 1.2mm, suitable for low profile applications e.g., Ultra thin NB/Monitor/TV/Tablet

Product Identification



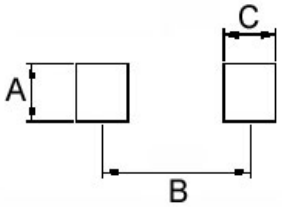
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	F
06030	6.6±0.2	6.95±0.35	2.8±0.2	3.0±0.3	1.6±0.5

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
06030	3.5	6.05	2.35

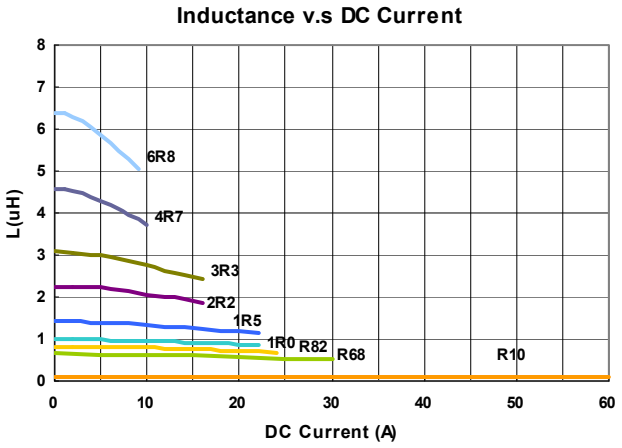
CHILISIN ELECTRONICS CORP.

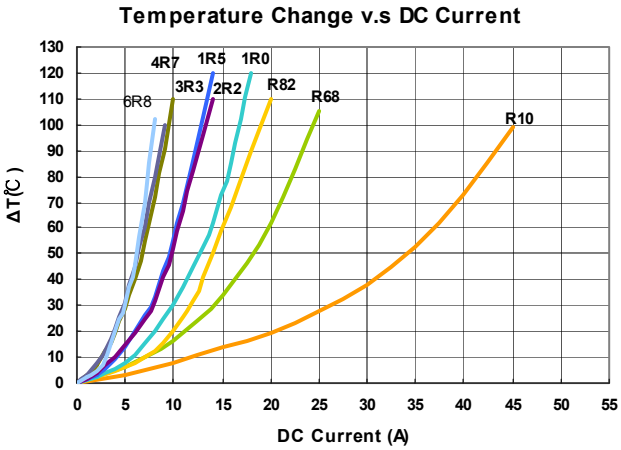
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHCB06030-R10M-C1	0.10	20	100	32.5	60	1.7
MHCB06030-R68M-C1	0.68	20	100	15.5	25	5.5
MHCB06030-R82M-C1	0.82	20	100	13.0	24	8.0
MHCB06030-1R0M-C1	1.0	20	100	11.0	22	10
MHCB06030-1R5M-C1	1.50	20	100	9.0	18	15
MHCB06030-2R2M-C1	2.2	20	100	8.0	14	20
MHCB06030-3R3M-C1	3.3	20	100	6.0	13.5	30
MHCB06030-4R7M-C1	4.7	20	100	5.5	10.0	40
MHCB06030-6R8M-C1	6.8	20	100	4.5	8.0	60

- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 20%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

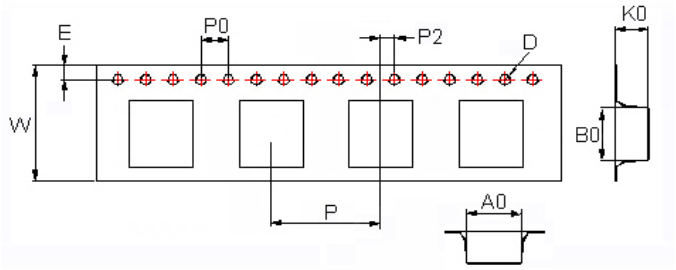
Test Instruments：WK3260B Impedance / Material Analyzer



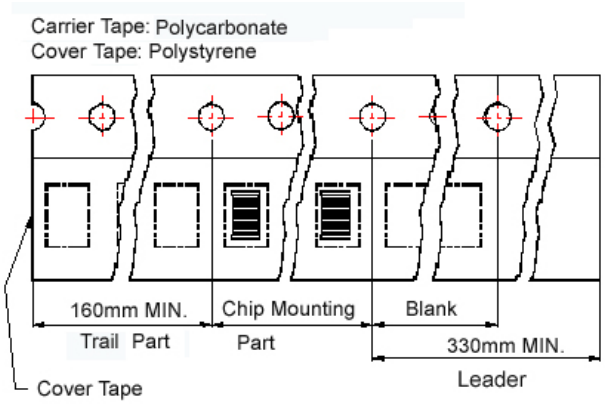


Packaging Specifications

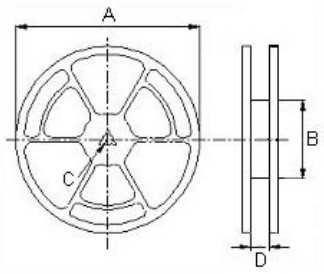
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
06030	6.9	7.6	3.4	1.55	1.75	16	12	4	2	330	100	13	17.4	1000

MHSC Series

MHSC series is designed for low profile type with low DCR and ultra large current, especially for height limited boards. Its molded magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

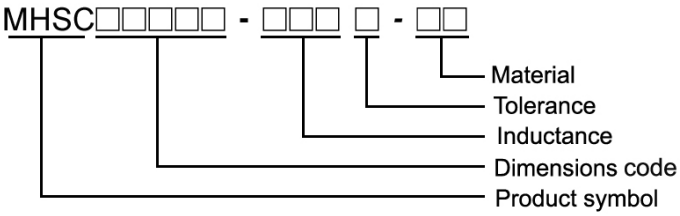
Features

- RoHS compliant
- Ultra low profile on board
- Shielded construction
- Ultra low buzz noise due to molding construction

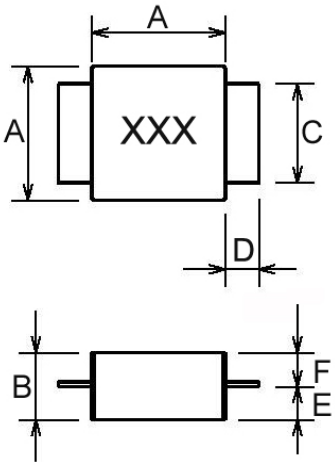
Applications

- High density DC/DC converter in height limited board
- POL converters
- High current VRM/VDR for notebook / server / desktop CPU
- High current DC/DC converter in distributed power system
- High speed charger

Product Identification



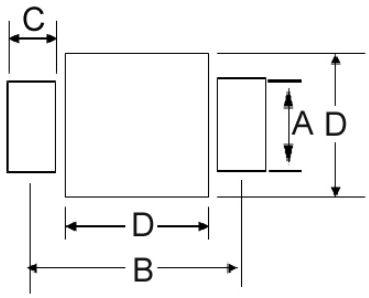
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E	F
04020	4.2±0.2	$2.0^{+0.2}_{-0.3}$	1.5±0.2	1.2±0.3	1.2	1.0
06022	6.6±0.2	$2.2^{+0.2}_{-0.3}$	3.0±0.2	1.5±0.3	1.4	1.0
06036	6.6±0.2	$3.6^{+0.2}_{-0.3}$	3.0±0.2	1.5±0.3	2.3	1.5
08036	8.0±0.2	$3.6^{+0.2}_{-0.3}$	6.0±0.2	2.0±0.3	2.3	1.3±0.2

Recommended Pattern



Dimensions in mm

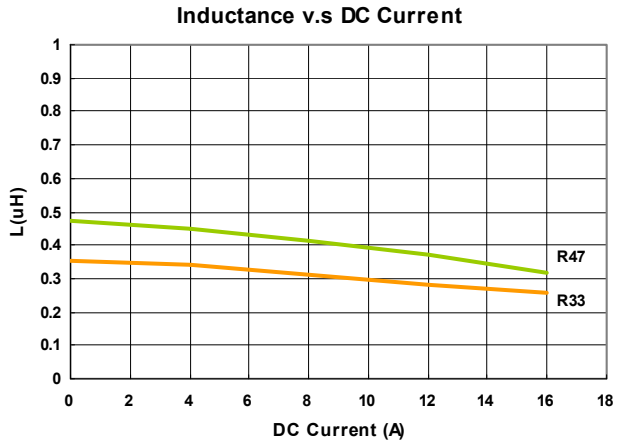
TYPE	A	B	C	D
04020	2.0	6.5	1.8	4.5
06022	3.5	9.5	2.2	6.9
06036	3.5	9.5	2.2	6.9
08036	6.0	11.9	3.0	8.4

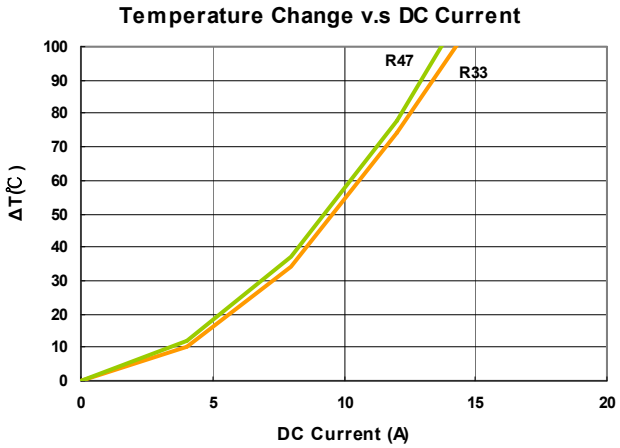
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHSC04020-R33M-R8	0.33	20	100	8.5	16	10
MHSC04020-R47M-R8	0.47	20	100	8	14	11

- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer



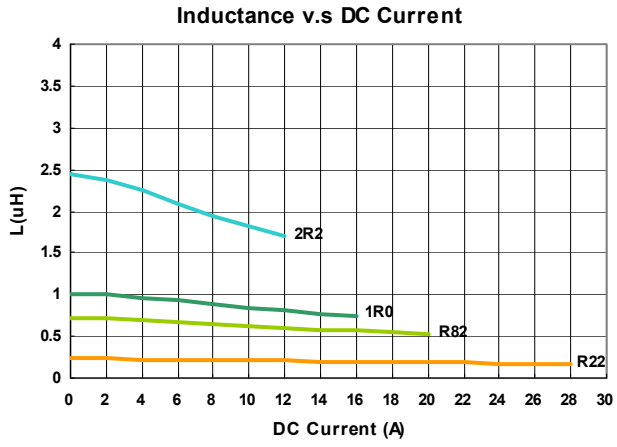


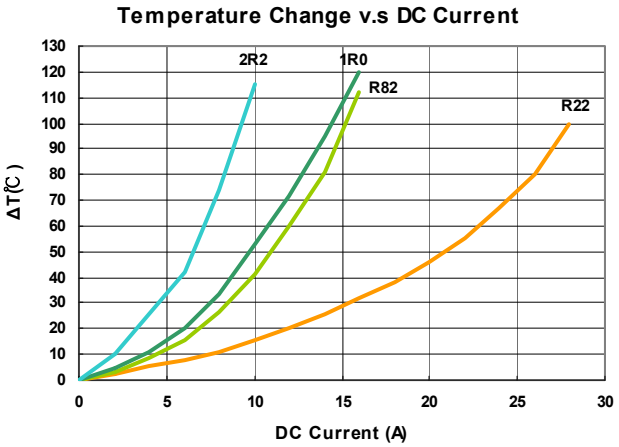
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHSC06022-R22M-R8	0.22	20	100	18	28	6
MHSC06022-R82M-R8	0.82	20	100	9.5	18	13.8
MHSC06022-1R0M-R8	1.0	20	100	9	16	15.4
MHSC06022-2R2M-R8	2.2	20	100	6	10.5	29.8

- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer



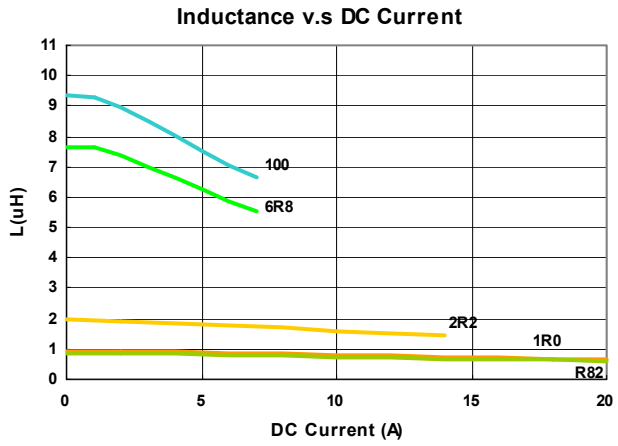


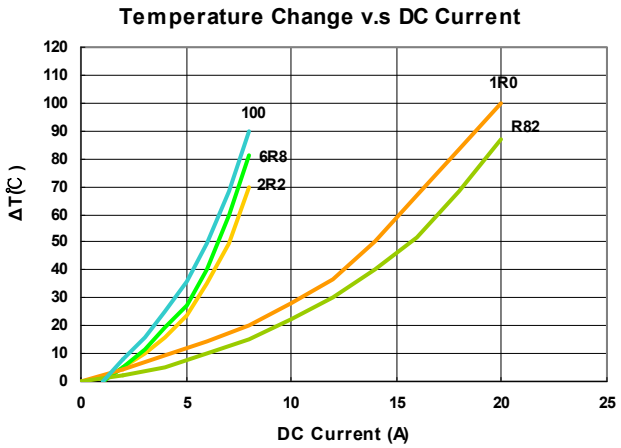
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHSC06036-R82M-R8	0.82	20	100	14	20	6.8
MHSC06036-1R0M-R8	1.0	20	100	12	19	8.2
MHSC06036-2R2M-R8	2.2	20	100	9.5	14	14.5
MHSC06036-6R8M-R8	6.8	20	100	5.5	7	44.5
MHSC06036-100M-R8	10	20	100	4.5	6.5	66

- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：WK3260B Impedance / Material Analyzer



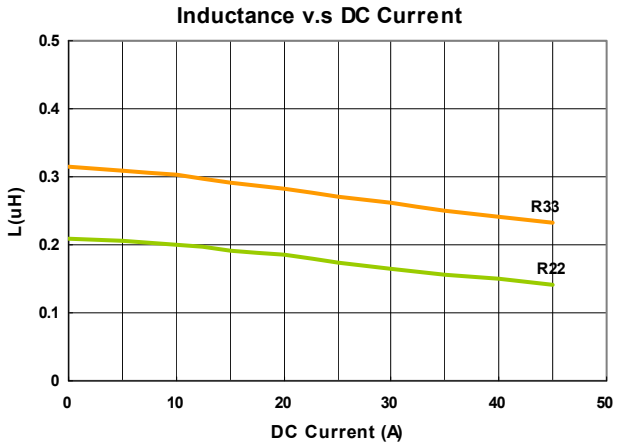


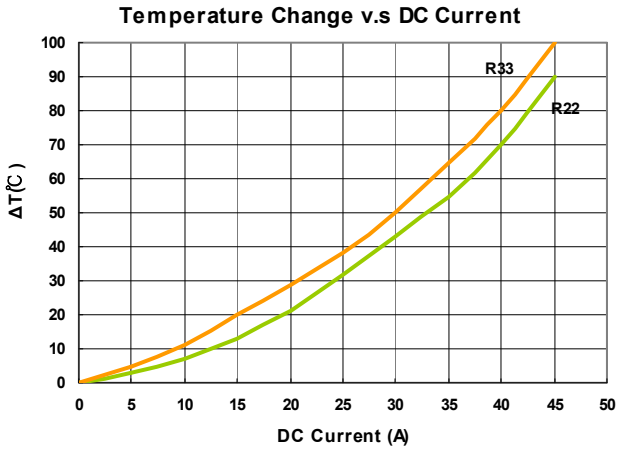
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	Irms (A)Typ.	Isat (A)Typ.	RDC (mΩ)Max
MHSC08036-R22M-R8	0.22	20	100	23	40	1.6
MHSC08036-R33M-R8	0.33	20	100	20	38	2.5

- **Irms** DC current (A) that will cause an approximate ΔT of 40℃
- **Isat** DC current (A) that will cause L to drop approximately 30%
- Tolerance：M= ±20%
- L : WK 3260B, 100KHz 0.5V
- Rdc : CHEN HWA 502
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

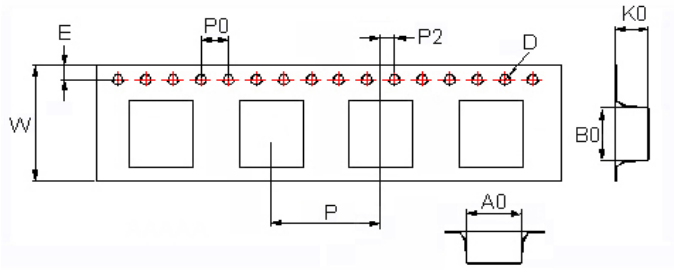
Test Instruments：WK3260B Impedance / Material Analyzer



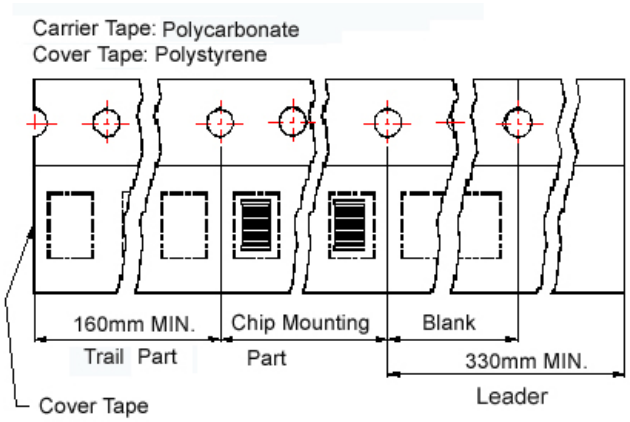


Packaging Specifications

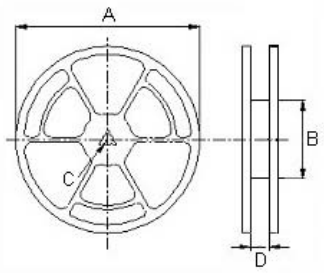
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
04020	4.6	7.2	2.4	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
06022	6.9	10.2	2.6	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
06036	6.9	10.2	4.0	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
08036	8.4	12.6	4.0	1.55	1.75	24	16	4	2	330	100	13	24.4	500

LVS Series

LVS series, an automatic assembly constructed power inductor, is shielded with magnetic resin and suitable for the portable DC-DC converter applications.

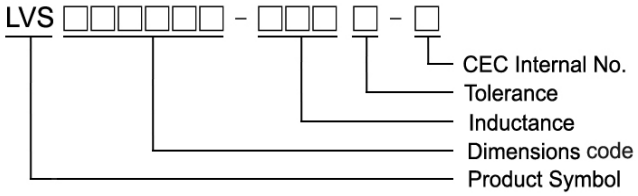
Features

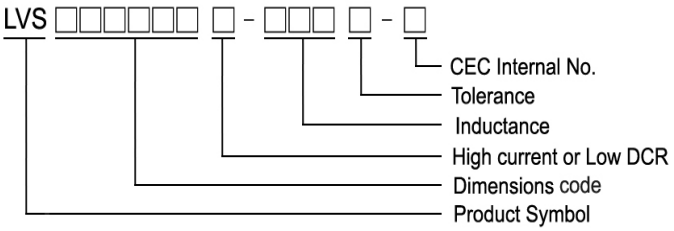
- RoHS compliant
- Highly accurate dimensions
- Terminals are highly resistant to external forces
- Highly reliable in environments of sudden temperature change and humidity
- Superior EMI characteristics with ultra low radiation comparing to conventional shielded power inductors

Applications

- LCD TV
- Monitor
- Ap router
- STB and smart phone
- Touch panel
- DSC
- Game console and other electronic devices

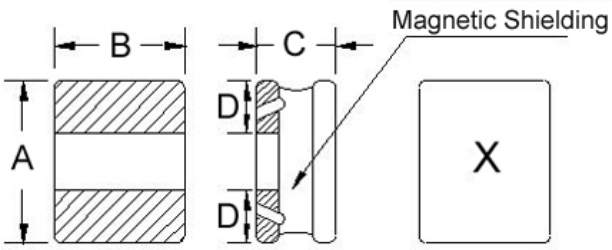
Product Identification



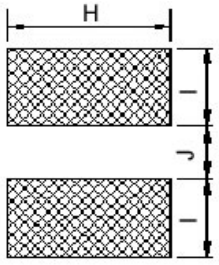


Shape and Dimensions

Figure 1



Recommended Pattern



Dimensions in mm

TYPE	FIG	A	B	C Max	D	H	I	J
LVS201610	1	2.0±0.2	1.6±0.2	1.02	0.6	1.8	0.80	0.8
LVS252010	1	2.5±0.2	2.0±0.2	1.02	0.8	2.0	0.85	0.8
LVS252012	1	2.5±0.2	2.0±0.2	1.20	0.8	2.0	0.85	0.8

Shape and Dimensions

Figure 2

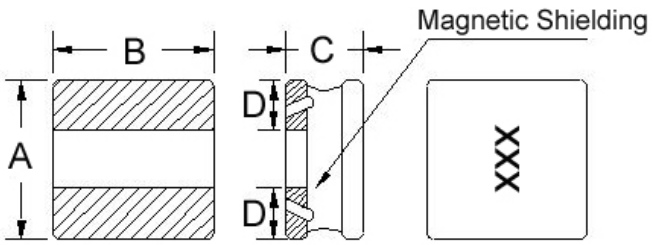
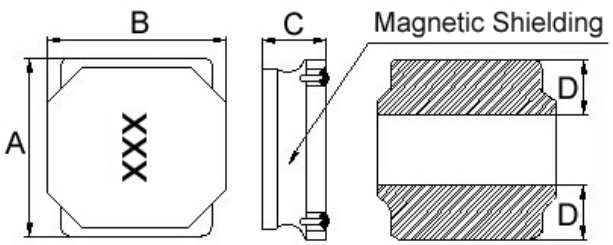


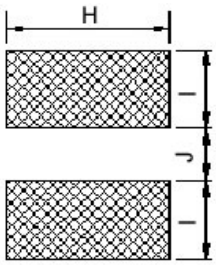
Figure 3



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
LVS303010	2	3.0±0.2	3.0±0.2	1.02Max.	1.0	3.0	1.0	1.0
LVS303010H	2	3.0±0.2	3.0±0.2	1.02Max.	1.0	3.0	1.0	1.0
LVS303012	2	3.0±0.2	3.0±0.2	1.20Max.	1.0	3.0	1.0	1.0
LVS303012H	2	3.0±0.2	3.0±0.2	1.20Max.	1.0	3.0	1.0	1.0
LVS303015	2	3.0±0.2	3.0±0.2	1.50Max.	1.0	3.0	1.0	1.0
LVS303015H	2	3.0±0.2	3.0±0.2	1.50Max.	1.0	3.0	1.0	1.0
LVS404012	2	4.0±0.2	4.0±0.2	1.20±0.1	1.5	4.2	1.5	1.2
LVS404018	3	4.0±0.2	4.0±0.2	$1.8^{+0.2}_{-0.30}$	1.3±0.3	3.7	1.2	1.6
LVS404026	3	4.0±0.2	4.0±0.2	2.6±0.2	1.4	3.7	1.2	1.6
LVS606028	3	6.0±0.2	6.0±0.2	$2.8^{+0.2}_{-0.30}$	1.9±0.3	5.7	1.6	2.9

Recommended Pattern



Shape and Dimensions

Figure 4

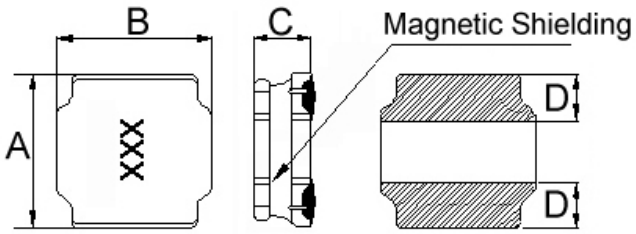
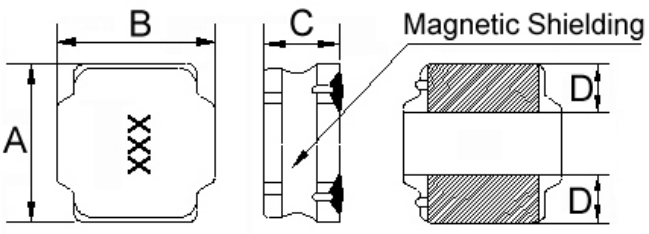


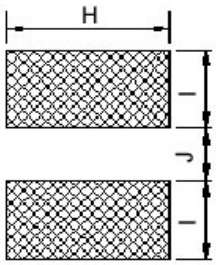
Figure 5



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
LVS505020	4	5.0±0.2	5.0±0.2	$2.0^{+0.2}_{-0.30}$	1.8±0.3	4.0	1.5	2.1
LVS505040	4	5.0±0.2	5.0±0.2	$4.0^{+0.2}_{-0.30}$	1.6±0.3	4.0	1.5	2.1
LVS606020	4	6.0±0.2	6.0±0.2	$2.0^{+0.2}_{-0.30}$	1.7±0.3	5.7	1.6	2.9
LVS606045	5	6.0±0.2	6.0±0.2	$4.5^{+0.2}_{-0.30}$	1.8±0.3	4.5	2.0	2.4
LVS606045L	5	6.0±0.2	6.0±0.2	$4.5^{+0.2}_{-0.30}$	1.8±0.3	4.5	2.0	2.4
LVS808040	5	8.0±0.2	8.0±0.2	$4.0^{+0.2}_{-0.30}$	2.3±0.3	5.8	2.5	3.4
LVS808040L	5	8.0±0.2	8.0±0.2	$4.0^{+0.2}_{-0.30}$	2.3±0.3	5.8	2.5	3.4

Recommended Pattern

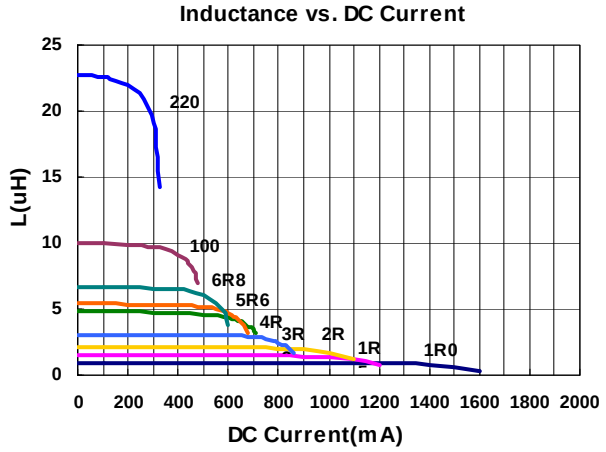


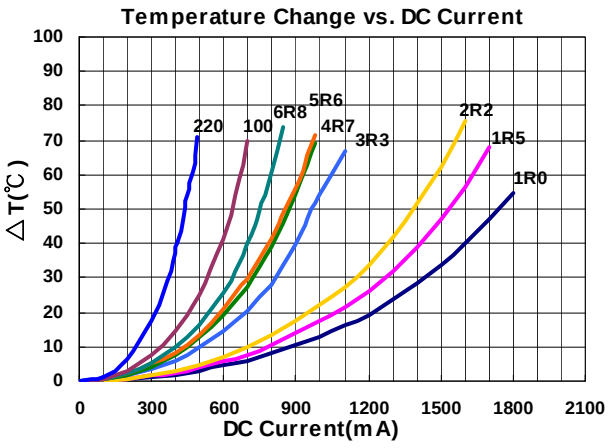
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)	Marking
LVS201610-1R0□-N	1.0	1	20, 30	0.17	1400(1260)	1600(1440)	A
LVS201610-1R5□-N	1.5	1	20, 30	0.26	1100(990)	1400(1260)	B
LVS201610-2R2□-N	2.2	1	20, 30	0.32	1000(900)	1200(1080)	C
LVS201610-3R3□-N	3.3	1	20, 30	0.51	820(738)	900(810)	D
LVS201610-4R7□-N	4.7	1	20, 30	0.67	680(612)	800(720)	E
LVS201610-5R6□-N	5.6	1	20, 30	0.72	650(585)	800(720)	F
LVS201610-6R8□-N	6.8	1	20, 30	0.97	560(504)	700(630)	G
LVS201610-100□-N	10	1	20, 30	1.45	470(423)	580(522)	H
LVS201610-120□-N	12	1	20, 30	1.65	420(378)	420(378)	J
LVS201610-220□-N	22	1	20, 30	2.90	310(279)	400(360)	I

- When ordering, please specify tolerance and packaging codes
- Tolerance： T =±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient.
- Operating temperature range from -55to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer



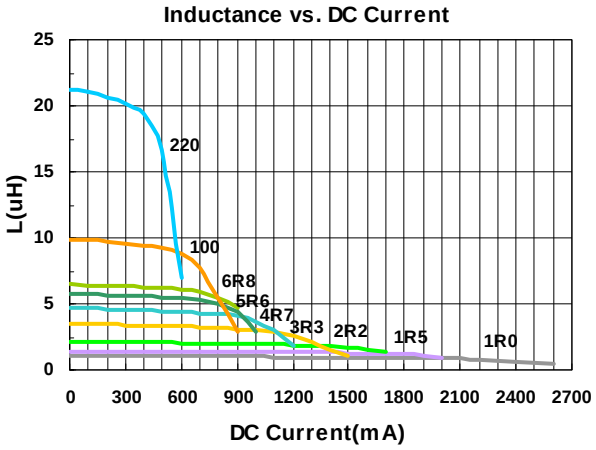


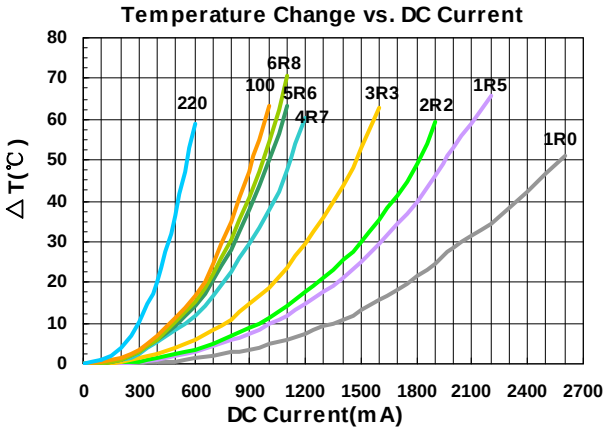
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)	Marking
LVS252010-1R0□-N	1.0	1	20, 30	0.093	2200(1980)	2200(1980)	A
LVS252010-1R5□-N	1.5	1	20, 30	0.148	1900(1710)	1800(1620)	B
LVS252010-2R2□-N	2.2	1	20, 30	0.178	1620(1458)	1680(1512)	C
LVS252010-3R3□-N	3.3	1	20, 30	0.286	1220(1098)	1340(1206)	D
LVS252010-4R7□-N	4.7	1	20, 30	0.421	1040(936)	1020(918)	E
LVS252010-5R6□-N	5.6	1	20, 30	0.481	920(828)	940(846)	F
LVS252010-6R8□-N	6.8	1	20, 30	0.598	900(810)	880(792)	G
LVS252010-100□-N	10	1	20, 30	0.797	740(666)	820(738)	H
LVS252010-150□-N	15	1	20, 30	1.450	520(468)	400(360)	L
LVS252010-220□-N	22	1	20, 30	1.839	500(450)	520(468)	I

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- Packaging: Clear tape and reel {standard}
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient.
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





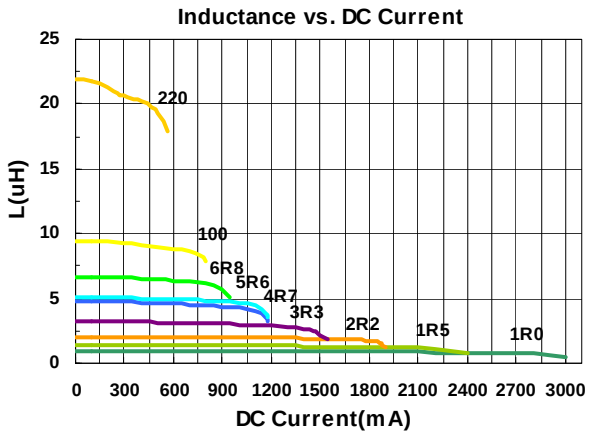
CHILISIN ELECTRONICS CORP.

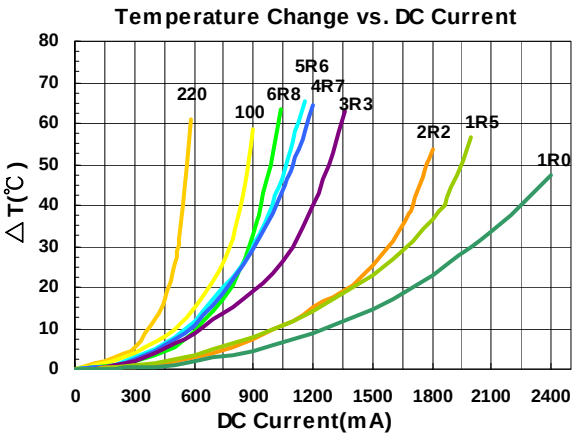
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)	Marking
LVS252012-1R0□-N	1.0	1	20, 30	0.105	2800(2520)	2200(1980)	A
LVS252012-1R5□-N	1.5	1	20, 30	0.153	2200(1980)	1860(1674)	B
LVS252012-2R2□-N	2.2	1	20, 30	0.219	1800(1620)	1700(1530)	C
LVS252012-3R3□-N	3.3	1	20, 30	0.349	1300(1170)	1200(1080)	D
LVS252012-4R7□-N	4.7	1	20, 30	0.507	1100(990)	1040(936)	E
LVS252012-5R6□-N	5.6	1	20, 30	0.525	1100(990)	1000(900)	F
LVS252012-6R8□-N	6.8	1	20, 30	0.760	940(846)	940(846)	G
LVS252012-100□-N	10	1	20, 30	0.915	820(738)	840(756)	H
LVS252012-220□-N	22	1	20, 30	2.110	550(495)	540(486)	I

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





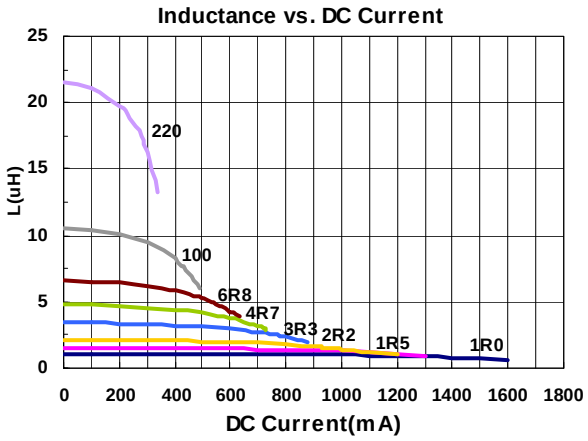
CHILISIN ELECTRONICS CORP.

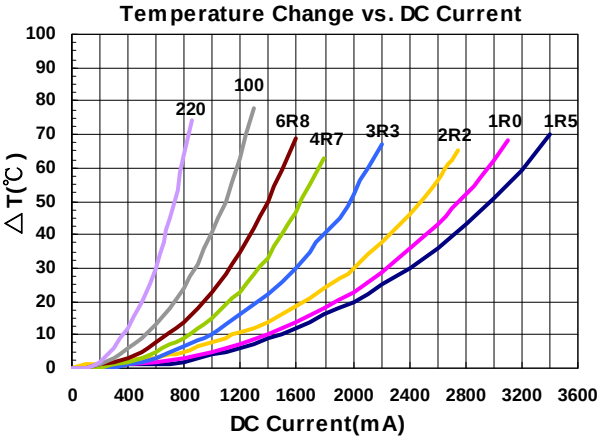
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)	Marking
LVS303010-1R0□-N	1.0	1	20, 30	0.063	1300(1170)	2400(2160)	1R0
LVS303010-1R5□-N	1.5	1	20, 30	0.077	1100(990)	2200(1980)	1R5
LVS303010-2R2□-N	2.2	1	20, 30	0.087	960(864)	2000(1800)	2R2
LVS303010-3R3□-N	3.3	1	20, 30	0.127	780(702)	1600(1440)	3R3
LVS303010-4R7□-N	4.7	1	20, 30	0.186	650(585)	1300(1170)	4R7
LVS303010-6R8□-N	6.8	1	20, 30	0.253	560(504)	1000(900)	6R8
LVS303010-100□-N	10	1	20, 30	0.353	430(387)	880(792)	100
LVS303010-220□-N	22	1	20, 30	0.693	310(279)	580(522)	220
LVS303010-470□-N	47	1	20, 30	1.800	210(189)	330(297)	470
LVS303010-221□-N	220	1	20, 30	6.500	82(73.8)	180(162)	221

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





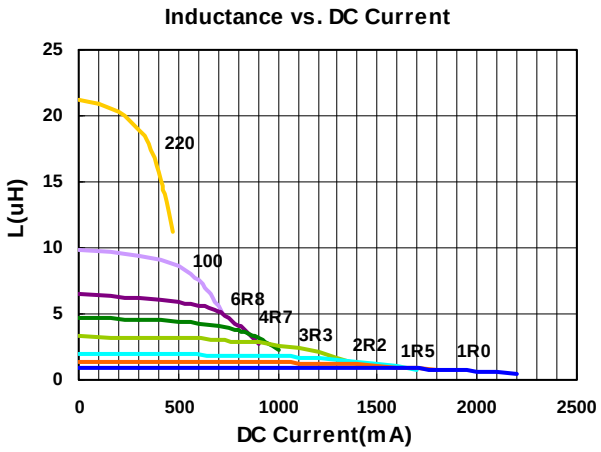
CHILISIN ELECTRONICS CORP.

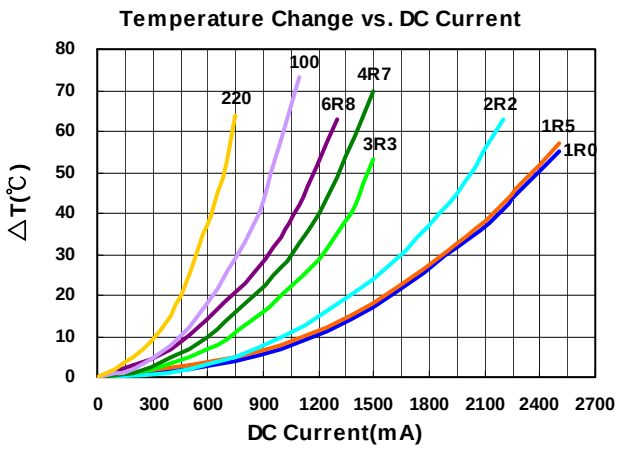
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)	Marking
LVS303010H-1R0□-N	1.0	1	20, 30	0.060	1800(1620)	2200(1980)	1R0
LVS303010H-1R5□-N	1.5	1	20, 30	0.075	1600(1440)	2100(1890)	1R5
LVS303010H-2R2□-N	2.2	1	20, 30	0.095	1400(1260)	1900(1710)	2R2
LVS303010H-3R3□-N	3.3	1	20, 30	0.140	1000(900)	1300(1170)	3R3
LVS303010H-4R7□-N	4.7	1	20, 30	0.190	850(765)	1200(1080)	4R7
LVS303010H-6R8□-N	6.8	1	20, 30	0.275	720(648)	1000(900)	6R8
LVS303010H-100□-N	10	1	20, 30	0.440	610(549)	860(774)	100
LVS303010H-220□-N	22	1	20, 30	0.800	420(378)	620(558)	220

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer



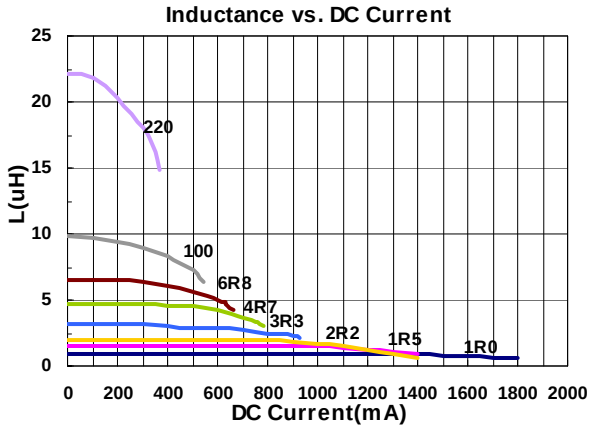


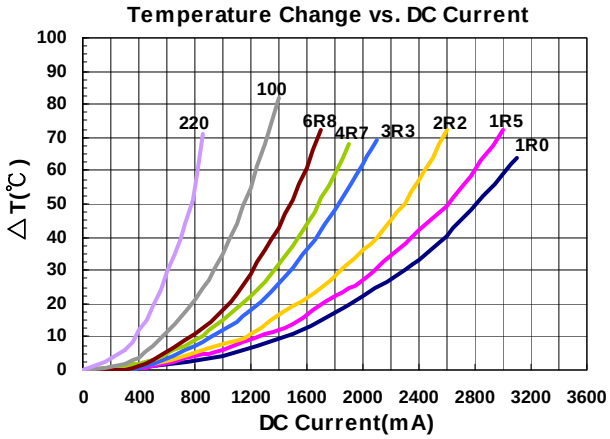
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)	Marking
LVS303012-1R0□-N	1.0	1	20, 30	0.048	1600(1440)	2500(2250)	1R0
LVS303012-1R5□-N	1.5	1	20, 30	0.063	1200(1080)	2300(2070)	1R5
LVS303012-2R2□-N	2.2	1	20, 30	0.076	1100(990)	2000(1800)	2R2
LVS303012-3R3□-N	3.3	1	20, 30	0.102	900(810)	1600(1440)	3R3
LVS303012-4R7□-N	4.7	1	20, 30	0.136	750(675)	1500(1350)	4R7
LVS303012-6R8□-N	6.8	1	20, 30	0.182	630(567)	1300(1170)	6R8
LVS303012-100□-N	10	1	20, 30	0.275	520(468)	1000(900)	100
LVS303012-220□-N	22	1	20, 30	0.594	350(315)	650(585)	220

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





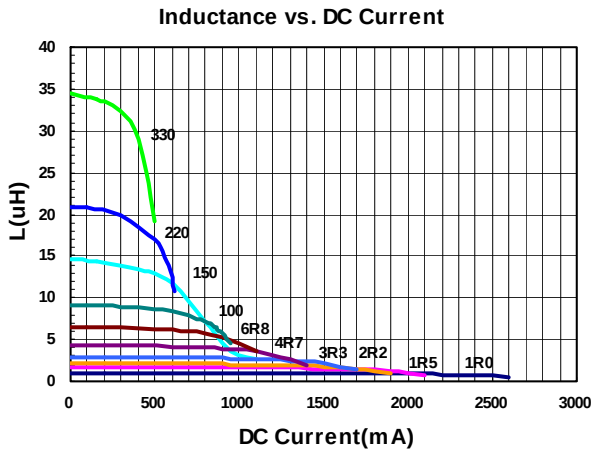
CHILISIN ELECTRONICS CORP.

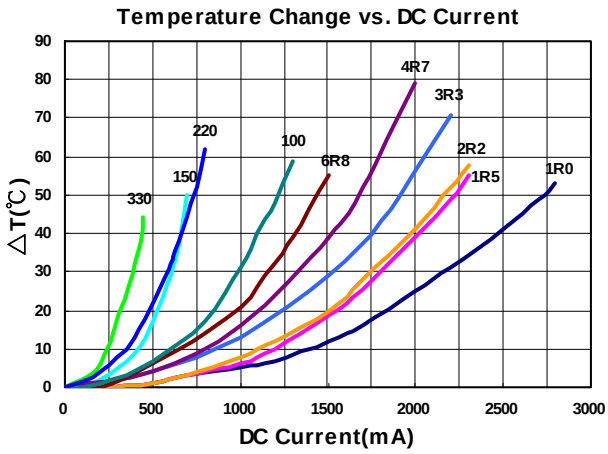
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)	Marking
LVS303012H-1R0□-N	1.0	1	20,30	0.056	1900(1710)	2100(1890)	1R0
LVS303012H-1R5□-N	1.5	1	20,30	0.065	1500(1350)	1850(1665)	1R5
LVS303012H-2R2□-N	2.2	1	20,30	0.080	1400(1260)	1800(1620)	2R2
LVS303012H-3R3□-N	3.3	1	20,30	0.100	1100(990)	1600(1440)	3R3
LVS303012H-4R7□-N	4.7	1	20,30	0.130	990(891)	1400(1260)	4R7
LVS303012H-6R8□-N	6.8	1	20,30	0.190	850(765)	1200(1080)	6R8
LVS303012H-100□-N	10	1	20,30	0.270	720(648)	1000(900)	100
LVS303012H-150□-N	15	1	20,30	0.460	600(540)	650(585)	150
LVS303012H-220□-N	22	1	20,30	0.600	450(405)	630(567)	220
LVS303012H-330□-N	33	1	20,30	0.950	400(360)	420(378)	330

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





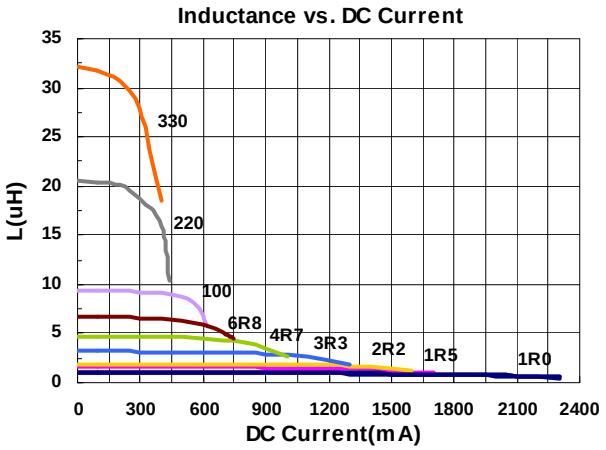
CHILISIN ELECTRONICS CORP.

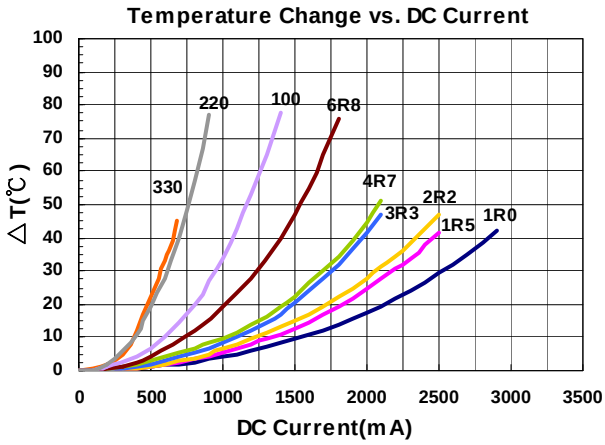
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)	Marking
LVS303015-1R0□-N	1.0	1	20, 30	0.056	2000(1800)	2800(2520)	1R0
LVS303015-1R5□-N	1.5	1	20, 30	0.074	1600(1440)	2400(2160)	1R5
LVS303015-2R2□-N	2.2	1	20, 30	0.079	1200(1080)	2300(2070)	2R2
LVS303015-3R3□-N	3.3	1	20, 30	0.105	1000(900)	1900(1710)	3R3
LVS303015-4R7□-N	4.7	1	20, 30	0.130	900(810)	1600(1440)	4R7
LVS303015-6R8□-N	6.8	1	20, 30	0.165	730(657)	1300(1170)	6R8
LVS303015-100□-N	10	1	20, 30	0.206	600(540)	1000(900)	100
LVS303015-220□-N	22	1	20, 30	0.501	420(378)	650(585)	220
LVS303015-330□-N	33	1	20, 30	0.600	330(297)	600(540)	330
LVS303015-820□-N	82	1	20, 30	1.600	210(189)	350(315)	820
LVS303015-101□-N	100	1	20, 30	1.800	200(180)	300(270)	101

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





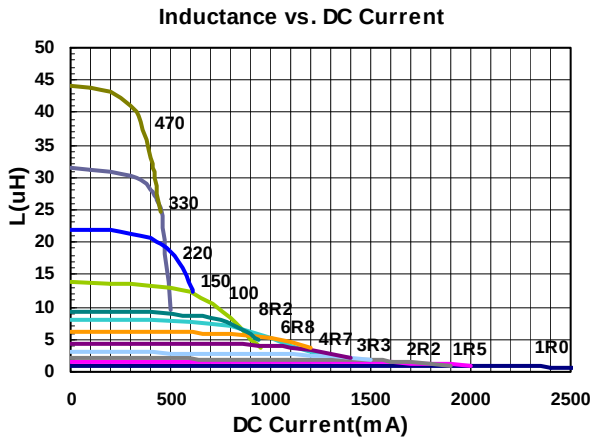
CHILISIN ELECTRONICS CORP.

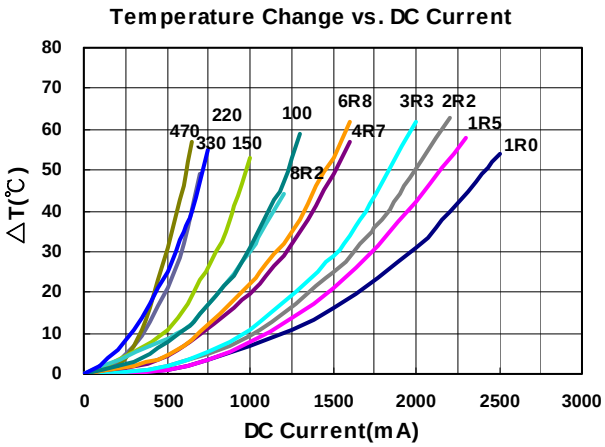
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)	Marking
LVS303015H-1R0□-N	1.0	1	20, 30	0.053	2000(1800)	2100(1890)	1R0
LVS303015H-1R5□-N	1.5	1	20, 30	0.070	1600(1440)	1900(1710)	1R5
LVS303015H-2R2□-N	2.2	1	20, 30	0.075	1500(1350)	1800(1620)	2R2
LVS303015H-3R3□-N	3.3	1	20, 30	0.095	1100(990)	1600(1440)	3R3
LVS303015H-4R7□-N	4.7	1	20, 30	0.117	990(891)	1400(1260)	4R7
LVS303015H-6R8□-N	6.8	1	20, 30	0.160	900(810)	1200(1080)	6R8
LVS303015H-8R2□-N	8.2	1	20, 30	0.200	800(720)	1100(990)	8R2
LVS303015H-100□-N	10	1	20, 30	0.220	720(648)	1000(900)	100
LVS303015H-150□-N	15	1	20, 30	0.290	680(612)	850(765)	150
LVS303015H-220□-N	22	1	20, 30	0.530	480(432)	620(558)	220
LVS303015H-330□-N	33	1	20, 30	0.670	460(414)	500(450)	330
LVS303015H-470□-N	47	1	20, 30	0.960	380(342)	400(360)	470

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -55℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





CHILISIN ELECTRONICS CORP.

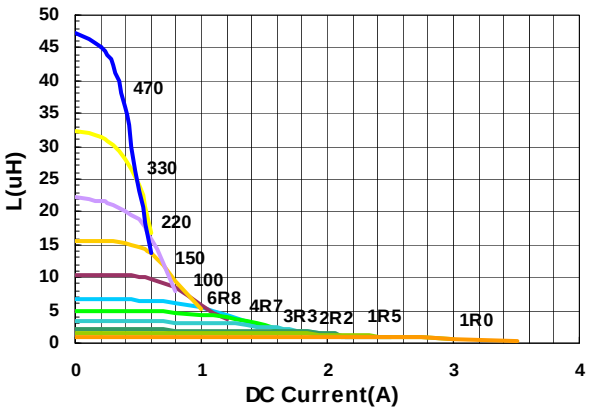
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVS404012-1R0□-N	1.0	100	30	48	2.50(2.25)	1.70(1.53)	1R0
LVS404012-1R5□-N	1.5	100	30	58	2.10(1.89)	1.60(1.44)	1R5
LVS404012-2R2□-N	2.2	100	20, 30	65	1.70(1.53)	1.50(1.35)	2R2
LVS404012-3R3□-N	3.3	100	20, 30	90	1.30(1.17)	1.40(1.26)	3R3
LVS404012-4R7□-N	4.7	100	20, 30	110	1.10(0.99)	1.20(1.08)	4R7
LVS404012-6R8□-N	6.8	100	20, 30	135	0.90(0.81)	1.05(0.94)	6R8
LVS404012-100□-N	10	100	20, 30	190	0.78(0.70)	0.90(0.81)	100
LVS404012-150□-N	15	100	20, 30	250	0.65(0.58)	0.85(0.76)	150
LVS404012-220□-N	22	100	20, 30	400	0.52(0.46)	0.75(0.67)	220
LVS404012-330□-N	33	100	20, 30	600	0.44(0.39)	0.70(0.63)	330
LVS404012-470□-N	47	100	20, 30	930	0.35(0.31)	0.50(0.45)	470

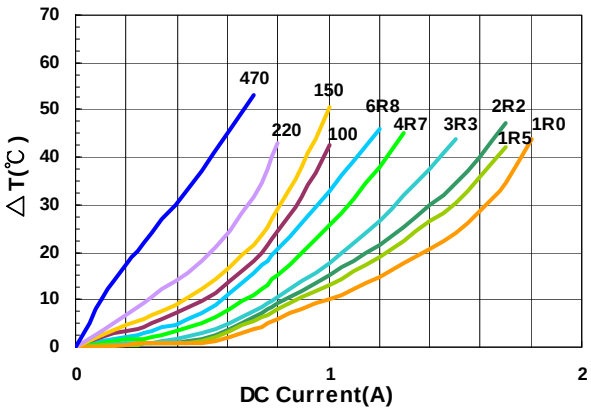
- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -55°C to 125°C. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer

Inductance vs. DC Current



Temperature Change vs. DC Current



CHILISIN ELECTRONICS CORP.

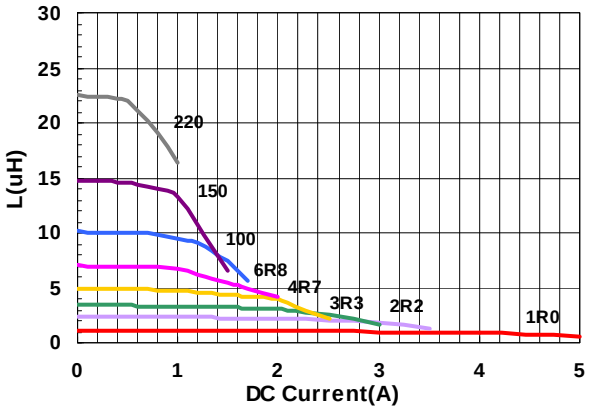
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (mΩ) ±20%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVS404018-1R0□-N	1.0	100	20, 30	32	4.10(3.69)	2.80(2.52)	1R0
LVS404018-1R5□-N	1.5	100	20, 30	40	3.30(2.97)	2.60(2.34)	1R5
LVS404018-1R8□-N	1.8	100	20, 30	55	2.80(2.50)	2.50(2.20)	1R8
LVS404018-2R2□-N	2.2	100	20, 30	60	2.80(2.52)	2.50(2.25)	2R2
LVS404018-2R3□-N	2.3	100	20, 30	60	2.80(2.52)	2.50(2.25)	2R3
LVS404018-3R3□-N	3.3	100	20, 30	70	2.20(1.98)	2.10(1.89)	3R3
LVS404018-3R6□-N	3.6	100	20, 30	75	2.10(1.89)	1.90(1.71)	3R6
LVS404018-3R9□-N	3.9	100	20, 30	75	2.10(1.89)	1.90(1.71)	3R9
LVS404018-4R7□-N	4.7	100	20, 30	90	2.00(1.80)	1.70(1.53)	4R7
LVS404018-6R8□-N	6.8	100	20, 30	110	1.60(1.44)	1.50(1.35)	6R8
LVS404018-100□-N	10	100	20, 30	170	1.40(1.26)	1.20(1.08)	100
LVS404018-150□-N	15	100	20, 30	250	1.00(0.90)	1.00(0.90)	150
LVS404018-220□-N	22	100	20, 30	350	0.90(0.81)	0.85(0.76)	220
LVS404018-330□-N	33	100	20, 30	530	0.80(0.72)	0.70(0.63)	330
LVS404018-470□-N	47	100	20, 30	720	0.70(0.63)	0.56(0.50)	470
LVS404018-680□-N	68	100	20, 30	1000	0.56(0.50)	0.45(0.40)	680
LVS404018-101□-N	100	100	20, 30	1500	0.46(0.41)	0.38(0.34)	101
LVS404018-151□-N	150	100	20, 30	2500	0.35(0.31)	0.30(0.27)	151
LVS404018-221□-N	220	100	20, 30	4000	0.28(0.25)	0.23(0.20)	221

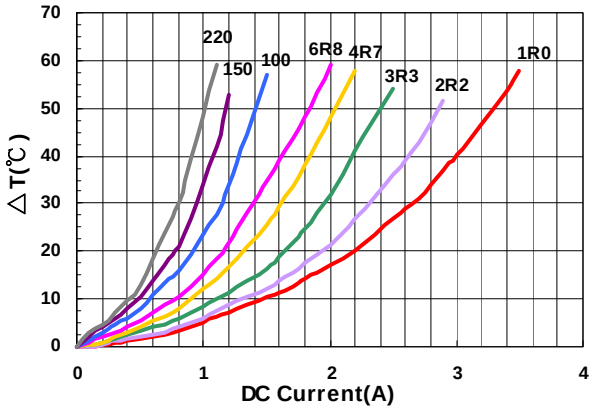
- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -55°C to 125°C. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer

Inductance vs. DC Current



Temperature Change vs. DC Current



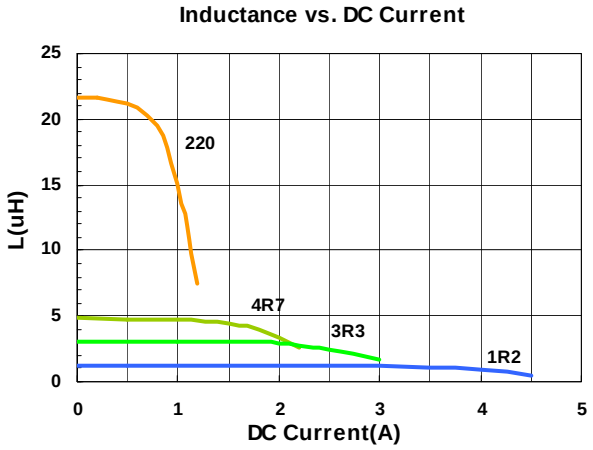
CHILISIN ELECTRONICS CORP.

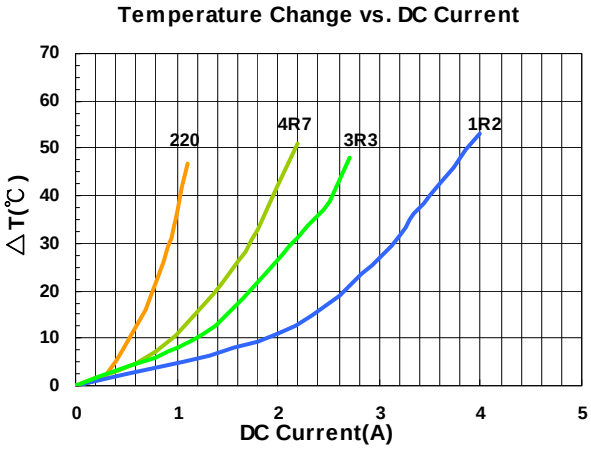
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVS404026-1R2□-N	1.2	100	20, 30	30	3.50(3.15)	3.30(2.97)	1R2
LVS404026-3R3□-N	3.3	100	20, 30	45	2.50(2.25)	2.50(2.25)	3R3
LVS404026-4R7□-N	4.7	100	20, 30	60	1.80(1.62)	1.80(1.62)	4R7
LVS404026-220□-N	22	100	20, 30	230	0.86(0.77)	1.00(0.90)	220

- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A , 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -55°C to 125°C. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





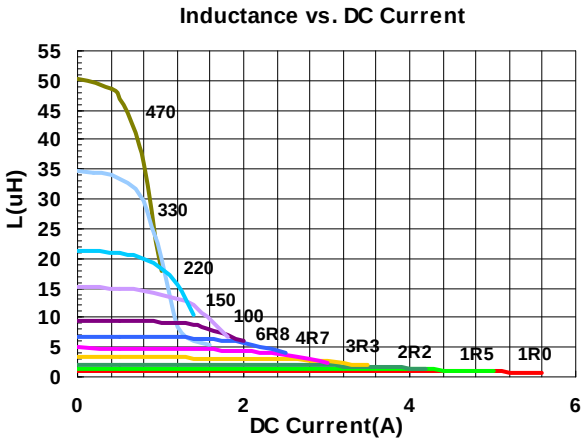
CHILISIN ELECTRONICS CORP.

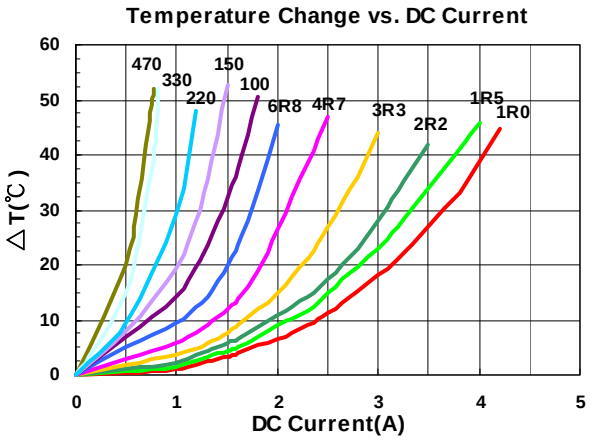
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (mΩ) ±20%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVS505020-1R0□-N	1.0	100	30	21	5.1(4.59)	4.0(3.60)	1R0
LVS505020-1R2□-N	1.2	100	30	21	4.8(4.32)	3.8(3.42)	1R2
LVS505020-1R5□-N	1.5	100	30	26	4.2(3.78)	3.5(3.15)	1R5
LVS505020-2R2□-N	2.2	100	20, 30	35	3.4(3.06)	3.2(2.88)	2R2
LVS505020-3R3□-N	3.3	100	20, 30	48	3.0(2.70)	2.8(2.52)	3R3
LVS505020-4R7□-N	4.7	100	20, 30	60	2.2(1.98)	2.2(1.98)	4R7
LVS505020-5R6□-N	5.6	100	20, 30	82	2.05(1.84)	2.0(1.80)	5R6
LVS505020-6R8□-N	6.8	100	20, 30	90	2.0(1.80)	1.8(1.62)	6R8
LVS505020-100□-N	10	100	20, 30	120	1.6(1.44)	1.6(1.44)	100
LVS505020-150□-N	15	100	20, 30	190	1.3(1.17)	1.2(1.08)	150
LVS505020-220□-N	22	100	20, 30	260	1.0(0.90)	1.0(0.90)	220
LVS505020-330□-N	33	100	20, 30	460	0.8(0.72)	0.75(0.67)	330
LVS505020-470□-N	47	100	20, 30	580	0.65(0.58)	0.65(0.60)	470

- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -55°C to 125°C. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer



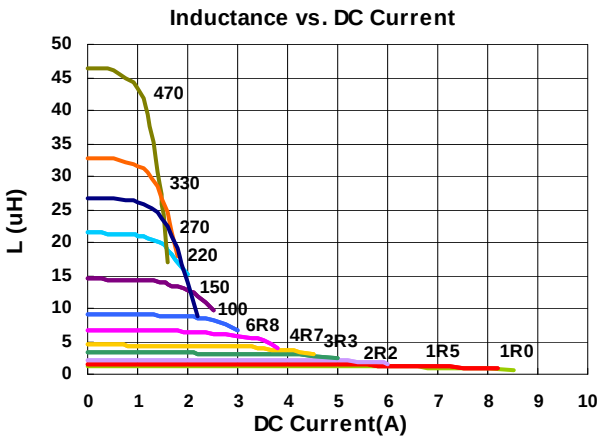


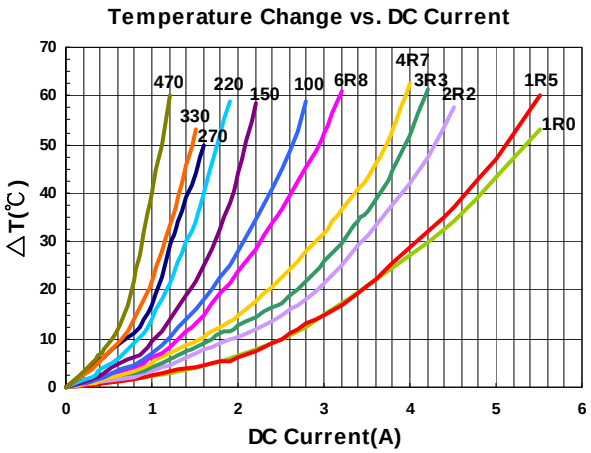
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVS505040-1R0□-N	1.0	100	30	14	7.5(6.75)	4.6(4.14)	1R0
LVS505040-1R2□-N	1.2	100	30	15	7.4(6.66)	4.5(4.05)	1R2
LVS505040-1R5□-N	1.5	100	30	16	7.1(6.39)	4.4(3.96)	1R5
LVS505040-2R2□-N	2.2	100	20, 30	21	5.7(5.13)	3.7(3.33)	2R2
LVS505040-3R3□-N	3.3	100	20, 30	26	4.8(4.32)	3.5(3.15)	3R3
LVS505040-4R7□-N	4.7	100	20, 30	32	4.2(3.78)	3.2(2.88)	4R7
LVS505040-6R8□-N	6.8	100	20, 30	50	3.3(2.97)	2.4(2.16)	6R8
LVS505040-100□-N	10	100	20, 30	60	2.8(2.52)	2.2(1.98)	100
LVS505040-150□-N	15	100	20, 30	90	2.3(2.07)	1.8(1.62)	150
LVS505040-220□-N	22	100	20, 30	135	1.8(1.62)	1.4(1.26)	220
LVS505040-270□-N	27	100	20, 30	180	1.6(1.44)	1.2(1.08)	270
LVS505040-330□-N	33	100	20, 30	190	1.5(1.35)	1.1(0.99)	330
LVS505040-470□-N	47	100	20, 30	310	1.2(1.08)	0.9(0.81)	470

- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -55°C to 125°C. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





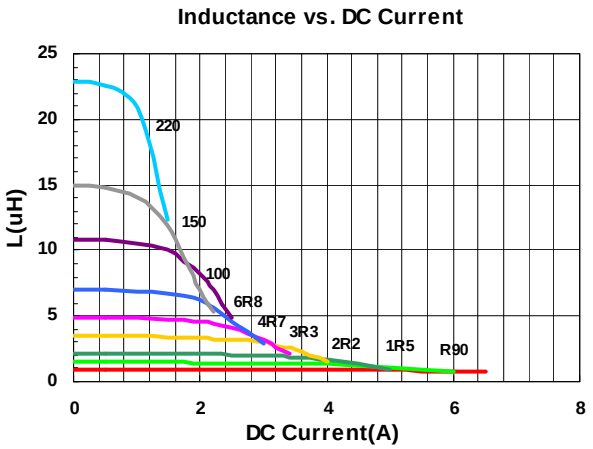
CHILISIN ELECTRONICS CORP.

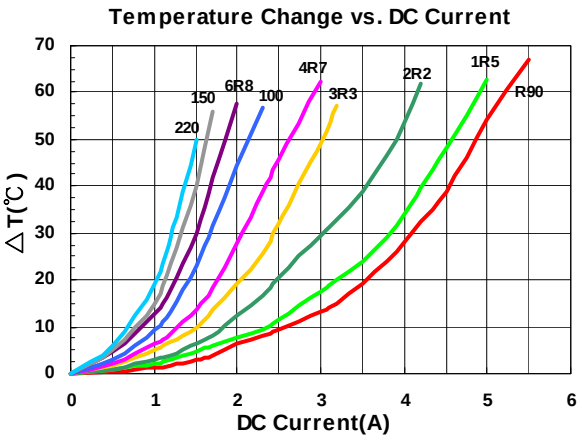
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVS606020-R50□-N	0.5	100	30	13	8.0(7.20)	5.3(4.77)	R50
LVS606020-R90□-N	0.9	100	30	18	6.3(5.67)	4.2(3.78)	R90
LVS606020-1R0□-N	1.0	100	30	19	6.2(5.58)	4.1(3.69)	1R0
LVS606020-1R5□-N	1.5	100	20, 30	26	5.0(4.50)	3.6(3.24)	1R5
LVS606020-2R2□-N	2.2	100	20, 30	34	4.2(3.78)	3.2(2.88)	2R2
LVS606020-3R3□-N	3.3	100	20, 30	40	3.2(2.88)	2.7(2.43)	3R3
LVS606020-4R7□-N	4.7	100	20, 30	58	2.5(2.25)	2.2(1.98)	4R7
LVS606020-6R8□-N	6.8	100	20, 30	85	2.2(1.98)	1.8(1.62)	6R8
LVS606020-100□-N	10	100	20, 30	125	2.0(1.80)	1.6(1.44)	100
LVS606020-150□-N	15	100	20, 30	190	1.3(1.17)	1.3(1.17)	150
LVS606020-220□-N	22	100	20, 30	260	1.1(0.99)	1.1(0.99)	220

- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -55°C to 125°C. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVS606028-1R0□-N	1.0	100	30	13	7.6(6.84)	5.2(4.68)	1R0
LVS606028-1R5□-N	1.5	100	30	16	6.3(5.67)	4.8(4.32)	1R5
LVS606028-2R2□-N	2.2	100	20, 30	20	5.4(4.86)	4.0(3.60)	2R2
LVS606028-2R7□-N	2.7	100	20, 30	26	4.9(4.41)	3.7(3.33)	2R7
LVS606028-3R3□-N	3.3	100	20, 30	28	4.3(3.87)	3.5(3.15)	3R3
LVS606028-4R7□-N	4.7	100	20, 30	38	3.7(3.33)	3.2(2.88)	4R7
LVS606028-6R0□-N	6.0	100	20, 30	45	3.3(2.97)	2.8(2.52)	6R0
LVS606028-6R8□-N	6.8	100	20, 30	50	3.1(2.79)	2.7(2.43)	6R8
LVS606028-100□-N	10	100	20, 30	65	2.5(2.25)	2.3(2.07)	100
LVS606028-150□-N	15	100	20, 30	95	2.0(1.80)	1.8(1.62)	150
LVS606028-220□-N	22	100	20, 30	135	1.6(1.44)	1.5(1.35)	220
LVS606028-330□-N	33	100	20, 30	220	1.3(1.17)	1.4(1.26)	330
LVS606028-470□-N	47	100	20, 30	320	1.1(0.99)	1.0(0.90)	470
LVS606028-680□-N	68	100	20, 30	420	0.98(0.88)	0.9(0.81)	680
LVS606028-101□-N	100	100	20, 30	600	0.82(0.73)	0.8(0.72)	101

- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
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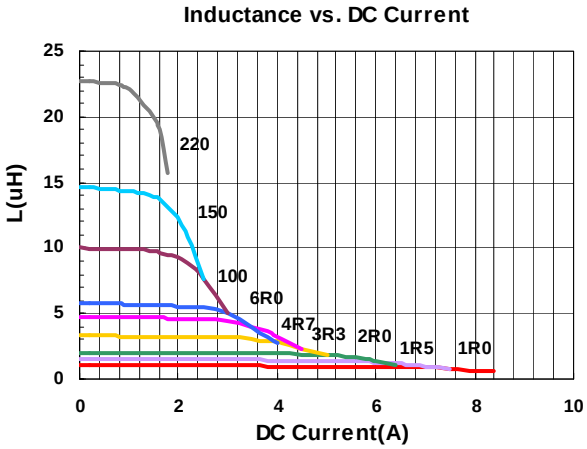
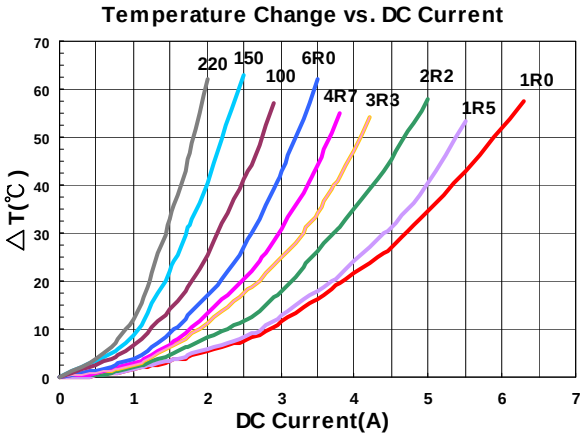
Test Instruments：HP4284A Material/Impedance Analyzer





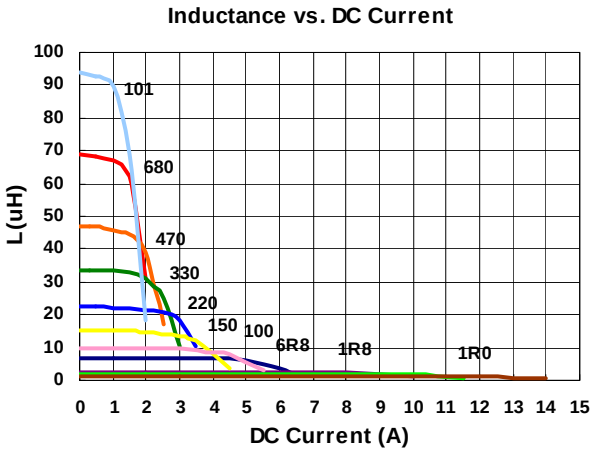
CHILISIN ELECTRONICS CORP.

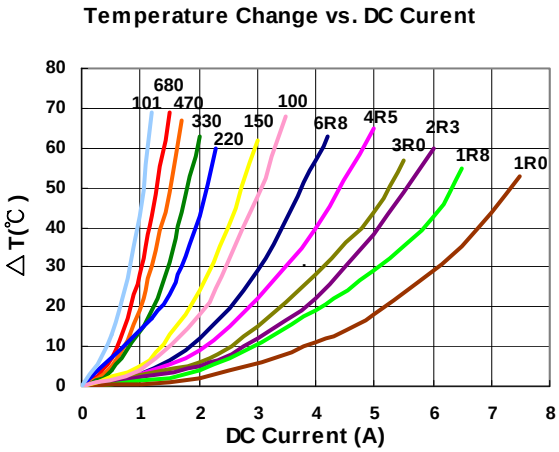
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVS606045-1R0□-N	1.0	100	20, 30	12	12.2(10.98)	6.5(5.85)	1R0
LVS606045-1R5□-N	1.5	100	30	15	10.4(9.36)	5.9(5.31)	1R5
LVS606045-1R8□-N	1.8	100	20, 30	17	9.6(8.64)	5.6(5.04)	1R8
LVS606045-2R2□-N	2.2	100	20, 30	18.4	8.8(7.92)	5.1(4.59)	2R2
LVS606045-2R3□-N	2.3	100	20, 30	19	8.8(7.92)	5.0(4.50)	2R3
LVS606045-3R0□-N	3.0	100	20, 30	22	7.8(7.02)	4.4(3.96)	3R0
LVS606045-3R3□-N	3.3	100	20, 30	24	7.5(6.75)	4.3(3.87)	3R3
LVS606045-3R6□-N	3.6	100	20, 30	24	7.5(6.75)	4.3(3.87)	3R6
LVS606045-3R9□-N	3.9	100	20, 30	26	7.0(6.30)	4.0(3.60)	3R9
LVS606045-4R5□-N	4.5	100	20, 30	31	6.7(6.03)	3.9(3.51)	4R5
LVS606045-4R7□-N	4.7	100	20, 30	31	6.7(6.03)	3.9(3.51)	4R7
LVS606045-5R1□-N	5.1	100	20, 30	33	6.0(5.40)	3.5(3.15)	5R1
LVS606045-6R3□-N	6.3	100	20, 30	40	5.5(4.95)	3.3(2.97)	6R3
LVS606045-6R8□-N	6.8	100	20, 30	43	5.3(4.77)	3.2(2.88)	6R8
LVS606045-100□-N	10	100	20, 30	57	4.5(4.05)	2.7(2.43)	100
LVS606045-150□-N	15	100	20, 30	80	3.4(3.06)	2.2(1.98)	150
LVS606045-180□-N	18	100	20, 30	100	3.1(2.79)	1.8(1.62)	180
LVS606045-220□-N	22	100	20, 30	125	3.0(2.70)	1.9(1.71)	220
LVS606045-270□-N	27	100	20, 30	160	2.5(2.25)	1.3(1.17)	270
LVS606045-330□-N	33	100	20, 30	165	2.3(2.07)	1.4(1.26)	330
LVS606045-470□-N	47	100	20, 30	245	1.9(1.71)	1.2(1.08)	470
LVS606045-680□-N	68	100	20, 30	330	1.6(1.44)	1.0(0.90)	680
LVS606045-101□-N	100	100	20, 30	500	1.3(1.17)	0.8(0.72)	101
LVS606045-331□-N	330	100	20, 30	1800	0.7(0.63)	0.35(0.31)	331
LVS606045-102□-N	1000	100	20, 30	6000	0.4(0.36)	0.22(0.19)	102

- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -55°C to 125°C. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer



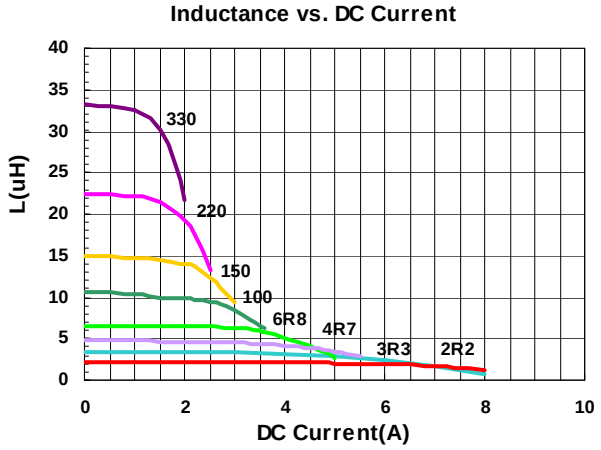


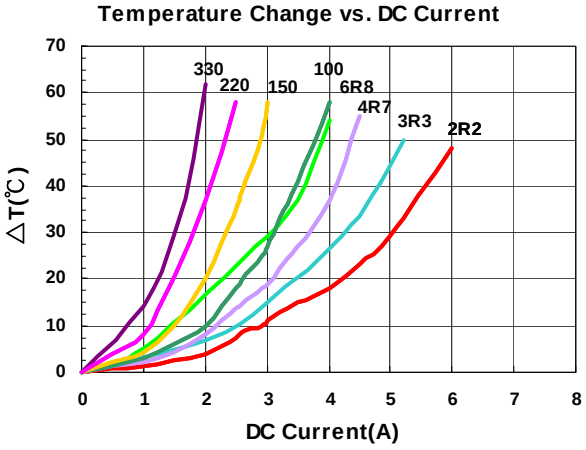
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (mΩ) Max	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVS606045L-R50□-N	0.5	100	30	9	11(9.90)	8.0(7.20)	R50
LVS606045L-2R2□-N	2.2	100	20, 30	17	6.8(6.12)	5.5(4.95)	2R2
LVS606045L-3R3□-N	3.3	100	20, 30	24	5.5(4.95)	4.7(4.23)	3R3
LVS606045L-4R7□-N	4.7	100	20, 30	30	4.6(4.14)	4.0(3.60)	4R7
LVS606045L-6R8□-N	6.8	100	20, 30	40	4.0(3.60)	3.5(3.15)	6R8
LVS606045L-100□-N	10	100	20, 30	50	3.2(2.88)	3.2(2.88)	100
LVS606045L-150□-N	15	100	20, 30	80	2.6(2.34)	2.5(2.25)	150
LVS606045L-220□-N	22	100	20, 30	120	2.1(1.89)	2.0(1.80)	220
LVS606045L-330□-N	33	100	20, 30	170	1.7(1.53)	1.6(1.44)	330
LVS606045L-101□-N	100	100	20, 30	595	0.95(0.85)	0.92(0.82)	101

- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -55°C to 125°C. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





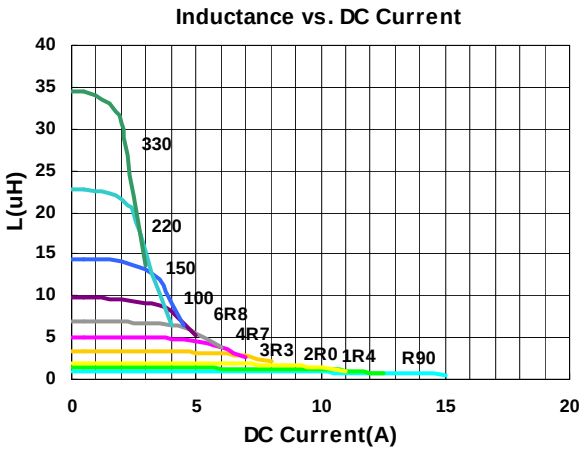
CHILISIN ELECTRONICS CORP.

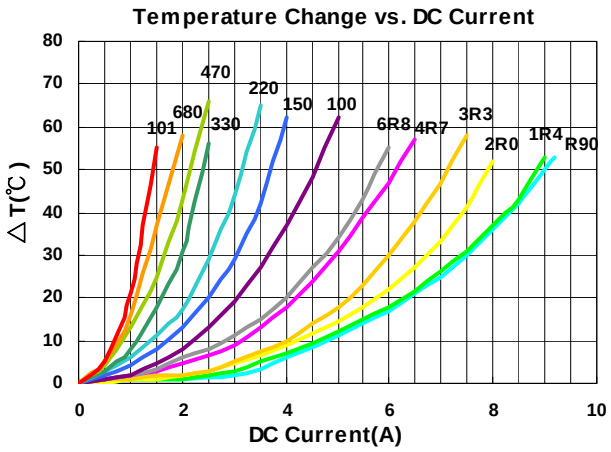
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVS808040-R90□-N	0.9	100	30	7	13.8(12.42)	8.05(7.24)	R90
LVS808040-1R0□-N	1.0	100	30	7.5	13.0(11.70)	7.95(7.15)	1R0
LVS808040-1R4□-N	1.4	100	30	9	10.8(9.72)	7.8(7.02)	1R4
LVS808040-1R5□-N	1.5	100	30	9.5	10.08(9.07)	7.7(6.93)	1R5
LVS808040-2R0□-N	2.0	100	20, 30	11	9.6(8.64)	7.4(6.66)	2R0
LVS808040-2R2□-N	2.2	100	20, 30	11.5	9.2(8.28)	7.2(6.48)	2R2
LVS808040-2R5□-N	2.5	100	20, 30	13	8.2(7.38)	6.3(5.67)	2R5
LVS808040-3R3□-N	3.3	100	20, 30	15	7.5(6.75)	6.0(5.40)	3R3
LVS808040-4R7□-N	4.7	100	20, 30	18	6.0(5.40)	5.5(4.95)	4R7
LVS808040-5R6□-N	5.6	100	20, 30	23	5.7(5.13)	5.2(4.68)	5R6
LVS808040-6R8□-N	6.8	100	20, 30	25	5.4(4.86)	5.1(4.59)	6R8
LVS808040-100□-N	10	100	20, 30	38	4.3(3.87)	3.8(3.42)	100
LVS808040-120□-N	12	100	20, 30	45	3.8(3.42)	3.5(3.15)	120
LVS808040-150□-N	15	100	20, 30	50	3.6(3.24)	3.2(2.88)	150
LVS808040-180□-N	18	100	20, 30	68	3.1(2.79)	2.7(2.43)	180
LVS808040-220□-N	22	100	20, 30	80	2.8(2.52)	2.6(2.34)	220
LVS808040-330□-N	33	100	20, 30	110	2.3(2.07)	2.0(1.80)	330
LVS808040-470□-N	47	100	20, 30	160	1.9(1.71)	1.75(1.57)	470
LVS808040-680□-N	68	100	20, 30	240	1.7(1.53)	1.45(1.30)	680
LVS808040-101□-N	100	100	20, 30	340	1.4(1.26)	1.10(0.99)	101
LVS808040-121□-N	120	100	20, 30	425	1.1(0.99)	1.0(0.90)	121
LVS808040-151□-N	150	100	20, 30	480	1.0(0.90)	0.9(0.81)	151
LVS808040-221□-N	220	100	20, 30	670	0.94(0.84)	0.60(0.54)	221
LVS808040-271□-N	270	100	20, 30	900	0.83(0.74)	0.55(0.49)	271
LVS808040-821□-N	820	100	20, 30	2800	0.40(0.36)	0.38(0.34)	821

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4284A+ Agilent/HP16334A, 100KHz, 1V
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 100KHz, 1V
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -55to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer



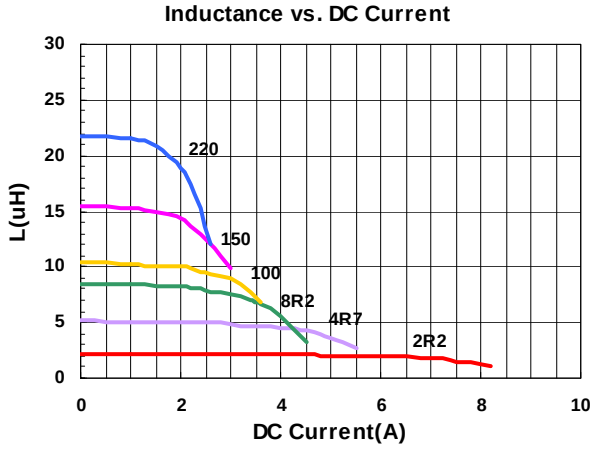


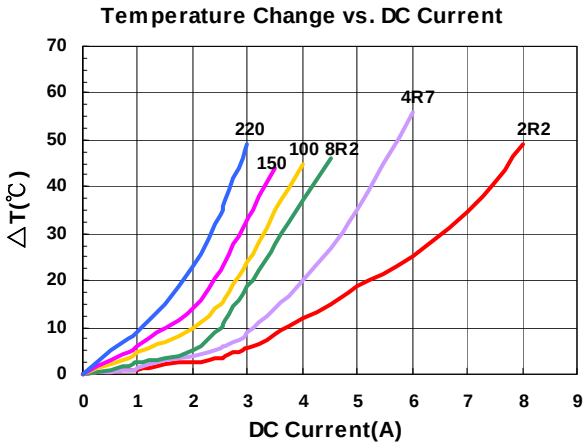
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (mΩ) Max	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVS808040L-1R0□-N	1.0	100	30	10	9.5(8.55)	8.5(7.65)	1R0
LVS808040L-2R2□-N	2.2	100	20,30	12	7.2(6.48)	7.3(6.57)	2R2
LVS808040L-3R3□-N	3.3	100	20,30	19	5.6(5.04)	6.0(5.40)	3R3
LVS808040L-4R7□-N	4.7	100	20,30	22	4.4(3.96)	5.0(4.50)	4R7
LVS808040L-8R2□-N	8.2	100	20,30	37	3.6(3.24)	3.8(3.42)	8R2
LVS808040L-100□-N	10	100	20,30	42	3.1(2.79)	3.5(3.15)	100
LVS808040L-150□-N	15	100	20,30	58	2.5(2.25)	3.0(2.70)	150
LVS808040L-220□-N	22	100	20,30	85	2.0(1.80)	2.5(2.25)	220

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4284A+ Agilent/HP16334A, 100KHz, 1V
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 100KHz, 1V
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -55to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer

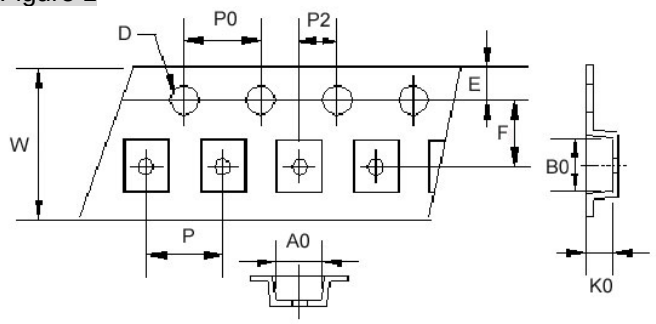




Packaging Specifications

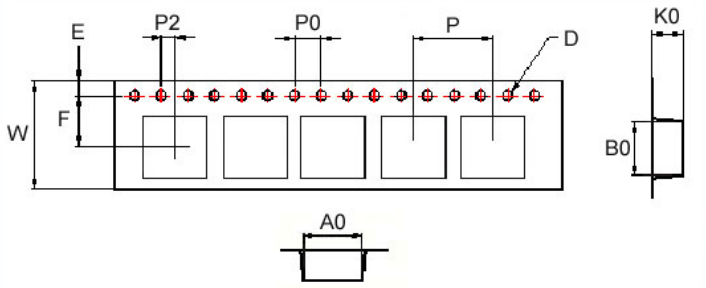
Tape Dimensions

Figure 1



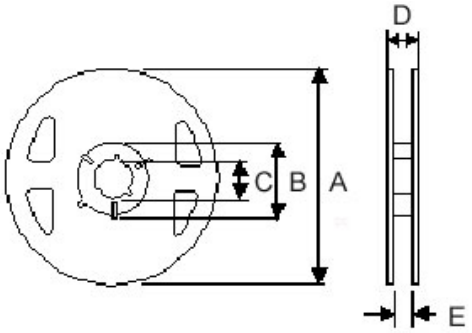
Tape Dimensions

Figure 2



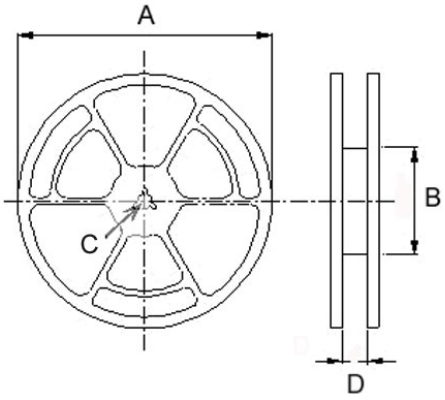
Reel Dimensions

Figure 1



Reel Dimensions

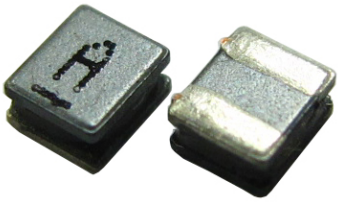
Figure 2



Dimensions in mm

TYPE	Fig	Tape Dimensions										Reel Dimensions					Quantity
		A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	PCS / Reel
LVS201610	1	1.80	2.20	1.15	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000
LVS252010	1	2.30	2.70	1.15	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000
LVS252012	1	2.30	2.70	1.30	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000
LVS303010	1	3.20	3.20	1.40	1.55	1.75	3.5	8.0	4	4	2	180	60	13	14.4	8.4	2000
LVS303012	1	3.20	3.20	1.40	1.55	1.75	3.5	8.0	4	4	2	180	60	13	14.4	8.4	2000
LVS303015	1	3.15	3.15	1.60	1.55	1.75	3.5	8.0	4	4	2	180	60	13	14.4	8.4	2000
LVS404012	2	4.25	4.25	1.30	1.55	1.75	5.5	12	8	4	2	180	60	13	13.2	-	1000
LVS404018	2	4.25	4.25	2.10	1.55	1.75	5.5	12	8	4	2	180	60	13	13.2	-	800
LVS404026	2	4.25	4.25	3.00	1.55	1.75	5.5	12	8	4	2	180	60	13	13.2	-	500
LVS505020	2	5.25	5.25	2.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	2000
LVS505040	2	5.20	5.20	4.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	1500
LVS606020	2	6.25	6.25	2.20	1.55	1.75	7.5	16	12	4	2	330	100	13	17.4	-	2000
LVS606028	2	6.25	6.25	3.00	1.55	1.75	7.5	16	12	4	2	330	100	13	17.4	-	1500
LVS606045	2	6.25	6.25	4.65	1.55	1.75	7.5	16	12	4	2	330	100	13	17.4	-	1000
LVS808040	2	8.25	8.25	4.15	1.55	1.75	7.5	16	12	4	2	330	100	13	17.4	-	1000

LVF Series



LVF series, an automatic assembly constructed power inductor, is shielded with magnetic resin and suitable for portable DC-DC converter applications.

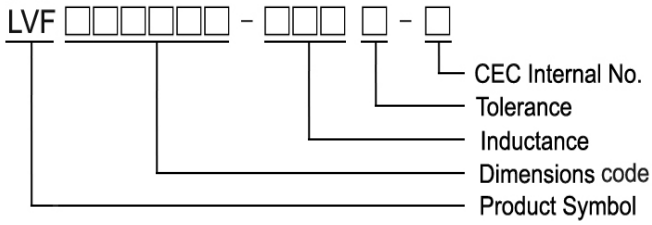
Features

- RoHS compliant
- Low DC resistance and high current
- Highly accurate dimensions
- Superior EMI characteristics with ultra low radiation comparing to conventional shielded power inductors
- Halogen free

Applications

- Smart phone
- DSC
- Tablet PC and other portable devices
- DC/DC converters

Product Identification



Shape and Dimensions

Figure 1

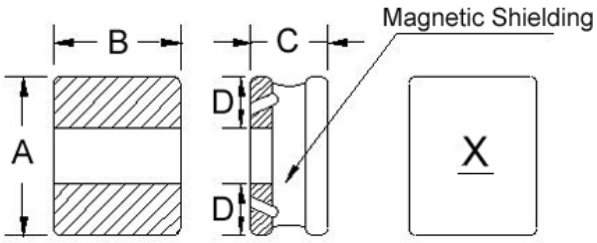
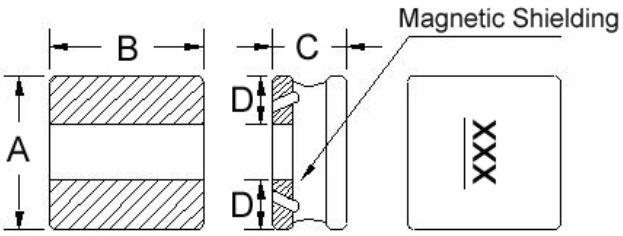


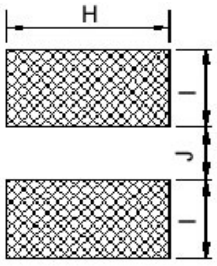
Figure 2



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
LVF201B12	1	2.0±0.25	1.6±0.25	1.2±0.05	0.6	1.8	0.8	0.8
LVF252A10	1	2.5±0.25	2.0±0.25	1.02 Max	0.8	2.2	0.85	0.8
LVF252A12	1	2.5±0.25	2.0±0.25	1.2±0.05	0.8	2.2	0.85	0.8
LVF303010	2	3.0±0.20	3.0±0.20	1.02 Max	1.0	3.2	1.1	1.0
LVF303012	2	3.0±0.20	3.0±0.20	1.2 Max	1.0	3.2	1.1	1.0
LVF303015	2	3.0±0.20	3.0±0.20	1.5 Max	1.0	3.2	1.1	1.0
LVF404012	2	4.0±0.20	4.0±0.20	1.2±0.1	1.5	4.2	1.5	1.2

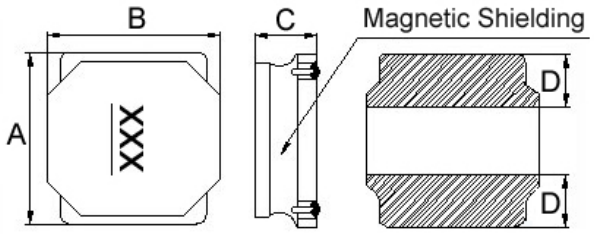
Recommended Pattern



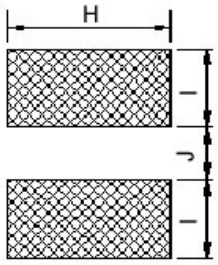
CHILISIN ELECTRONICS CORP.

Shape and Dimensions

Figure 3



Recommended Pattern



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
LVF404015	3	4.0±0.25	4.0±0.25	1.5±0.2	1.3	3.7	1.5	1.2
LVF404018	3	4.0±0.20	4.0±0.20	1.8±0.2	1.3	3.7	1.5	1.2
LVF404026	3	4.0±0.20	4.0±0.25	2.6±0.2	1.4	3.7	1.6	1.2
LVF606028	3	6.0±0.20	6.0±0.20	2.8±0.2	1.9±0.3	5.7	1.8	2.6

Shapes and Dimensions

Figure 4

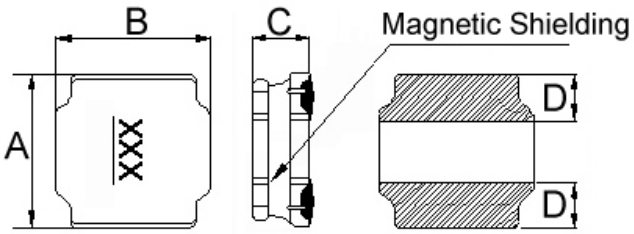
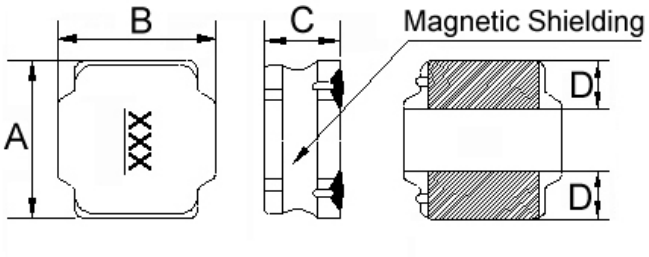
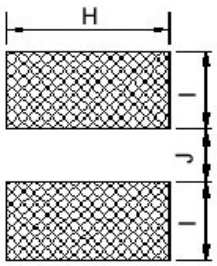


Figure 5



Recommended Pattern



Dimensions in mm

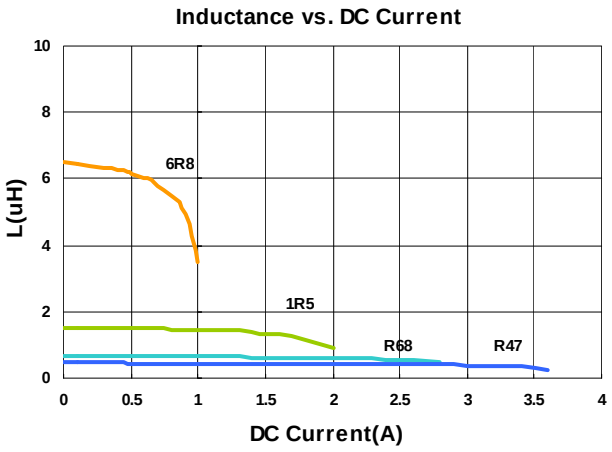
TYPE	FIG	A	B	C	D	H	I	J
LVF505020	4	5.0±0.20	5.0±0.20	2.0±0.2	1.8	4.2	1.6	2.0
LVF606020	4	6.0±0.20	6.0±0.20	2.0±0.2	1.7±0.3	5.7	1.7	2.8
LVF808040	5	8.0±0.20	8.0±0.20	4.0±0.2	2.5	5.8	2.5	3.4

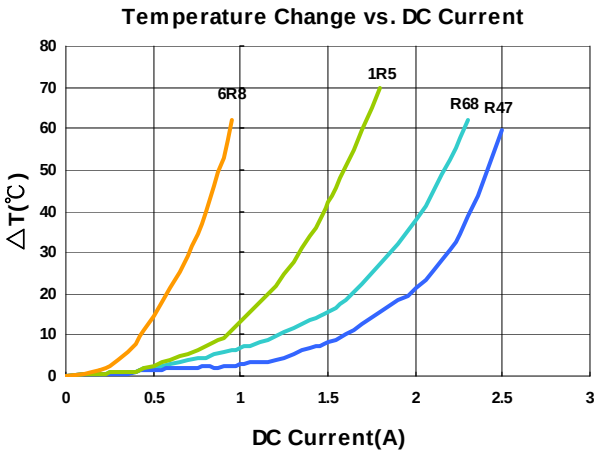
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVF201B12-R47□-N	0.47	1	20, 30	0.051	2.70(2.43)	2.30(2.07)	A
LVF201B12-R68□-N	0.68	1	20, 30	0.074	2.20(1.98)	2.00(1.80)	L
LVF201B12-1R5□-N	1.5	1	20, 30	0.130	1.60(1.44)	1.45(1.30)	D
LVF201B12-6R8□-N	6.8	1	20, 30	0.465	0.82(0.73)	0.78(0.70)	H

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





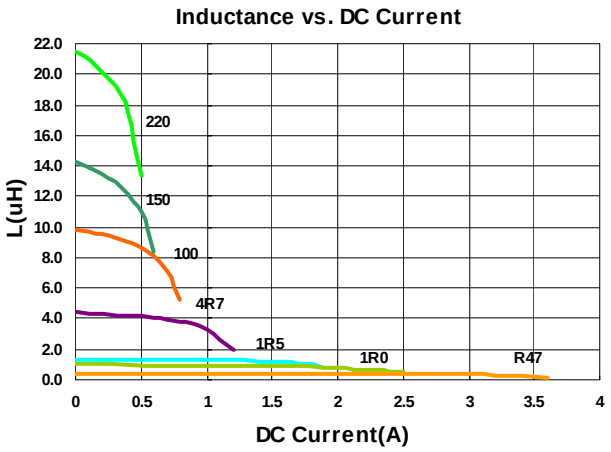
CHILISIN ELECTRONICS CORP.

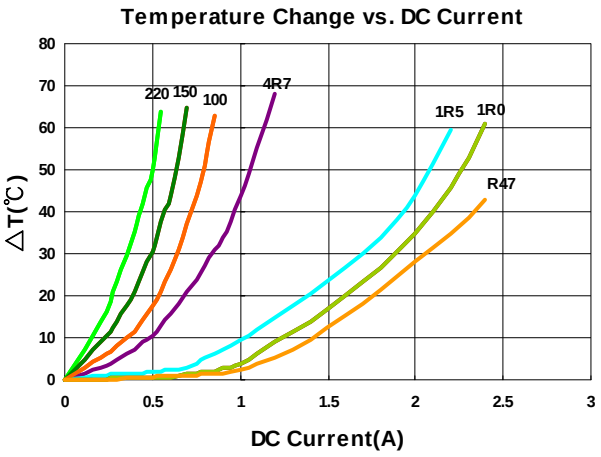
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVF252A10-R47□-N	0.47	1	20, 30	0.045	2.80(2.52)	2.30(2.07)	A
LVF252A10-1R0□-N	1.0	1	20, 30	0.066	1.98(1.78)	2.05(1.84)	B
LVF252A10-1R5□-N	1.5	1	20, 30	0.095	1.70(1.53)	1.85(1.66)	C
LVF252A10-4R7□-N	4.7	1	20, 30	0.285	0.92(0.82)	0.95(0.85)	F
LVF252A10-100□-N	10	1	20, 30	0.535	0.60(0.54)	0.70(0.63)	H
LVF252A10-150□-N	15	1	20, 30	0.810	0.50(0.45)	0.55(0.49)	I
LVF252A10-220□-N	22	1	20, 30	1.200	0.40(0.36)	0.44(0.39)	J

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer



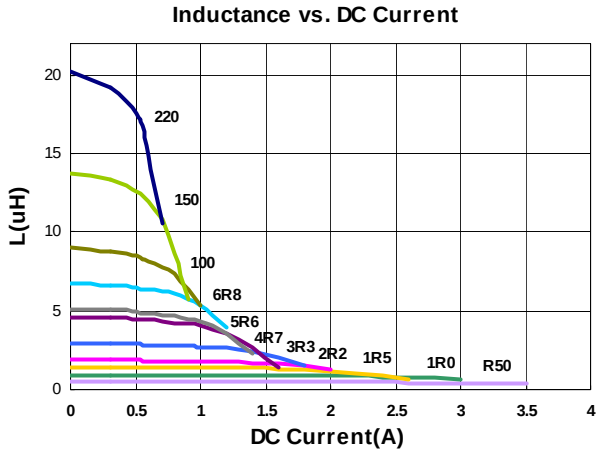


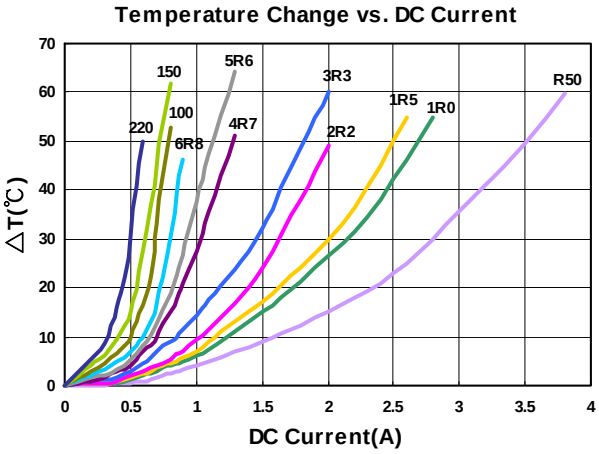
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVF252A12-R50□-N	0.50	1	20, 30	0.028	3.50(3.15)	3.00(2.70)	B
LVF252A12-1R0□-N	1.0	1	20, 30	0.050	2.50(2.25)	2.40(2.16)	C
LVF252A12-1R2□-N	1.2	1	20, 30	0.053	2.10(1.89)	2.35(2.11)	D
LVF252A12-1R5□-N	1.5	1	20, 30	0.068	1.95(1.75)	2.30(2.07)	E
LVF252A12-2R2□-N	2.2	1	20, 30	0.080	1.80(1.62)	1.80(1.62)	F
LVF252A12-3R3□-N	3.3	1	20, 30	0.130	1.45(1.30)	1.50(1.35)	G
LVF252A12-4R7□-N	4.7	1	20, 30	0.190	1.10(0.99)	1.10(0.99)	H
LVF252A12-5R6□-N	5.6	1	20, 30	0.210	1.05(0.94)	1.00(0.90)	I
LVF252A12-6R8□-N	6.8	1	20, 30	0.300	0.95(0.85)	0.80(0.72)	J
LVF252A12-100□-N	10	1	20, 30	0.385	0.88(0.79)	0.70(0.63)	K
LVF252A12-150□-N	15	1	20, 30	0.570	0.68(0.61)	0.62(0.55)	L
LVF252A12-220□-N	22	1	20, 30	0.810	0.55(0.49)	0.53(0.47)	M

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





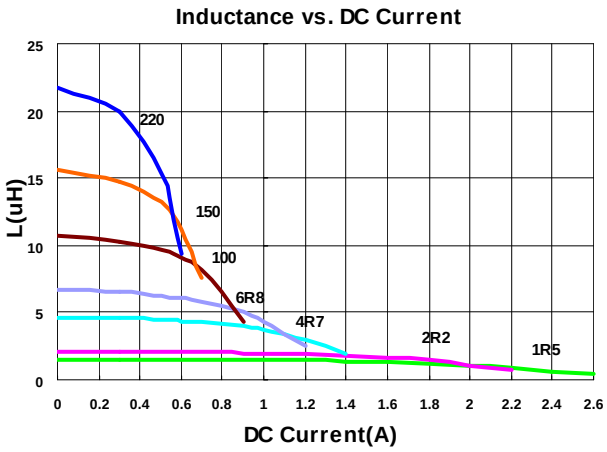
CHILISIN ELECTRONICS CORP.

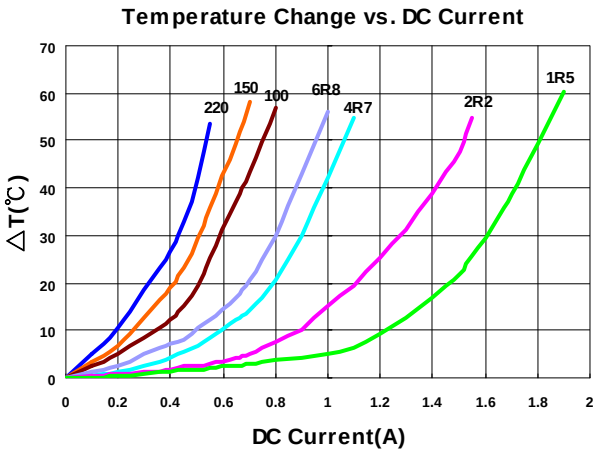
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVF303010-1R5□-N	1.5	1	20, 30	0.085	1.80(1.62)	1.70(1.53)	1R5
LVF303010-2R2□-N	2.2	1	20, 30	0.100	1.50(1.35)	1.40(1.26)	2R2
LVF303010-4R7□-N	4.7	1	20, 30	0.205	1.00(0.90)	0.95(0.85)	4R7
LVF303010-6R8□-N	6.8	1	20, 30	0.310	0.87(0.78)	0.85(0.76)	6R8
LVF303010-100□-N	10	1	20, 30	0.430	0.64(0.57)	0.63(0.56)	100
LVF303010-150□-N	15	1	20, 30	0.625	0.56(0.50)	0.55(0.49)	150
LVF303010-220□-N	22	1	20, 30	0.870	0.47(0.42)	0.46(0.41)	220

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





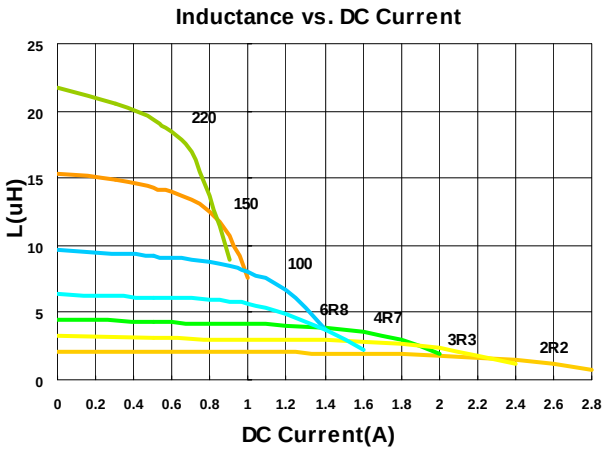
CHILISIN ELECTRONICS CORP.

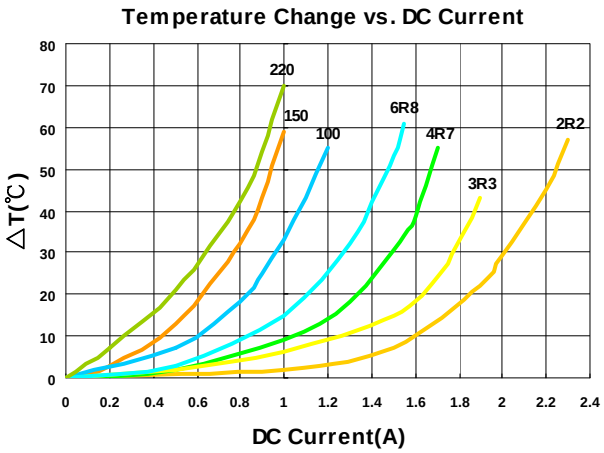
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVF303012-2R2□-N	2.2	1	20, 30	0.092	2.10(1.89)	2.00(1.80)	2R2
LVF303012-3R3□-N	3.3	1	20, 30	0.13	1.84(1.65)	1.80(1.62)	3R3
LVF303012-4R7□-N	4.7	1	20, 30	0.18	1.56(1.40)	1.52(1.36)	4R7
LVF303012-6R8□-N	6.8	1	20, 30	0.25	1.32(1.18)	1.30(1.17)	6R8
LVF303012-100□-N	10	1	20, 30	0.42	1.06(0.95)	1.00(0.90)	100
LVF303012-150□-N	15	1	20, 30	0.56	0.82(0.73)	0.80(0.72)	150
LVF303012-220□-N	22	1	20, 30	0.86	0.64(0.57)	0.62(0.55)	220

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





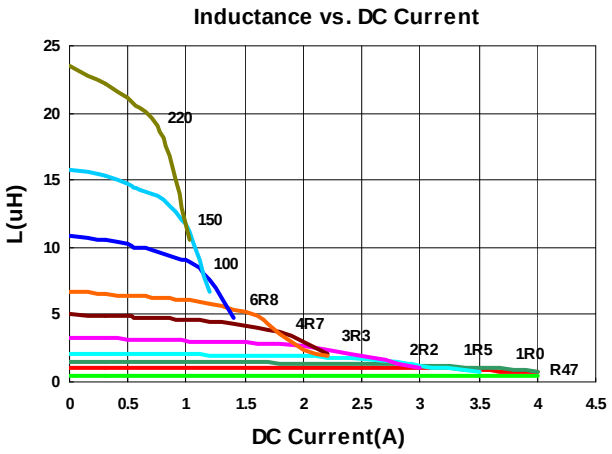
CHILISIN ELECTRONICS CORP.

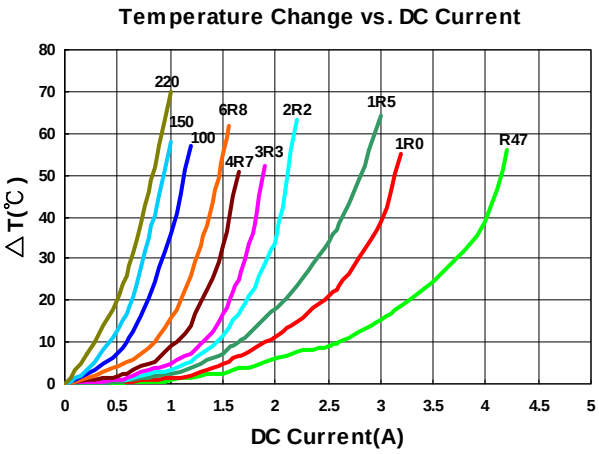
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVF303015-R47□-N	0.47	1	20, 30	0.036	4.7(4.23)	4.0(3.60)	R47
LVF303015-1R0□-N	1.0	1	20, 30	0.054	3.4(3.06)	3.0(2.70)	1R0
LVF303015-1R5□-N	1.5	1	20, 30	0.063	3.0(2.70)	2.6(2.34)	1R5
LVF303015-2R2□-N	2.2	1	20, 30	0.090	2.3(2.07)	2.0(1.80)	2R2
LVF303015-3R3□-N	3.3	1	20, 30	0.125	1.9(1.71)	1.80(1.62)	3R3
LVF303015-4R7□-N	4.7	1	20, 30	0.170	1.58(1.42)	1.52(1.36)	4R7
LVF303015-6R8□-N	6.8	1	20, 30	0.235	1.34(1.20)	1.30(1.17)	6R8
LVF303015-100□-N	10	1	20, 30	0.360	1.06(0.95)	1.00(0.90)	100
LVF303015-150□-N	15	1	20, 30	0.550	0.90(0.81)	0.80(0.72)	150
LVF303015-220□-N	22	1	20, 30	0.770	0.76(0.68)	0.65(0.58)	220

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





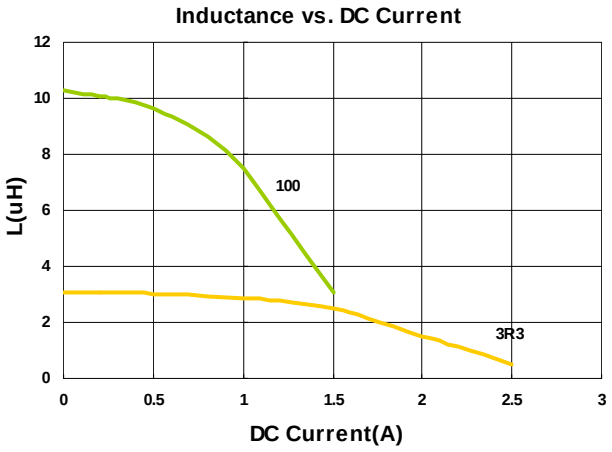
CHILISIN ELECTRONICS CORP.

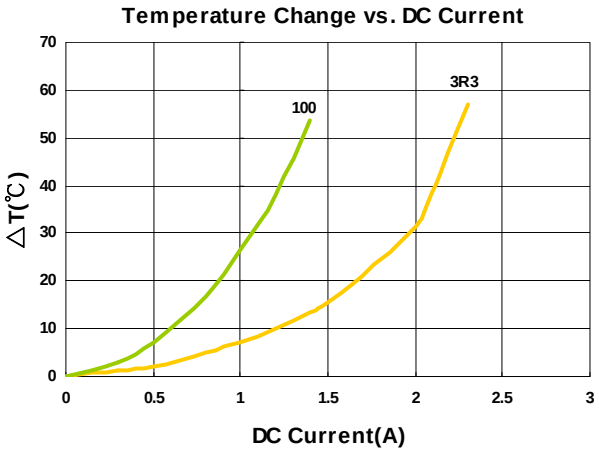
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVF404012-3R3□-N	3.3	1	20, 30	0.072	1.52(1.36)	2.10(1.89)	3R3
LVF404012-100□-N	10	1	20, 30	0.190	0.90(0.81)	1.20(1.08)	100

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer



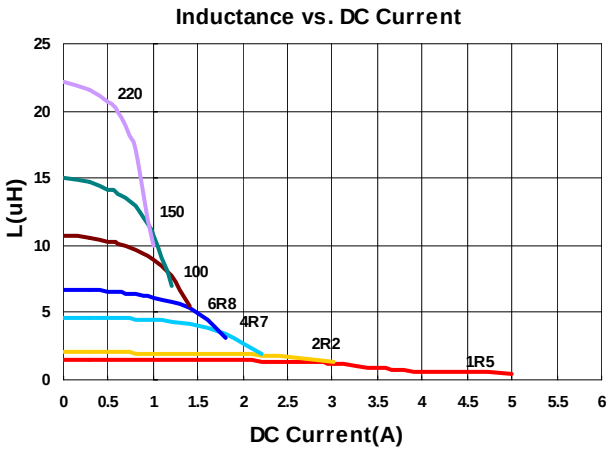


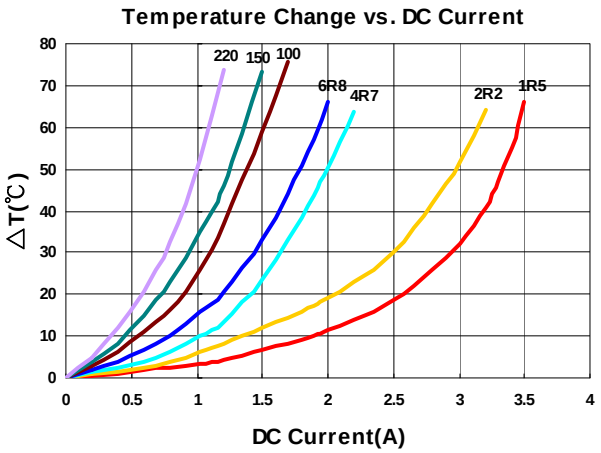
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVF404015-1R5□-N	1.5	1	20, 30	0.041	3.00(2.70)	3.2(2.88)	1R5
LVF404015-2R2□-N	2.2	1	20, 30	0.054	2.30(2.07)	2.60(2.34)	2R2
LVF404015-4R7□-N	4.7	1	20, 30	0.100	1.60(1.44)	1.80(1.62)	4R7
LVF404015-6R8□-N	6.8	1	20, 30	0.138	1.40(1.26)	1.60(1.44)	6R8
LVF404015-100□-N	10	1	20, 30	0.200	1.00(0.90)	1.20(1.08)	100
LVF404015-150□-N	15	1	20, 30	0.300	0.92(0.82)	1.05(0.94)	150
LVF404015-220□-N	22	1	20, 30	0.400	0.72(0.64)	0.85(0.76)	220

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





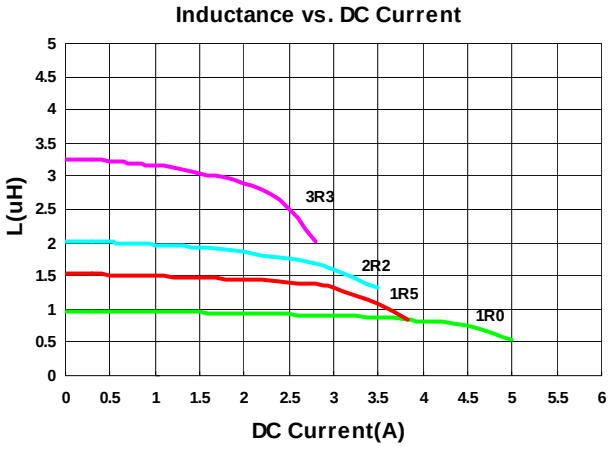
CHILISIN ELECTRONICS CORP.

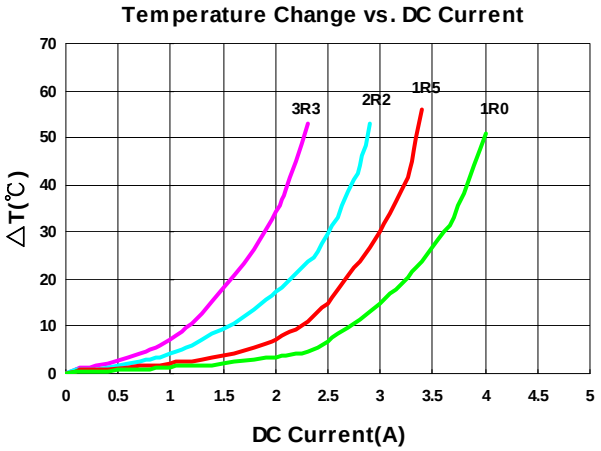
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVF404018-1R0□-N	1.0	100	20, 30	0.0265	4.2(3.78)	3.8(3.42)	1R0
LVF404018-1R5□-N	1.5	100	20, 30	0.0370	3.5(3.15)	3.2(2.88)	1R5
LVF404018-2R2□-N	2.2	100	20, 30	0.0470	3.0(2.70)	2.7(2.43)	2R2
LVF404018-3R3□-N	3.3	100	20, 30	0.0625	2.3(2.07)	2.1(1.89)	3R3

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4284A+ Agilent/HP16334A, 100KHz, 1V
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 100KHz 1V
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





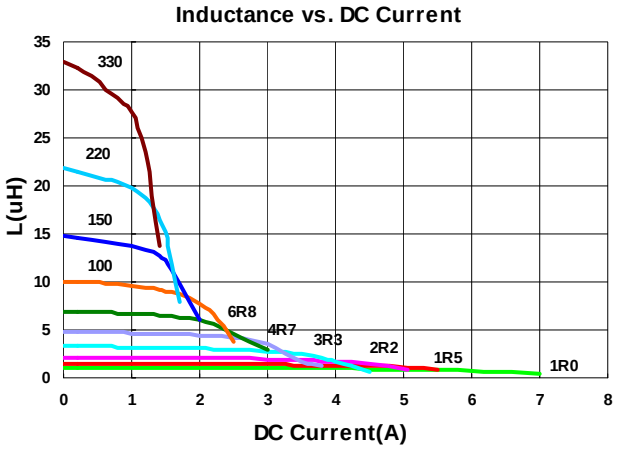
CHILISIN ELECTRONICS CORP.

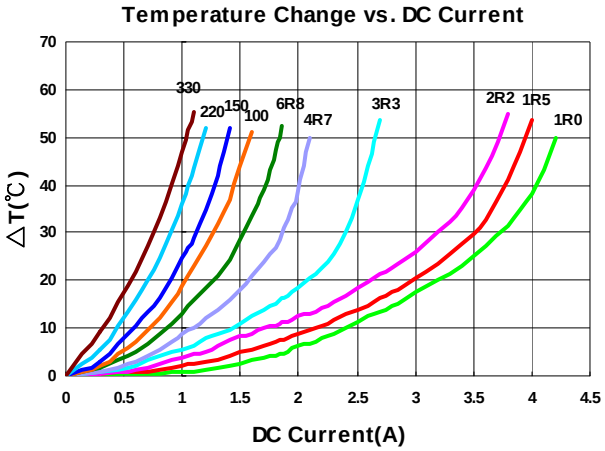
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVF404026-1R0□-N	1.0	100	20, 30	0.030	5.00(4.50)	4.00(3.60)	1R0
LVF404026-1R5□-N	1.5	100	20, 30	0.035	4.20(3.78)	3.70(3.33)	1R5
LVF404026-2R2□-N	2.2	100	20, 30	0.045	3.80(3.42)	3.50(3.15)	2R2
LVF404026-3R3□-N	3.3	100	20, 30	0.067	3.00(2.70)	2.50(2.25)	3R3
LVF404026-4R7□-N	4.7	100	20, 30	0.092	2.60(2.34)	2.00(1.80)	4R7
LVF404026-5R6□-N	5.6	100	20, 30	0.110	2.30(2.07)	1.90(1.71)	5R6
LVF404026-6R8□-N	6.8	100	20, 30	0.130	2.00(1.80)	1.70(1.53)	6R8
LVF404026-100□-N	10	100	20, 30	0.188	1.90(1.71)	1.40(1.26)	100
LVF404026-150□-N	15	100	20, 30	0.240	1.45(1.30)	1.20(1.08)	150
LVF404026-220□-N	22	100	20, 30	0.330	1.22(1.09)	1.00(0.90)	220
LVF404026-330□-N	33	100	20, 30	0.480	1.00(0.90)	0.82(0.73)	330

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4284A+ Agilent/HP16334A, 100KHz, 1V
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 100KHz 1V
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





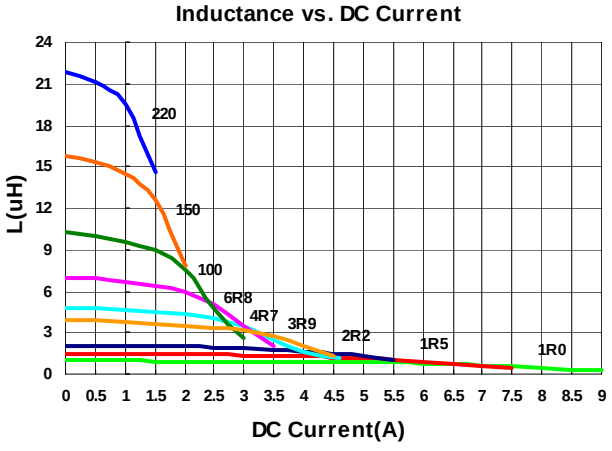
CHILISIN ELECTRONICS CORP.

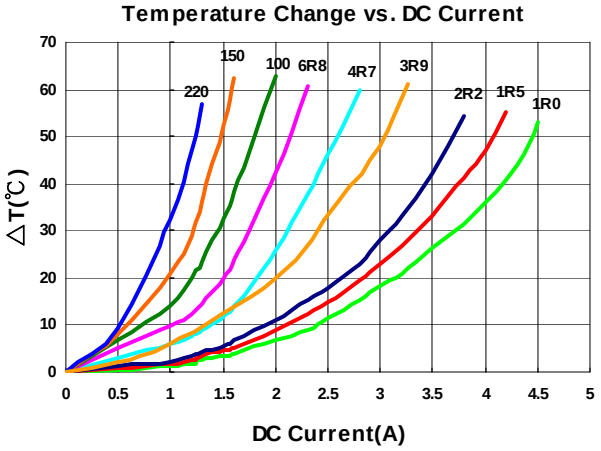
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVF505020-1R0□-N	1.0	100	20, 30	0.018	6.0(5.40)	4.1(3.69)	1R0
LVF505020-1R5□-N	1.5	100	20, 30	0.023	4.9(4.41)	3.5(3.15)	1R5
LVF505020-2R2□-N	2.2	100	20, 30	0.030	4.0(3.60)	3.3(2.97)	2R2
LVF505020-3R9□-N	3.9	100	20, 30	0.053	2.9(2.61)	2.6(2.34)	3R9
LVF505020-4R7□-N	4.7	100	20, 30	0.060	2.7(2.43)	2.2(1.98)	4R7
LVF505020-6R8□-N	6.8	100	20, 30	0.093	2.2(1.98)	1.8(1.62)	6R8
LVF505020-100□-N	10	100	20, 30	0.125	1.8(1.62)	1.6(1.44)	100
LVF505020-150□-N	15	100	20, 30	0.195	1.4(1.26)	1.2(1.08)	150
LVF505020-220□-N	22	100	20, 30	0.265	1.2(1.08)	1.0(0.90)	220

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4284A+ Agilent/HP16334A, 100KHz, 1V
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 100KHz 1V
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





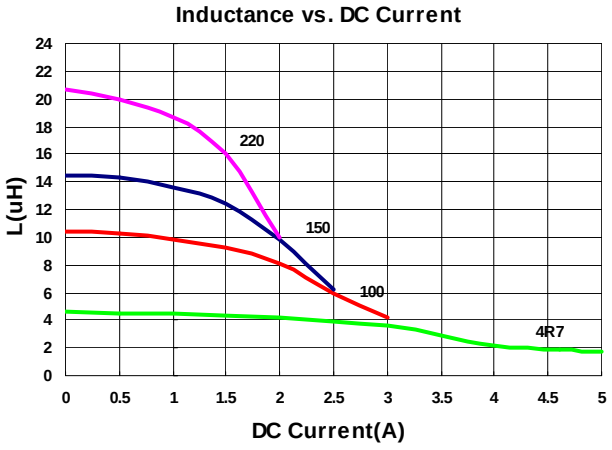
CHILISIN ELECTRONICS CORP.

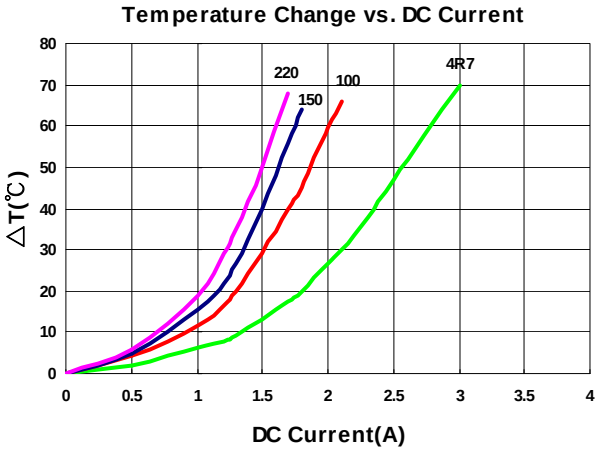
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVF606020-4R7□-N	4.7	100	20, 30	0.058	3.0(2.70)	2.3(2.07)	4R7
LVF606020-100□-N	10	100	20, 30	0.130	2.1(1.89)	1.6(1.44)	100
LVF606020-150□-N	15	100	20, 30	0.195	1.6(1.44)	1.3(1.17)	150
LVF606020-220□-N	22	100	20, 30	0.260	1.3(1.17)	1.1(0.99)	220

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4284A+ Agilent/HP16334A, 100KHz, 1V
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 100KHz 1V
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





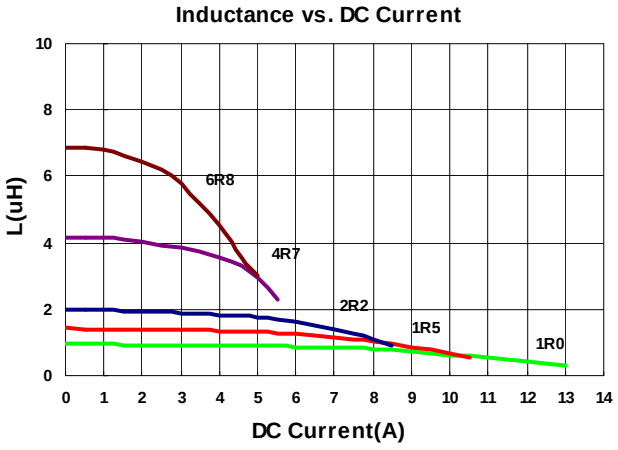
CHILISIN ELECTRONICS CORP.

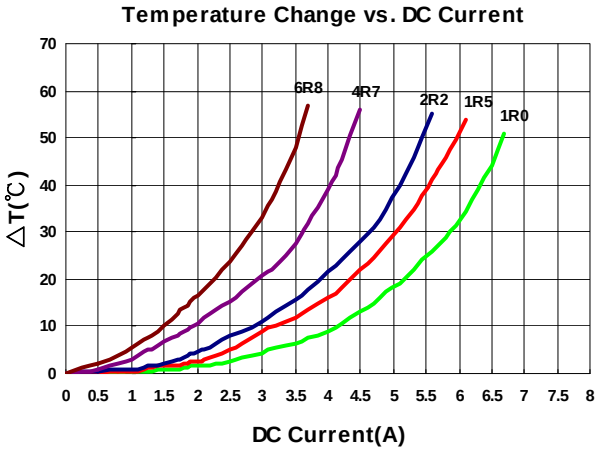
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVF606028-1R0□-N	1.0	100	20, 30	0.012	7.9(7.11)	6.3(5.67)	1R0
LVF606028-1R5□-N	1.5	100	20, 30	0.015	7.0(6.30)	5.5(4.95)	1R5
LVF606028-2R2□-N	2.2	100	20, 30	0.020	6.0(5.40)	5.0(4.50)	2R2
LVF606028-4R7□-N	4.7	100	20, 30	0.036	4.0(3.60)	3.4(3.06)	4R7
LVF606028-6R8□-N	6.8	100	20, 30	0.048	3.2(2.88)	3.0(2.70)	6R8

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4284A+ Agilent/HP16334A, 100KHz, 1V
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 100KHz 1V
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





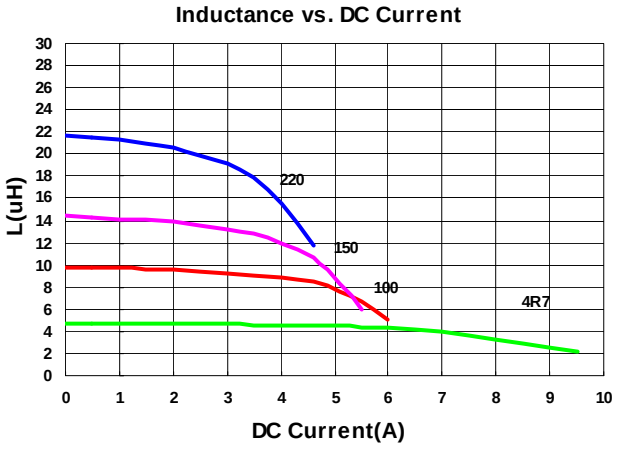
CHILISIN ELECTRONICS CORP.

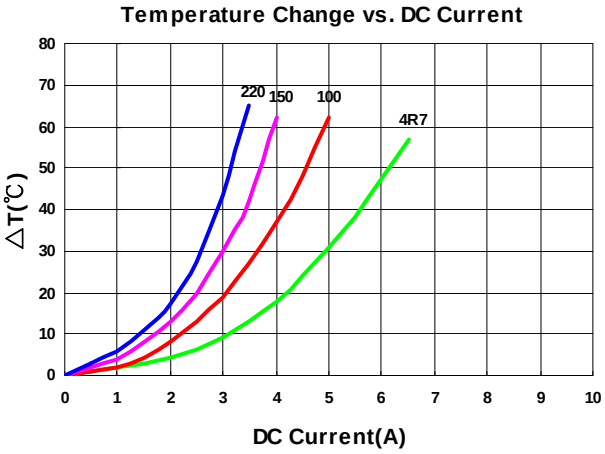
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVF808040-4R7□-N	4.7	100	20, 30	0.020	6.8(6.12)	5.5(4.95)	4R7
LVF808040-100□-N	10	100	20, 30	0.038	5.0(4.50)	3.8(3.42)	100
LVF808040-150□-N	15	100	20, 30	0.057	4.0(3.60)	3.2(2.88)	150
LVF808040-220□-N	22	100	20, 30	0.082	3.4(3.06)	2.7(2.43)	220

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4284A+ Agilent/HP16334A, 100KHz, 1V
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 100KHz 1V
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer



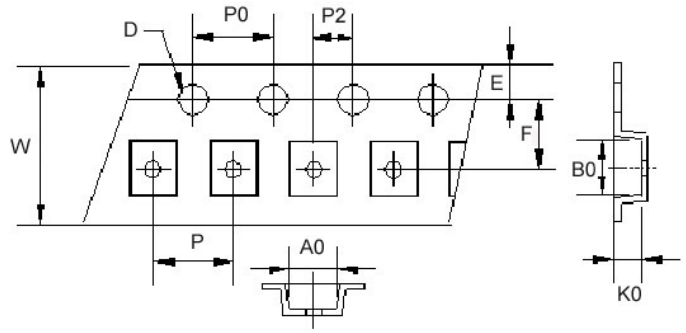


CHILISIN ELECTRONICS CORP.

Packaging Specifications

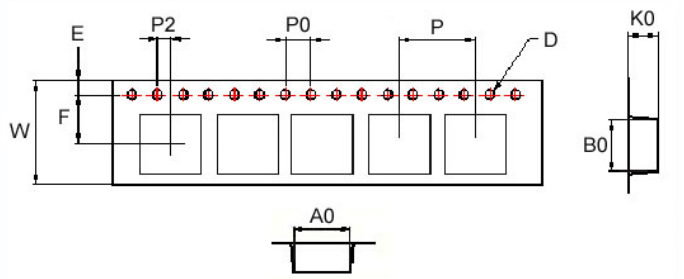
Tape Dimensions

Figure 1



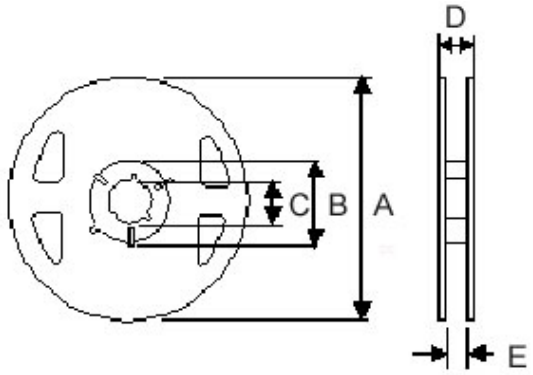
Tape Dimensions

Figure 2



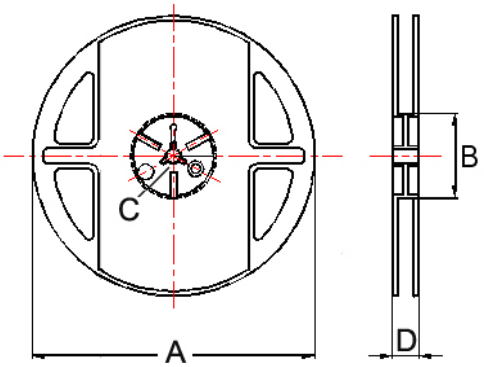
Reel Dimensions

Figure 1



Reel Dimensions

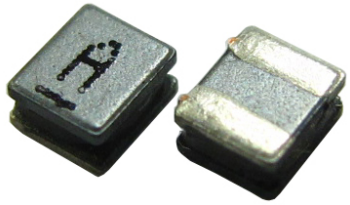
Figure 2



Dimensions in mm

TYPE	Fig	Tape Dimensions										Reel Dimensions					Quantity
		A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	PCS / Reel
LVF201B12	1	1.90	2.20	1.30	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
LVF252A10	1	2.40	2.70	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
LVF252A12	1	2.40	2.70	1.30	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
LVF303010	1	3.20	3.20	1.40	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
LVF303012	1	3.20	3.20	1.40	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
LVF303015	1	3.15	3.15	1.60	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
LVF404012	2	4.25	4.25	1.30	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
LVF404015	2	4.25	4.25	1.70	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
LVF404018	2	4.25	4.25	2.10	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	800
LVF404026	2	4.25	4.25	3.00	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	500
LVF505020	2	5.25	5.25	2.20	1.55	1.75	5.5	12	8	4	2	330	100	13	17.4	-	2000
LVF606020	2	6.25	6.25	2.20	1.55	1.75	5.5	16	8	4	2	330	100	13	17.4	-	2000
LVF606028	2	6.25	6.25	3.00	1.55	1.75	5.5	16	8	4	2	330	100	13	17.4	-	1500
LVF808040	2	8.25	8.25	4.15	1.55	1.75	5.5	16	8	4	2	330	100	13	17.4	-	1000

LVT Series



LVT series, an automatic assembly constructed power inductor, is shielded with magnetic resin and suitable for portable DC-DC converter applications.

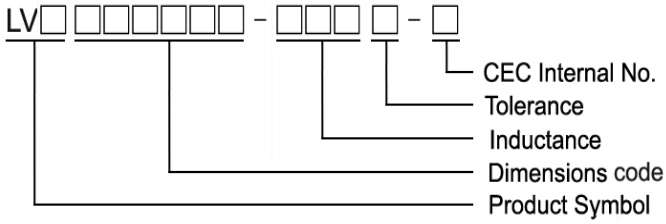
Features

- RoHS compliant
- Low DC resistance and high current
- Highly accurate dimensions
- Superior EMI characteristics electrical with ultra low radiation comparing to conventional shielded power inductors
- Halogen free

Applications

- Smartphone
- DSC
- Tablet PC and other portable devices
- DC/DC converters

Product Identification



Shape and Dimensions

Figure 1

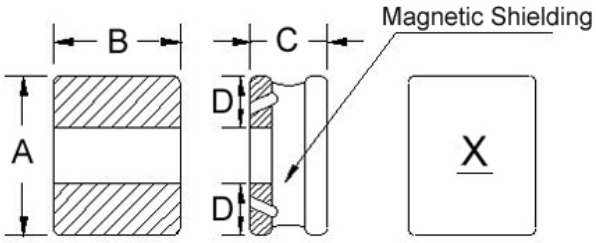
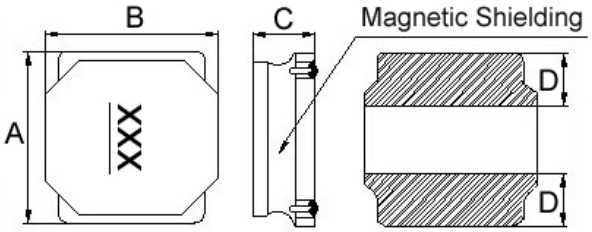


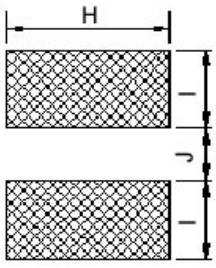
Figure 2



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
LVT201B10	1	2.0±0.25	1.6±0.25	1.02 Max	0.6	1.8	0.80	0.8
LVT252A10	1	2.5±0.25	2.0±0.25	1.02 Max	0.8	2.2	0.85	0.8
LVT252A12	1	2.5±0.25	2.0±0.25	1.2±0.05	0.8	2.2	0.85	0.8
LVT303010	1	3.0±0.20	3.0±0.20	1.02 Max	1.0	3.2	1.1	1.0
LVT303012	1	3.0±0.20	3.0±0.20	1.20 Max	1.0	3.2	1.1	1.0
LVT404012	2	4.0±0.20	4.0±0.20	1.2±0.1	1.5	4.2	1.5	1.2
LVT404015	2	4.0±0.25	4.0±0.25	1.5±0.2	1.3	3.7	1.5	1.2
LVT404026	2	4.0±0.20	4.0±0.25	2.6±0.2	1.4	3.7	1.2	1.6

Recommended Pattern



CHILISIN ELECTRONICS CORP.

Shape and Dimensions

Figure 3

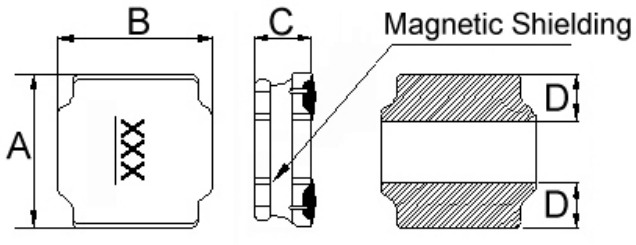
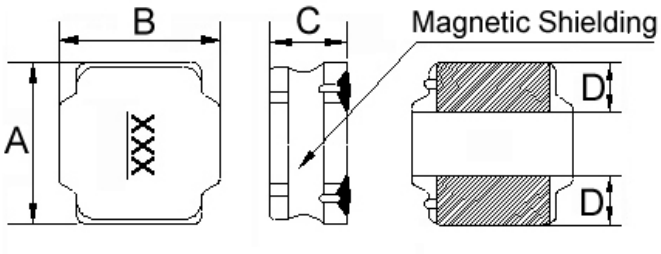


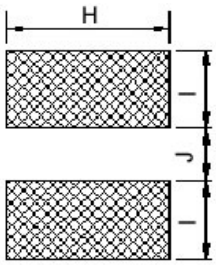
Figure 4



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
LVT505020	3	5.0±0.2	5.0±0.2	2.0±0.2	1.8±0.3	4.2	1.6	2.0
LVT606020	3	6.0±0.2	6.0±0.2	2.0±0.2	1.7±0.3	5.7	1.7	2.8
LVT808040	4	8.0±0.2	8.0±0.2	4.0±0.2	2.5	5.8	2.5	3.4

Recommended Pattern

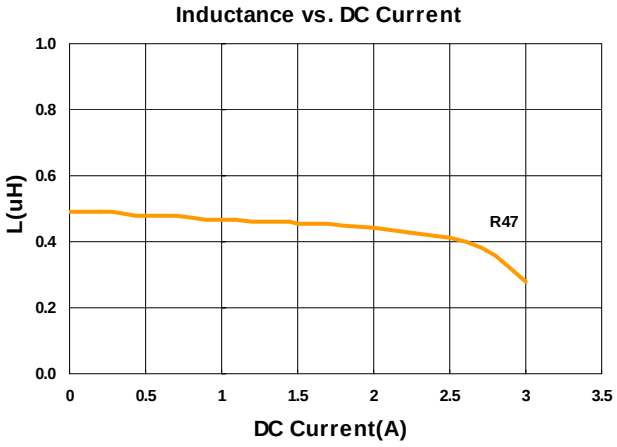


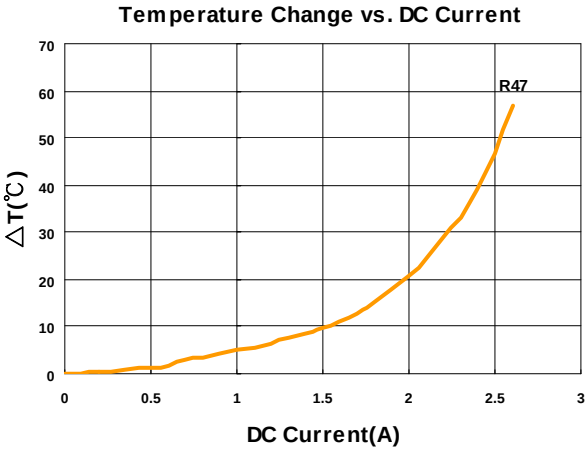
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVT201B10-R47□-N	0.47	1	20, 30	72	2.40(1.920)	2.40(1.920)	A

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer



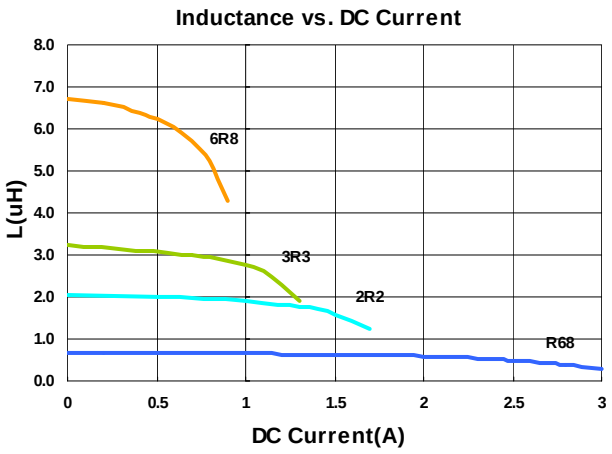


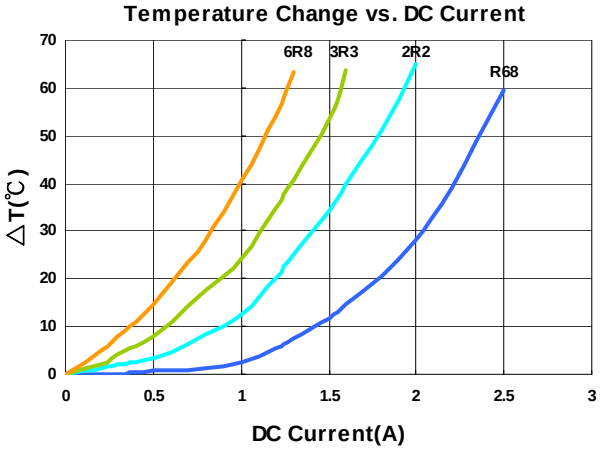
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVT252A10-R68□-N	0.68	1	20, 30	0.050	2.40(1.920)	2.20(1.760)	K
LVT252A10-2R2□-N	2.2	1	20, 30	0.135	1.42(1.136)	1.55(1.240)	D
LVT252A10-3R3□-N	3.3	1	20, 30	0.220	1.12(0.896)	1.20(0.960)	E
LVT252A10-6R8□-N	6.8	1	20, 30	0.435	0.78(0.624)	0.84(0.672)	G

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





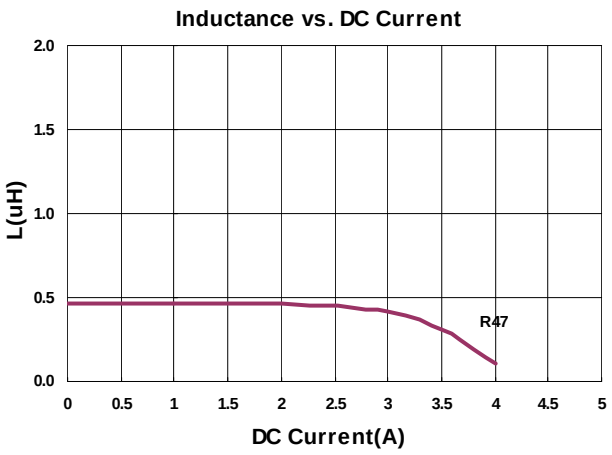
CHILISIN ELECTRONICS CORP.

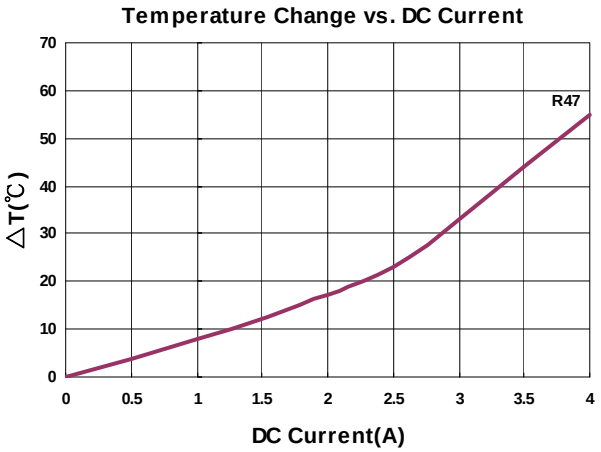
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVT252A12-R47□-N	0.47	1	20, 30	0.027	3.70(2.960)	3.10(2.480)	A

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer



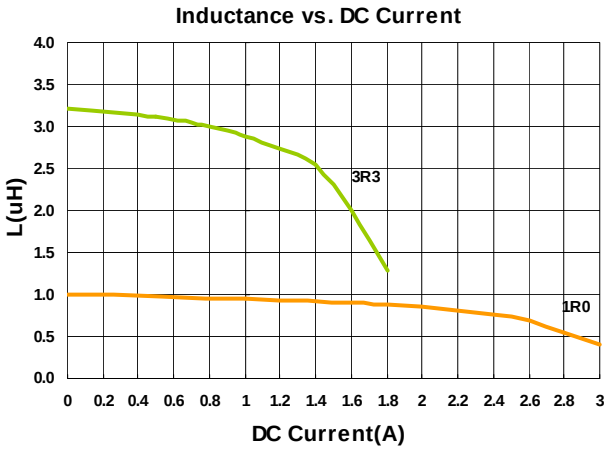


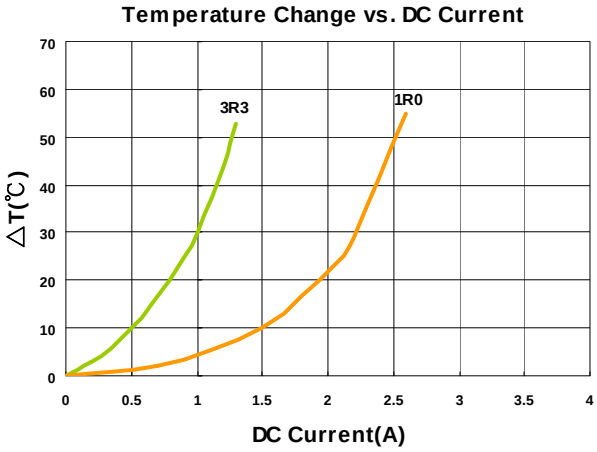
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVT303010-1R0□-N	1.0	1	20, 30	0.063	2.4(1.92)	2.3(1.84)	1R0
LVT303010-3R3□-N	3.3	1	20, 30	0.165	1.2(0.96)	1.1(0.88)	3R3

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer



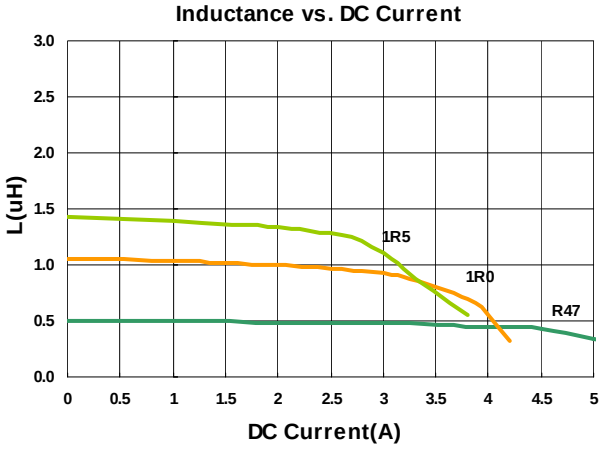


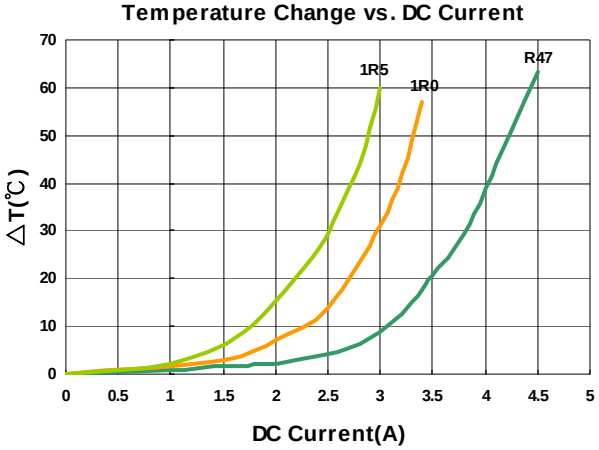
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVT303012-R47□-N	0.47	1	20, 30	0.032	4.3(3.44)	4.0(3.20)	R47
LVT303012-1R0□-N	1.0	1	20, 30	0.060	3.1(2.48)	3.0(2.40)	1R0
LVT303012-1R5□-N	1.5	1	20, 30	0.072	2.7(2.16)	2.6(2.08)	1R5

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer



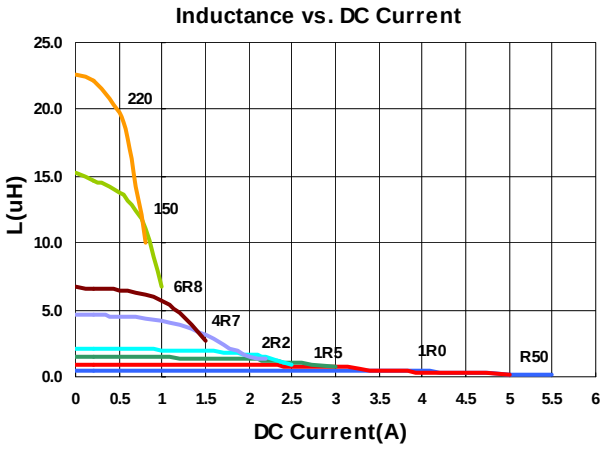


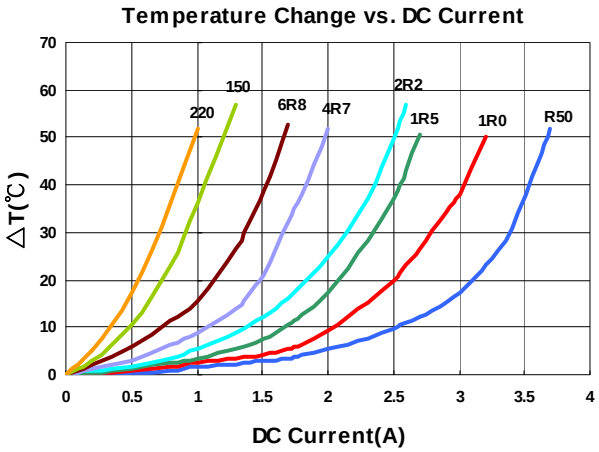
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVT404012-R50□-N	0.5	1	20, 30	0.030	3.90(3.12)	3.50(2.80)	R50
LVT404012-1R0□-N	1.0	1	20, 30	0.040	2.90(2.32)	3.00(2.40)	1R0
LVT404012-1R5□-N	1.5	1	20, 30	0.051	2.30(1.84)	2.50(2.00)	1R5
LVT404012-2R2□-N	2.2	1	20, 30	0.060	1.90(1.52)	2.30(1.84)	2R2
LVT404012-4R7□-N	4.7	1	20, 30	0.094	1.32(1.05)	1.80(1.44)	4R7
LVT404012-6R8□-N	6.8	1	20, 30	0.135	1.08(0.86)	1.50(1.20)	6R8
LVT404012-150□-N	15	1	20, 30	0.260	0.78(0.62)	1.00(0.80)	150
LVT404012-220□-N	22	1	20, 30	0.390	0.62(0.49)	0.80(0.64)	220

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer



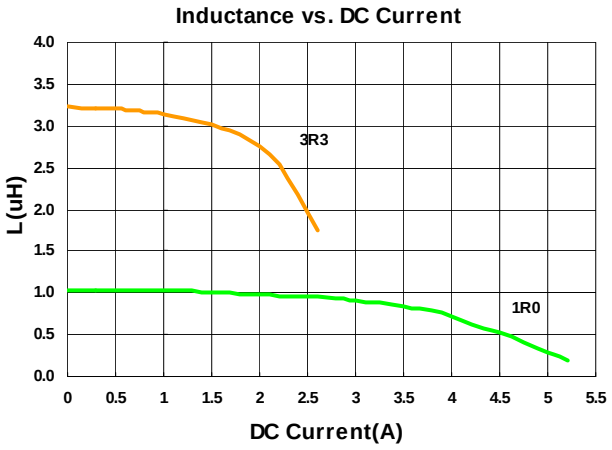


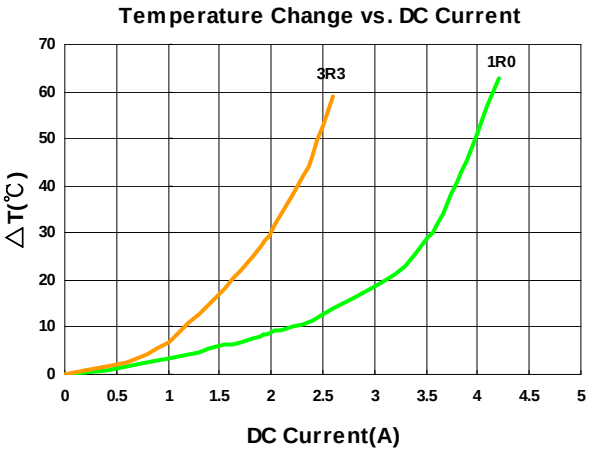
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVT404015-1R0□-N	1.0	1	20, 30	0.034	3.60(2.88)	3.70(2.96)	1R0
LVT404015-3R3□-N	3.3	1	20, 30	0.080	2.00(1.60)	2.20(1.76)	3R3

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





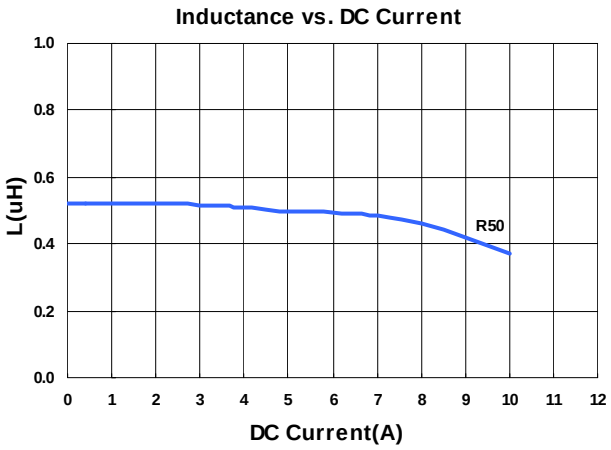
CHILISIN ELECTRONICS CORP.

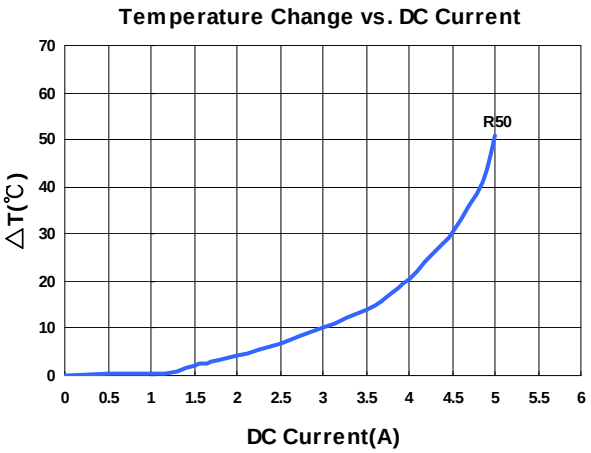
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVT404026-R50□-N	0.5	100	20, 30	0.024	7.20(5.76)	4.80(3.84)	R50

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4284A+ Agilent/HP16334A, 100KHz ,1V
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 100KHz 1V
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer



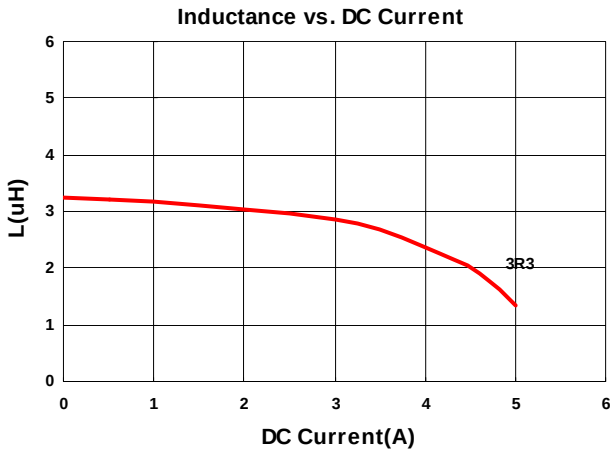


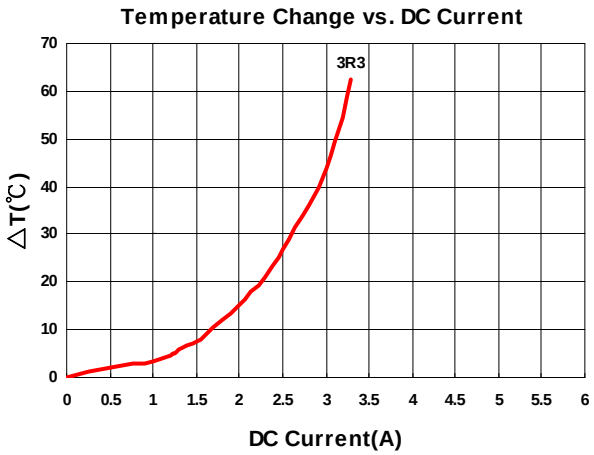
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVT505020-3R3□-N	3.3	100	20, 30	0.050	3.4(3.06)	2.7(2.43)	3R3

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4284A+ Agilent/HP16334A, 100KHz 1V
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 100KHz 1V
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





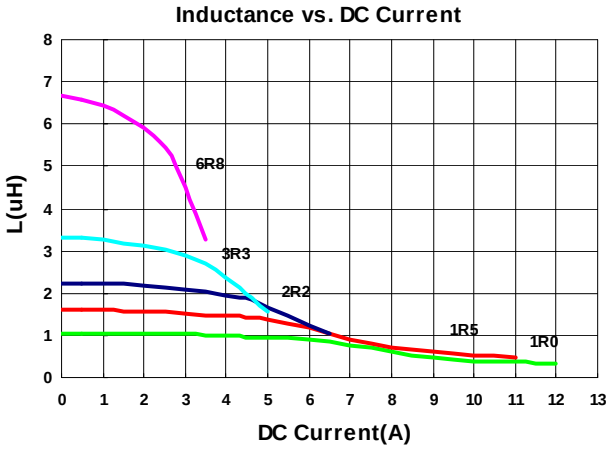
CHILISIN ELECTRONICS CORP.

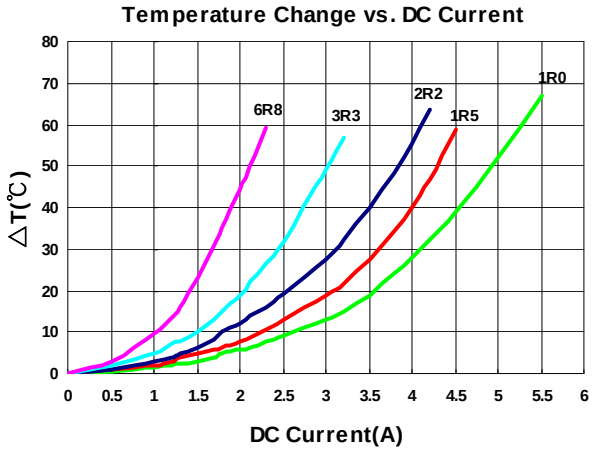
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVT606020-1R0□-N	1.0	100	20, 30	0.019	6.4(5.76)	4.2(3.78)	1R0
LVT606020-1R5□-N	1.5	100	20, 30	0.026	5.4(4.86)	3.7(3.33)	1R5
LVT606020-2R2□-N	2.2	100	20, 30	0.034	4.5(4.05)	3.3(2.97)	2R2
LVT606020-3R3□-N	3.3	100	20, 30	0.045	3.6(3.24)	2.8(2.52)	3R3
LVT606020-6R8□-N	6.8	100	20, 30	0.085	2.6(2.34)	1.9(1.71)	6R8

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4284A+ Agilent/HP16334A, 100KHz 1V
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 100KHz 1V
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





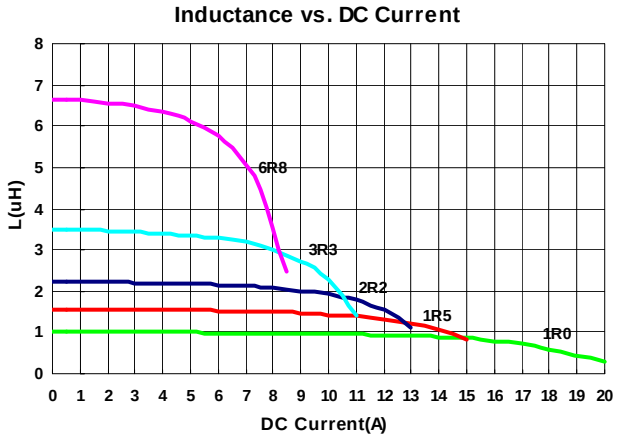
CHILISIN ELECTRONICS CORP.

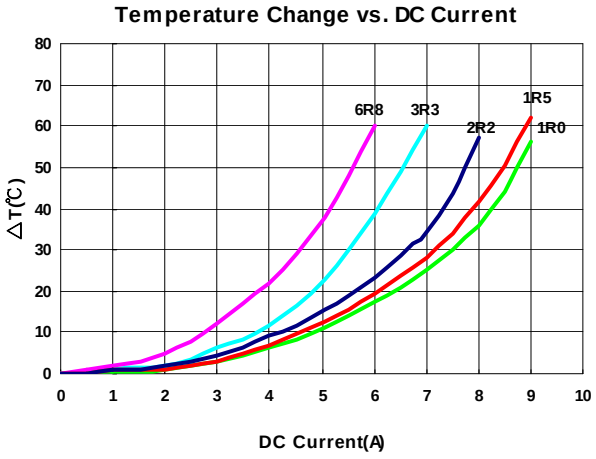
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVT808040-1R0□-N	1.0	100	30	0.0075	13.5(12.15)	8.1(7.29)	1R0
LVT808040-1R5□-N	1.5	100	20, 30	0.0097	10.5(9.45)	7.7(6.93)	1R5
LVT808040-2R2□-N	2.2	100	20, 30	0.012	9.7(8.73)	7.2(6.48)	2R2
LVT808040-3R3□-N	3.3	100	20, 30	0.047	8.0(7.20)	5.9(5.31)	3R3
LVT808040-6R8□-N	6.8	100	20, 30	0.029	5.8(5.22)	4.9(4.41)	6R8

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4284A+ Agilent/HP16334A, 100KHz 1V
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 100KHz 1V
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer



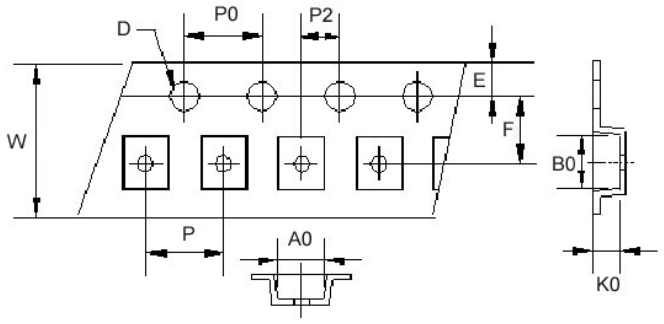


CHILISIN ELECTRONICS CORP.

Packaging Specifications

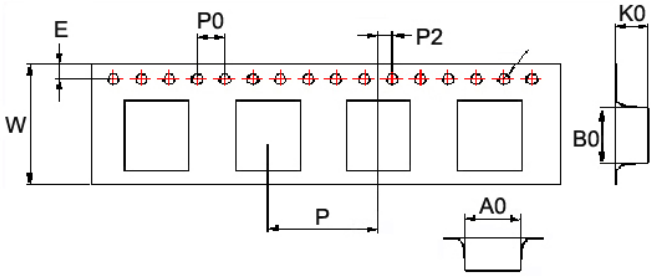
Tape Dimensions

Figure 1



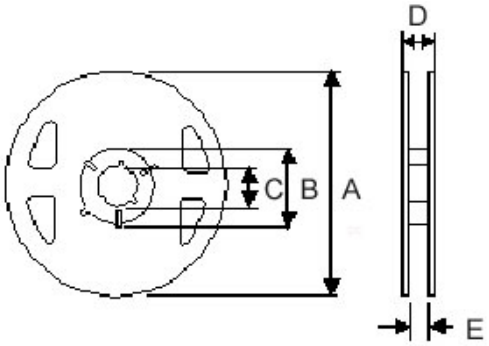
Tape Dimensions

Figure 2



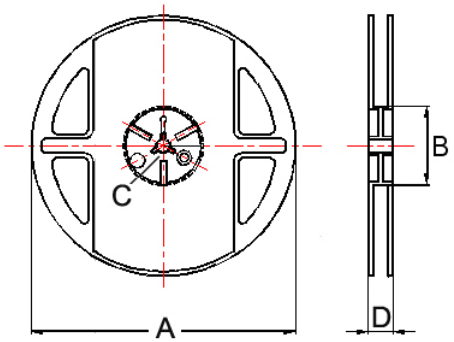
Reel Dimensions

Figure 1



Reel Dimensions

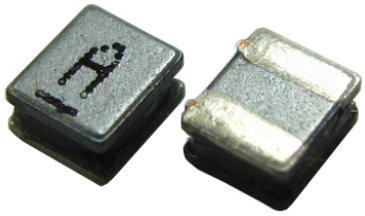
Figure 2



Dimensions in mm

TYPE	Fig	Tape Dimensions										Reel Dimensions					Quantity
		A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	PCS / Reel
LVT201B10	1	1.90	2.20	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
LVT252A10	1	2.40	2.70	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
LVT252A12	1	2.40	2.70	1.30	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
LVT303010	1	3.20	3.20	1.40	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
LVT303012	1	3.20	3.20	1.40	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
LVT404012	2	4.25	4.25	1.30	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
LVT404015	2	4.25	4.25	1.70	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
LVT404026	2	4.25	4.25	3.00	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	500
LVT505020	2	5.25	5.25	2.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	2000
LVT606020	2	6.25	6.25	2.20	1.55	1.75	7.5	16	8	4	2	330	100	13	17.4	-	2000
LVT808040	2	8.25	8.25	4.15	1.55	1.75	7.5	16	12	4	2	330	100	13	17.4	-	1000

LVC Series



LVC series, an automatic assembly constructed power inductor, is shielded with magnetic resin and suitable for portable DC-DC converter application.

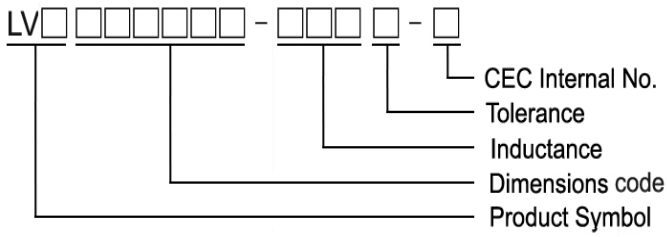
Features

- RoHS compliant
- Low DC resistance and high current
- Highly accurate dimensions
- Superior EMI characteristics with ultra low radiation comparing to conventional shielded power inductors
- Halogen free

Applications

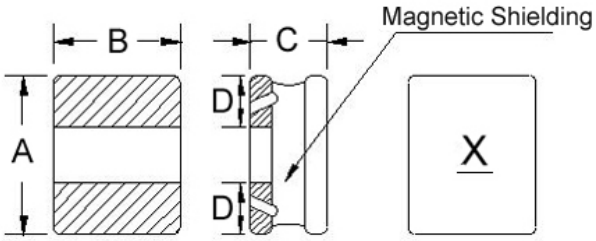
- Smart phone
- DSC
- Tablet PC and other portable devices
- DC/DC converters

Product Identification

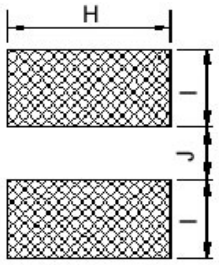


Shape and Dimensions

Figure 1



Recommended Pattern

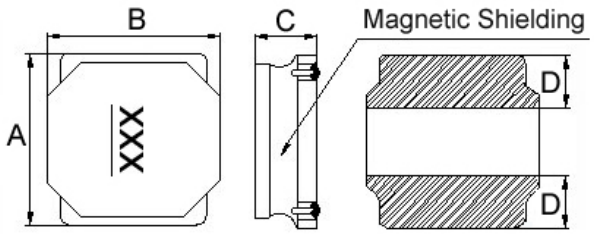


Dimensions in mm

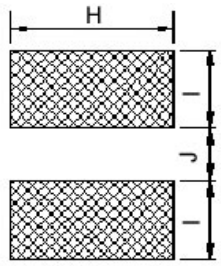
TYPE	FIG	A	B	C	D	H	I	J
LVC201B10	1	2.0±0.25	1.6±0.25	1.02 Max	0.6	1.8	0.80	0.8
LVC201B12	1	2.0±0.25	1.6±0.25	1.2±0.05	0.6	1.8	0.80	0.8
LVC252A12	1	2.5±0.25	2.0±0.25	1.2±0.05	0.8	2.2	0.85	0.8

Shape and Dimensions

Figure 2



Recommended Pattern



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
LVC404018	2	4.0±0.20	4.0±0.20	1.8±0.2	1.3	3.7	1.5	1.2
LVC606028	2	6.0±0.20	6.0±0.20	2.8±0.2	1.9±0.3	5.7	1.8	2.6

Shape and Dimensions

Figure 3

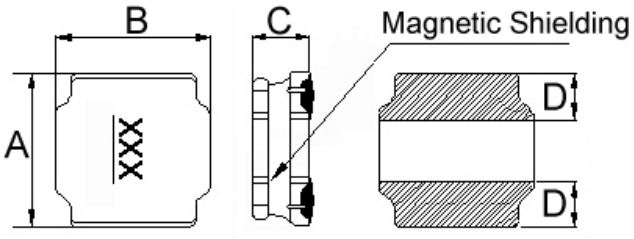
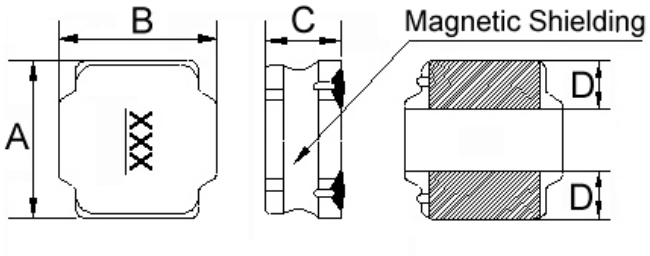
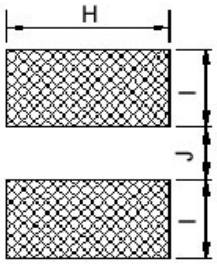


Figure 4



Recommended Pattern



Dimensions in mm

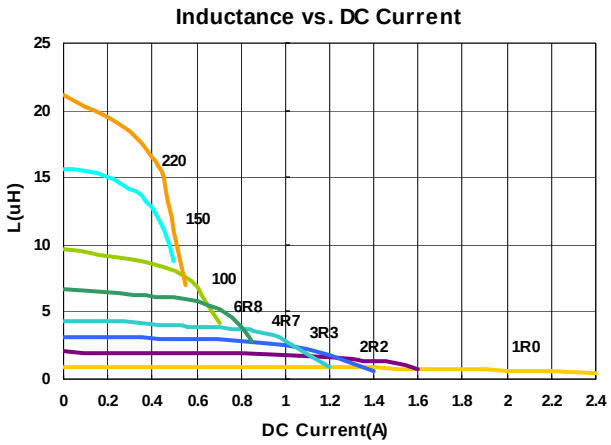
TYPE	FIG	A	B	C	D	H	I	J
LVC505040	3	5.0±0.20	5.0±0.20	4.0±0.2	1.5	4.2	1.6	2.0
LVC606045	4	6.0±0.20	6.0±0.20	4.5±0.2	1.8	4.5	2.0	2.4

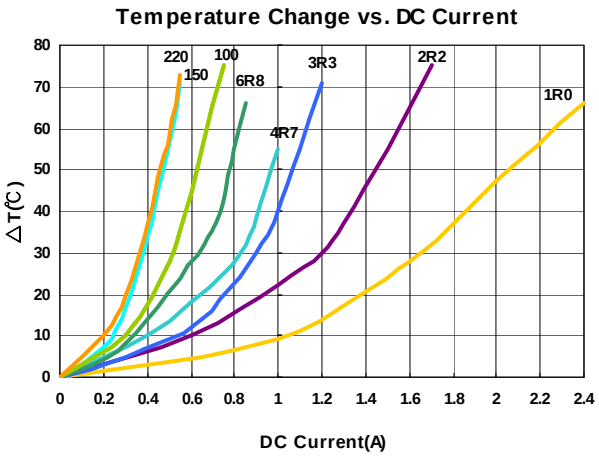
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVC201B10-1R0□-N	1.0	1	20, 30	95	1.86(1.67)	1.86(1.67)	B
LVC201B10-1R5□-N	1.5	1	20, 30	140	1.64(1.47)	1.65(1.48)	C
LVC201B10-2R2□-N	2.2	1	20, 30	190	1.30(1.17)	1.30(1.17)	D
LVC201B10-3R3□-N	3.3	1	20, 30	295	0.96(0.86)	0.98(0.88)	E
LVC201B10-4R7□-N	4.7	1	20, 30	360	0.84(0.75)	0.90(0.81)	F
LVC201B10-6R8□-N	6.8	1	20, 30	640	0.66(0.59)	0.70(0.63)	G
LVC201B10-100□-N	10	1	20, 30	1000	0.54(0.48)	0.56(0.50)	H
LVC201B10-150□-N	15	1	20, 30	1500	0.39(0.35)	0.42(0.37)	K
LVC201B10-180□-N	18	1	20, 30	1600	0.39(0.35)	0.41(0.36)	J
LVC201B10-220□-N	22	1	20, 30	1700	0.38(0.34)	0.40(0.36)	I

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





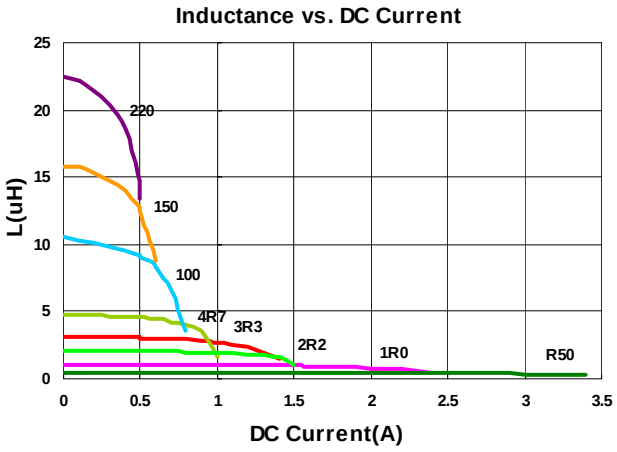
CHILISIN ELECTRONICS CORP.

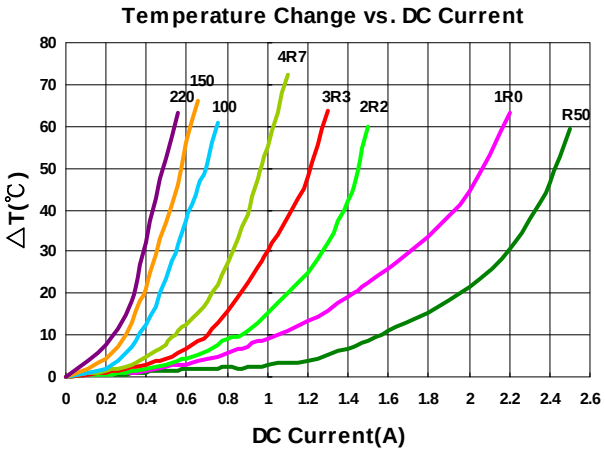
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVC201B12-R50□-N	0.5	1	20, 30	51	2.60(2.34)	2.30(2.07)	B
LVC201B12-1R0□-N	1.0	1	20, 30	83	1.90(1.71)	1.80(1.62)	C
LVC201B12-2R2□-N	2.2	1	20, 30	159	1.36(1.22)	1.34(1.20)	E
LVC201B12-3R3□-N	3.3	1	20, 30	220	1.10(0.99)	1.06(0.95)	F
LVC201B12-4R7□-N	4.7	1	20, 30	330	0.92(0.82)	0.90(0.81)	G
LVC201B12-100□-N	10	1	20, 30	580	0.62(0.55)	0.58(0.52)	I
LVC201B12-150□-N	15	1	20, 30	900	0.48(0.43)	0.45(0.40)	J
LVC201B12-220□-N	22	1	20, 30	1400	0.40(0.36)	0.40(0.36)	K

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





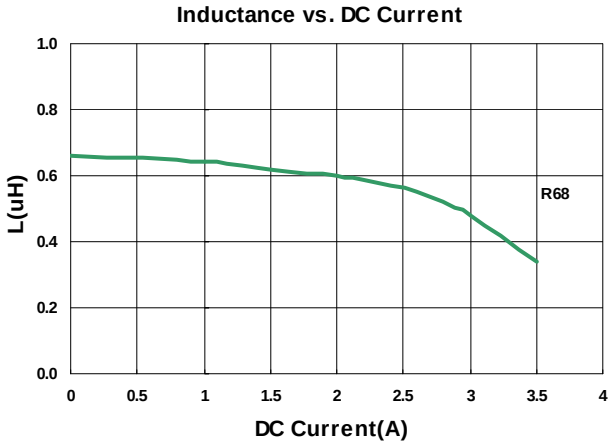
CHILISIN ELECTRONICS CORP.

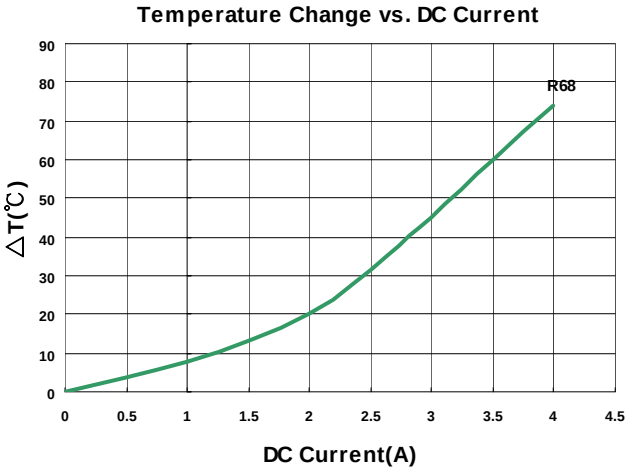
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVC252A12-R68□-N	0.68	1	20, 30	35	2.80(2.52)	2.60(2.34)	N

- When ordering, please specify tolerance and packaging codes
- Tolerance： T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer



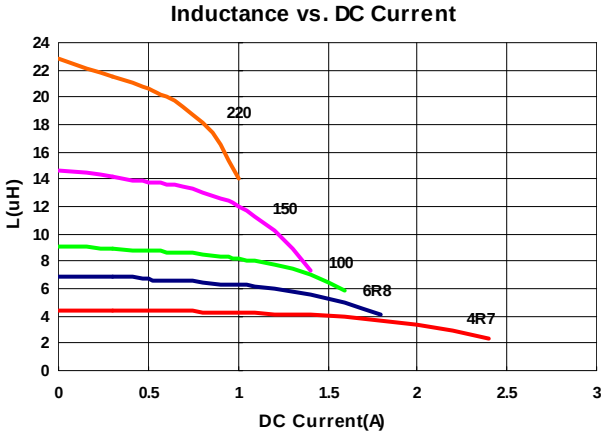


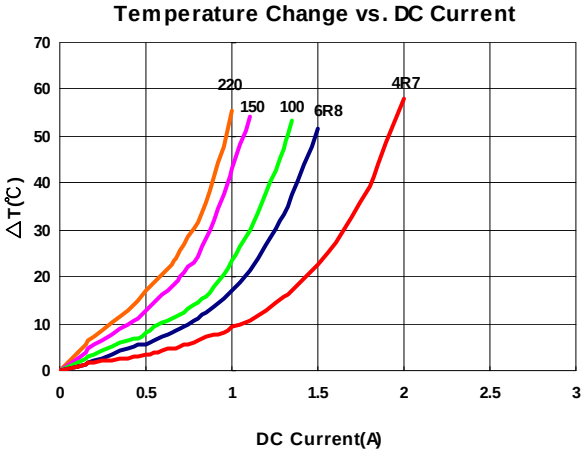
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVC404018-4R7□-N	4.7	100	20, 30	0.077	2.00(1.80)	1.80(1.62)	4R7
LVC404018-6R8□-N	6.8	100	20, 30	0.105	1.50(1.35)	1.35(1.21)	6R8
LVC404018-100□-N	10	100	20, 30	0.160	1.40(1.26)	1.20(1.08)	100
LVC404018-150□-N	15	100	20, 30	0.245	1.05(0.94)	0.95(0.85)	150
LVC404018-220□-N	22	100	20, 30	0.335	0.90(0.81)	0.90(0.81)	220

- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -40°C to 125°C. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





CHILISIN ELECTRONICS CORP.

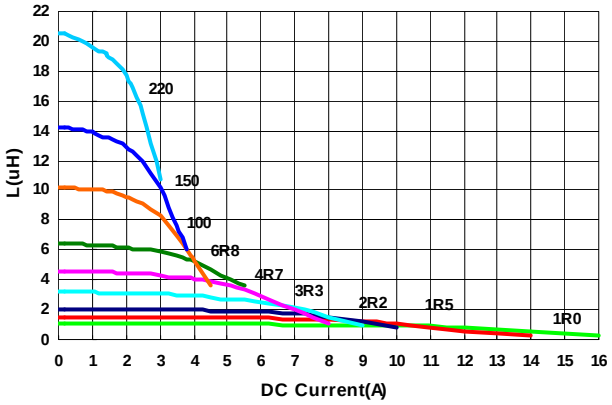
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVC505040-1R0□-N	1.0	100	20, 30	0.012	8.8(7.92)	5.9(5.31)	1R0
LVC505040-1R5□-N	1.5	100	20,30	0.014	7.9(7.11)	5.4(4.86)	1R5
LVC505040-2R2□-N	2.2	100	20, 30	0.020	6.8(6.12)	4.5(4.05)	2R2
LVC505040-3R3□-N	3.3	100	20, 30	0.026	5.3(4.77)	4.2(3.78)	3R3
LVC505040-4R7□-N	4.7	100	20, 30	0.032	4.4(3.96)	3.2(2.88)	4R7
LVC505040-6R8□-N	6.8	100	20, 30	0.050	3.8(3.42)	3.0(2.70)	6R8
LVC505040-100□-N	10	100	20, 30	0.070	3.0(2.70)	2.3(2.07)	100
LVC505040-150□-N	15	100	20, 30	0.115	2.4(2.16)	1.8(1.62)	150
LVC505040-220□-N	22	100	20, 30	0.160	2.0(1.80)	1.6(1.44)	220

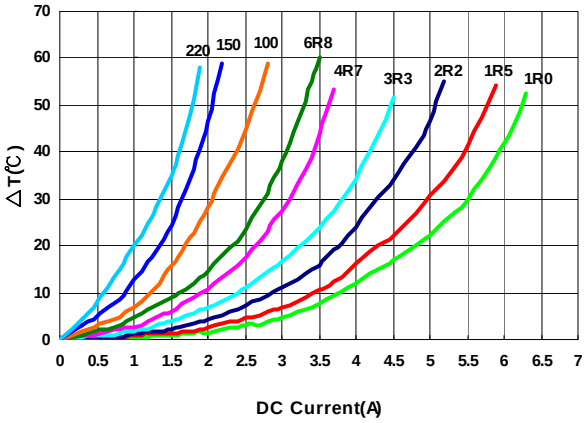
- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -40°C to 125°C. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer

Inductance vs. DC Current



Temperature Change vs. DC Current



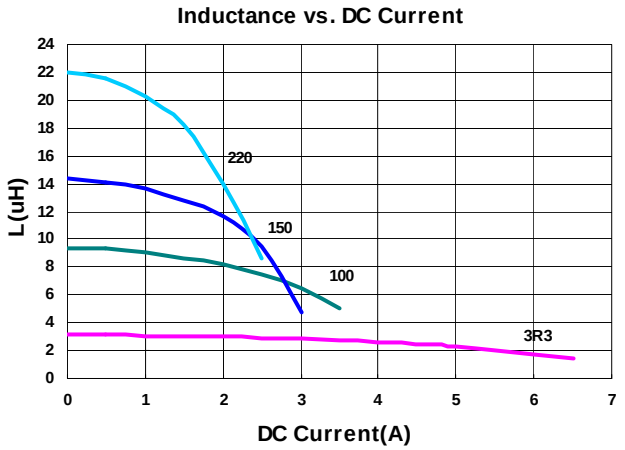
CHILISIN ELECTRONICS CORP.

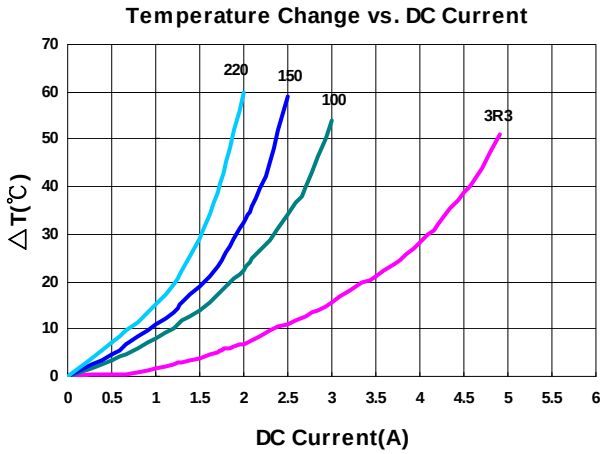
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVC606028-3R3□-N	3.3	100	20, 30	0.027	4.5(4.05)	4.0(3.60)	3R3
LVC606028-100□-N	10	100	20, 30	0.065	2.6(2.34)	2.5(2.25)	100
LVC606028-150□-N	15	100	20, 30	0.093	2.1(1.89)	2.0(1.80)	150
LVC606028-220□-N	22	100	20, 30	0.135	1.7(1.53)	1.65(1.48)	220

- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -40°C to 125°C. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





CHILISIN ELECTRONICS CORP.

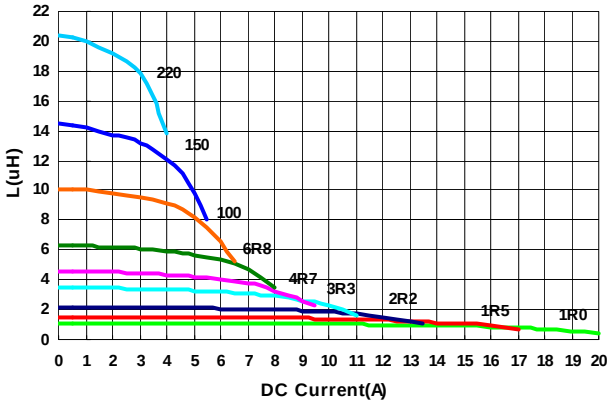
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	Tolerance (±%)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
LVC606045-1R0□-N	1.0	100	30	0.010	13(11.7)	7.3(6.57)	1R0
LVC606045-1R5□-N	1.5	100	20,30	0.012	12(10.8)	6.6(5.94)	1R5
LVC606045-2R2□-N	2.2	100	20, 30	0.018	9.5(8.55)	5.2(4.68)	2R2
LVC606045-3R3□-N	3.3	100	20, 30	0.022	7.8(7.02)	4.4(3.96)	3R3
LVC606045-4R7□-N	4.7	100	20, 30	0.030	6.8(6.12)	4.0(3.60)	4R7
LVC606045-6R8□-N	6.8	100	20, 30	0.042	5.7(5.13)	3.3(2.97)	6R8
LVC606045-100□-N	10	100	20, 30	0.060	4.6(4.14)	2.6(2.34)	100
LVC606045-150□-N	15	100	20, 30	0.090	3.8(3.42)	2.2(1.98)	150
LVC606045-220□-N	22	100	20, 30	0.130	3.3(2.97)	1.9(1.71)	220

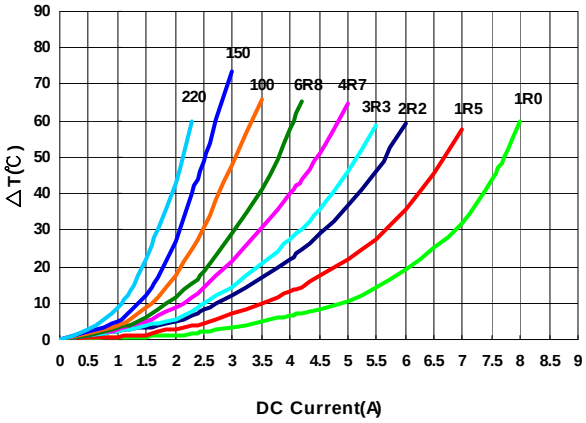
- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -40°C to 125°C. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer

Inductance vs. DC Current



Temperature Change vs. DC Current



CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions

Figure 1

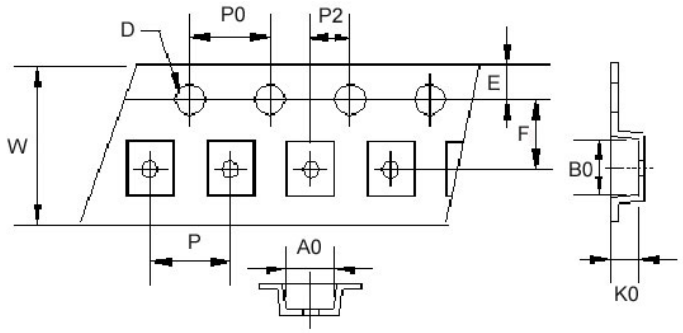
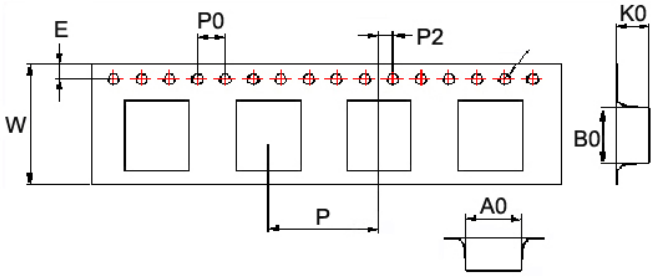
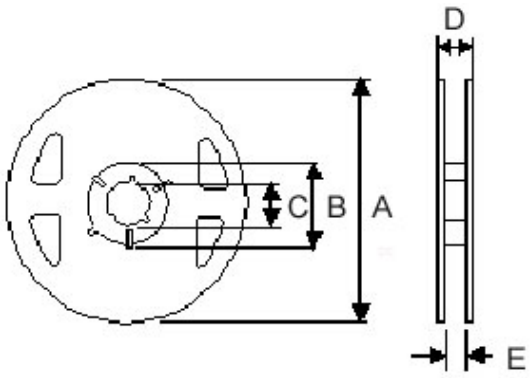


Figure 2



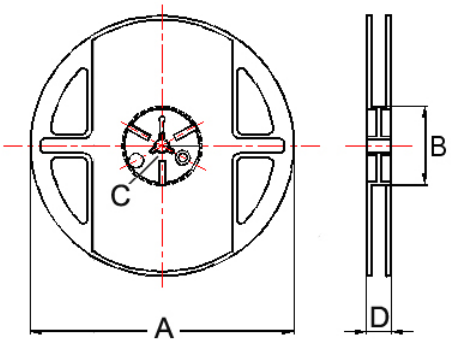
Reel Dimensions

Figure 1



Reel Dimensions

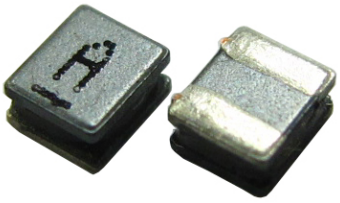
Figure 2



Dimensions in mm

TYPE	Fig	Tape Dimensions										Reel Dimensions					Quantity
		A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	PCS / Reel
LVC201B10	1	1.90	2.20	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
LVC201B12	1	1.90	2.20	1.30	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
LVC252A12	1	2.40	2.70	1.30	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
LVC404018	2	4.25	4.25	2.10	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	800
LVC505040	2	5.30	5.30	4.40	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	1500
LVC606028	2	6.25	6.25	3.00	1.55	1.75	7.5	16	12	4	2	330	100	13	17.4	-	1500
LVC606045	2	6.25	6.25	4.65	1.55	1.75	7.5	16	12	4	2	330	100	13	17.4	-	1000

LVH Series



LVH series, an automatic assembly constructed power inductor, is shielded with magnetic resin and suitable for portable DC-DC converter applications.

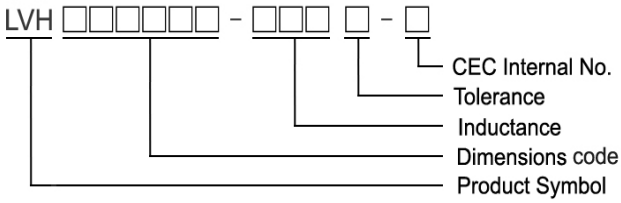
Features

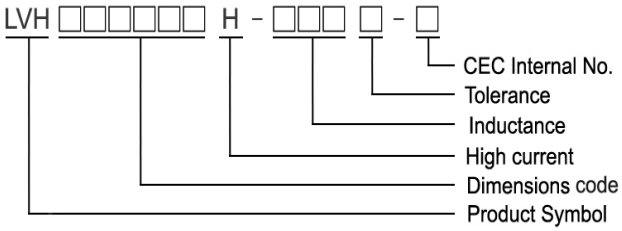
- RoHS compliant
- Low DC resistance and high current
- Highly accurate dimensions
- Superior EMI characteristics with ultra low radiation comparing to conventional shielded power inductors
- Halogen free

Applications

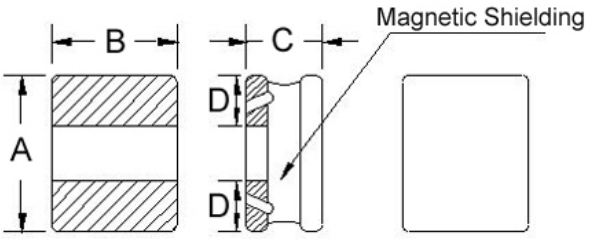
- Smart phone
- DSC
- Tablet PC and other portable devices
- DC/DC converters

Product Identification

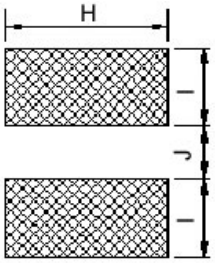




Shape and Dimensions



Recommended Pattern



Dimensions in mm

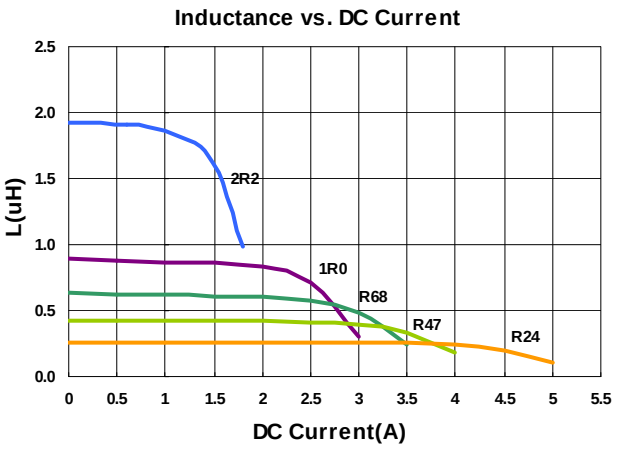
TYPE	A	B	C	D	H	I	J
LVH201B10H	2.0±0.25	1.6±0.25	1.02 Max	0.6	1.8	0.8	0.8
LVH252A10H	2.5±0.25	2.0±0.25	1.02 Max	0.8	2.2	0.85	0.8
LVH252A12	2.5±0.25	2.0±0.25	1.2±0.05	0.8	2.2	0.85	0.8
LVH252A12H	2.5±0.25	2.0±0.25	1.2±0.05	0.8	2.2	0.85	0.8

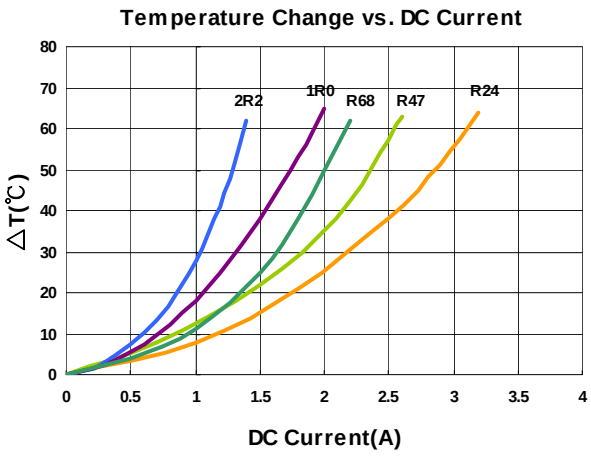
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ.
LVH201B10H-R24□-N	0.24	1	20, 30	0.048	3700(3300)	2500
LVH201B10H-R33□-N	0.33	1	20, 30	0.048	3400(3000)	2500
LVH201B10H-R47□-N	0.47	1	20, 30	0.072	2900(2600)	2100
LVH201B10H-R56□-N	0.56	1	20, 30	0.072	2700(2400)	2100
LVH201B10H-R68□-N	0.68	1	20, 30	0.092	2500(2200)	1800
LVH201B10H-1R0□-N	1.0	1	20, 30	0.110	2200(2000)	1500
LVH201B10H-2R2□-N	2.2	1	20, 30	0.205	1400(1200)	1150

- When ordering, please specify tolerance and packaging codes
- Tolerance： T =±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient.
- Operating temperature range from -40to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





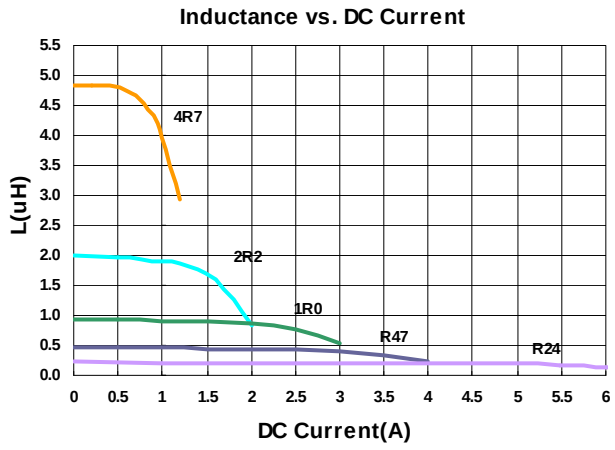
CHILISIN ELECTRONICS CORP.

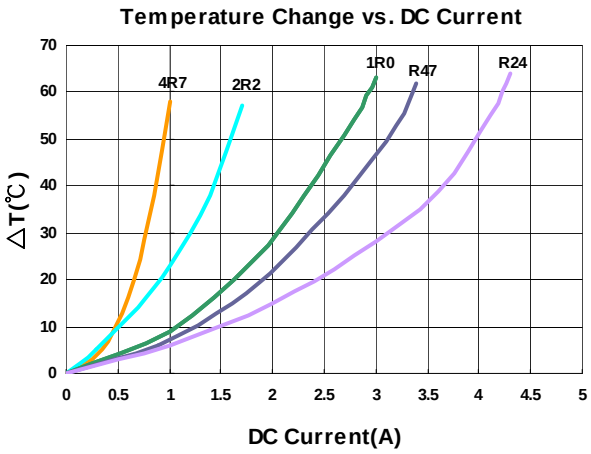
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ.
LVH252A10H-R24□-N	0.24	1	20, 30	0.030	4700(4200)	3600
LVH252A10H-R47□-N	0.47	1	20, 30	0.043	3300(3000)	2700
LVH252A10H-R68□-N	0.68	1	20, 30	0.062	2800(2500)	2300
LVH252A10H-1R0□-N	1.0	1	20, 30	0.080	2300(2100)	1900
LVH252A10H-2R2□-N	2.2	1	20, 30	0.135	1600(1400)	1400
LVH252A10H-4R7□-N	4.7	1	20, 30	0.330	1000(900)	850

- When ordering, please specify tolerance and packaging codes
- Tolerance： T =±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient.
- Operating temperature range from -40to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer





CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ.	Marking
LVH252A12-R24□-N	0.24	1	20, 30	0.021	4700(4200)	3800	E
LVH252A12-R50□-N	0.50	1	20, 30	0.027	3600(3400)	3000	D
LVH252A12-1R0□-N	1.0	1	20, 30	0.037	2700(2450)	2600	A
LVH252A12-2R2□-N	2.2	1	20, 30	0.080	1900(1800)	1800	B
LVH252A12-4R7□-N	4.7	1	20, 30	0.195	1200(1000)	1100	C
LVH252A12-100□-N	10	1	20, 30	0.400	900(800)	800	F

- When ordering, please specify tolerance and packaging codes
- Tolerance： T =±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient.
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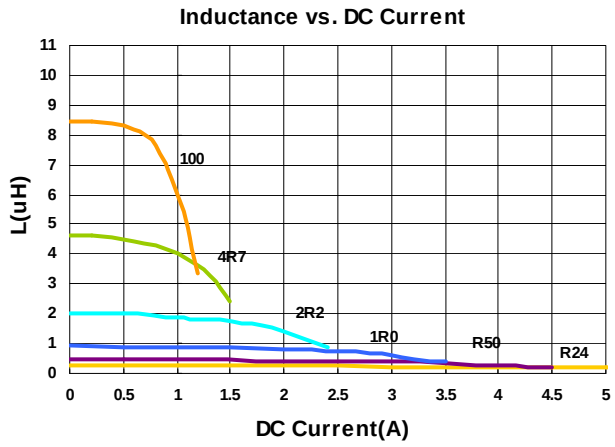
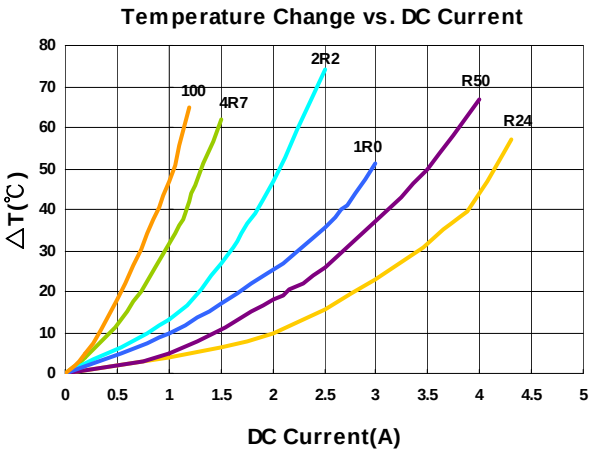
Test Instruments：HP4284A Material/Impedance Analyzer



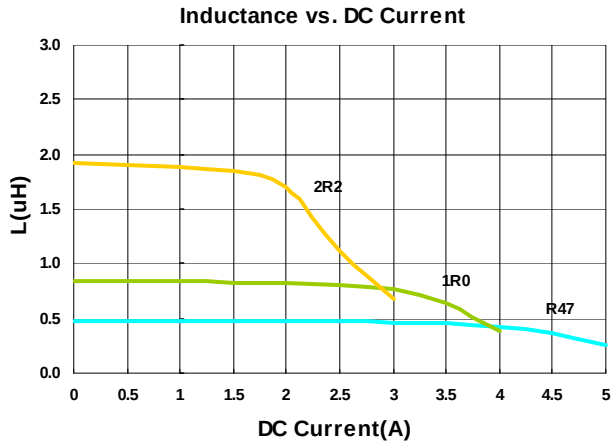


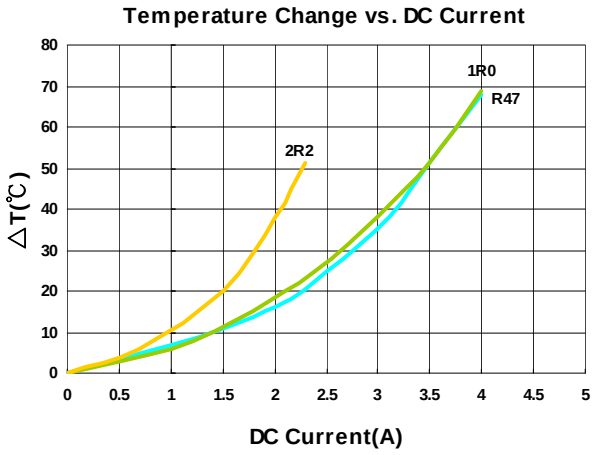
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ.
LVH252A12H-R47□-N	0.47	1	20, 30	0.031	4100(3700)	3100
LVH252A12H-R68□-N	0.68	1	20, 30	0.031	3100(2900)	3100
LVH252A12H-1R0□-N	1.0	1	20, 30	0.049	3200(3000)	3000
LVH252A12H-2R2□-N	2.2	1	20, 30	0.099	2200(2000)	2000

- When ordering, please specify tolerance and packaging codes
- Tolerance： T =±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient.
- Operating temperature range from -40to 125℃. (Including self - temperature rise)

Test Instruments：HP4284A Material/Impedance Analyzer

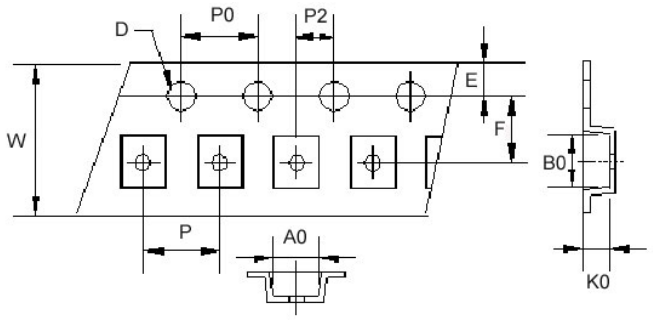




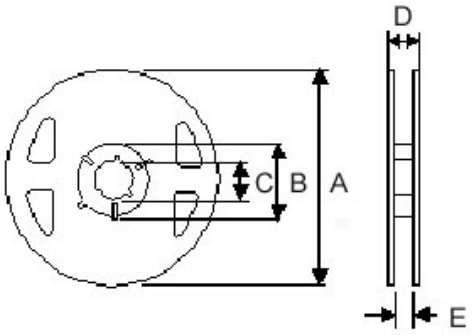
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions					Quantity
	A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	PCS / Reel
LVH201B10H	1.80	2.20	1.15	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000
LVH252010H	2.30	2.70	1.15	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000
LVH252012	2.30	2.70	1.30	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000
LVH252012H	2.30	2.70	1.30	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000

SF Series

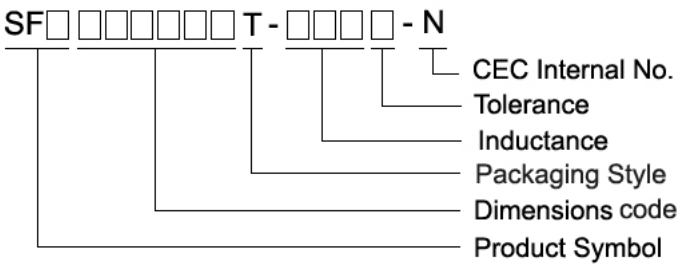
Features

- Surface mount inductors designed for high speed, high current switch mode applications requiring lower inductance
- Gapped ferrite cores for maximum efficiency
- Inductance values from 0.100 uH to 0.200 uH
- Current up to 64 Amps
- Ferrite core material

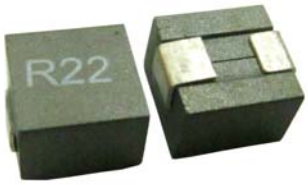
Applications

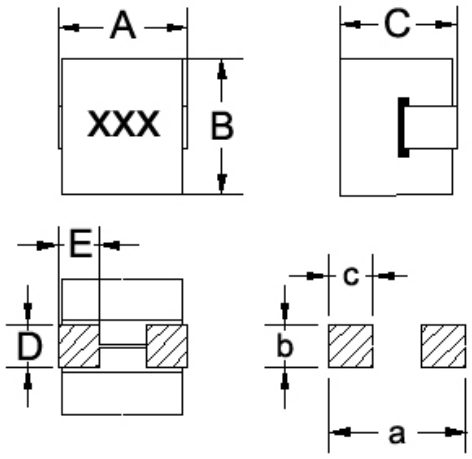
- Voltage regulator modules (VRMs) for servers, microprocessors
- High frequency, high current switching power supplies

Product Identification



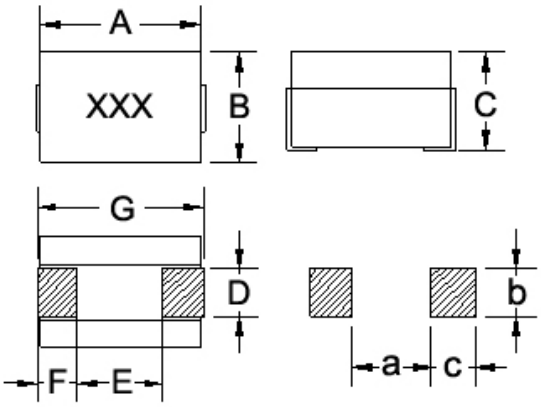
Shape and Dimensions





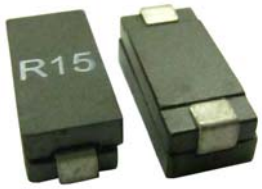
Dimensions in mm

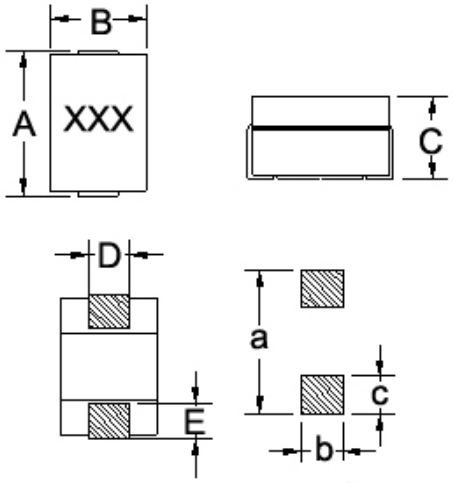
TYPE	A	B	C	D	E	a	b	c
SFC080705	7.7^{+0}	6.9^{+0}	5.0^{+0}	2.8±0.2	1.8 ref	8.0	3.0	2.0



Dimensions in mm

TYPE	A	B	C	D	E	F	G	a	b	c
SFD100707	10±0.2	7.2+0	7.3±0.2	1.8 ref	0.6 ref	2.3 ref	11^{+0}	4.05	2.55	3.55





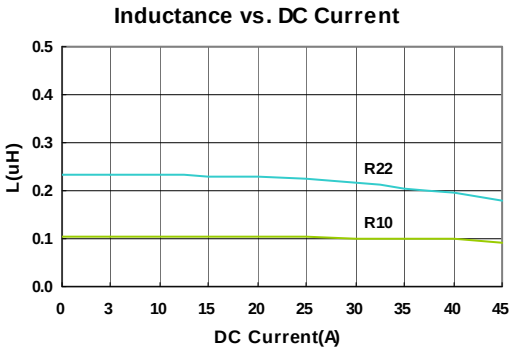
Dimensions in mm

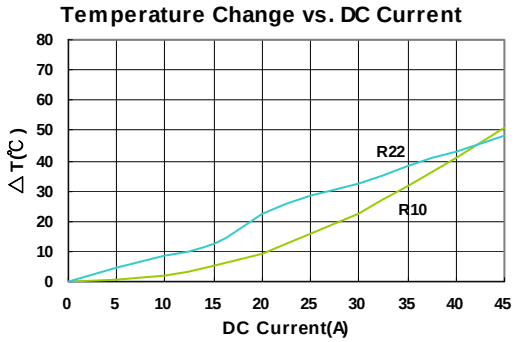
TYPE	A	B	C	D	E	a	b	c
SFE150705	14.7±0.3	6.7±0.3	5.0^{+0}	2.8 ref	2.0 ref	15	4.5	2.5

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	RDC (mΩ) Max	Isat (A) Max	Irms (A) Max
SFC080705T-R10L-N	0.10	15	100,40mV	1	35	35
SFC080705T-R22L-N	0.22	15	100,40mV	1	22	28

- Customized Specifications are available
- OCL (Open Circuit Inductance) Test parameters: 100KHz, 40mVrms,0Adc & Isat @20°C
- DC current for an approximate △T of 40°C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, airflow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed 155°C under worst case operating conditions verified in the end application.
- Operating ambient temperature range: -40°C to +155°C(Including self - temperature rise)
- Tested L: WK4237METER RDC:HK502BC METER Isat : WK3260B/ 3265B METER

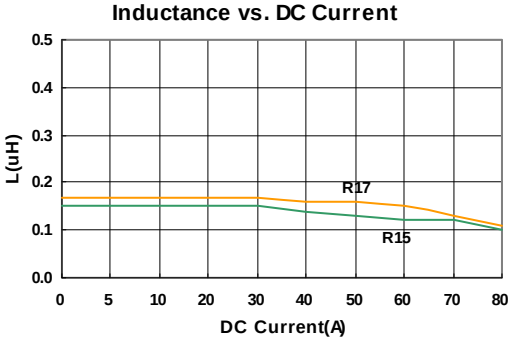


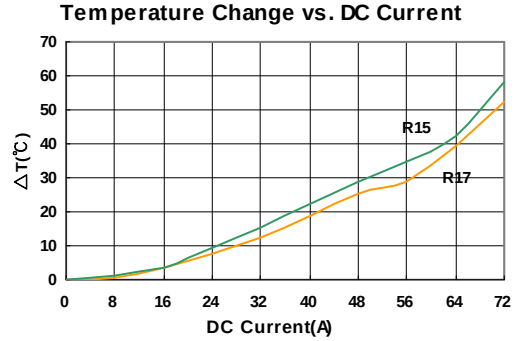


Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	RDC (mΩ)	Isat[1](20℃) (A) Max	Isat[2](125℃) (A) Max	Irms (A) Max
SFD100707T-R15K-N	0.15	10	100,0.1V	0.29±5%	76	70	61
SFD100707T-R17K-N	0.17	10	100,0.1V	0.29±5%	66	60	61

- Customized Specifications are available.
- OCL (Open Circuit Inductance) Test parameters: 100KHz, 0.1Vrms,0Adc & Isat @20°
- DC current for an approximate △T of 40°C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, airflow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed 155°C under worst case operating conditions verified in the end application.
- Peak Current for approximately 20% rolloff @ 20°C
- Operating ambient temperature range: -40°C to +155°C(Including self - temperature rise)
- Tested L: WK4237METER RDC:HK502BC METER Isat : WK3260B/ 3265B METER

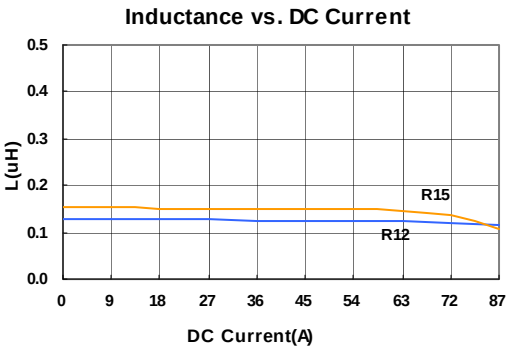


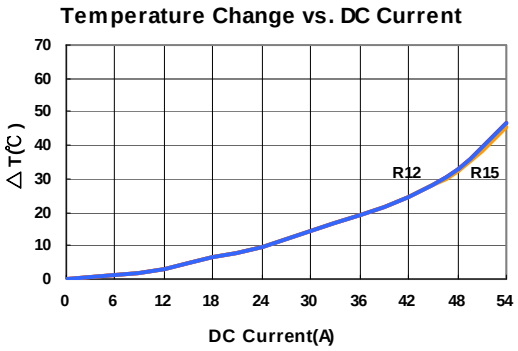


Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	RDC (mΩ)	Isat[1](20℃) (A) Max	Isat[2](125℃) (A) Max	Irms (A) Max
SFE150705T-R12K-N	0.12	10	100,1V	0.47±7%	87	75	53
SFE150705T-R15K-N	0.15	10	100,1V	0.47±7%	72	60	53

- Customized Specifications are available.
- OCL (Open Circuit Inductance) Test parameters: 100KHz, 1.0Vrms,0Adc & Isat @20°C
- DC current for an approximate △T of 40°C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, airflow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed 155°C under worst case operating conditions verified in the end application.
- Peak Current for approximately 20% rolloff @ 20°C
- Operating ambient temperature range: -40°C to +155°C(Including self - temperature rise)
- Tested L: WK4237METER RDC:HK502BC METER Isat : WK3260B/ 3265B METER

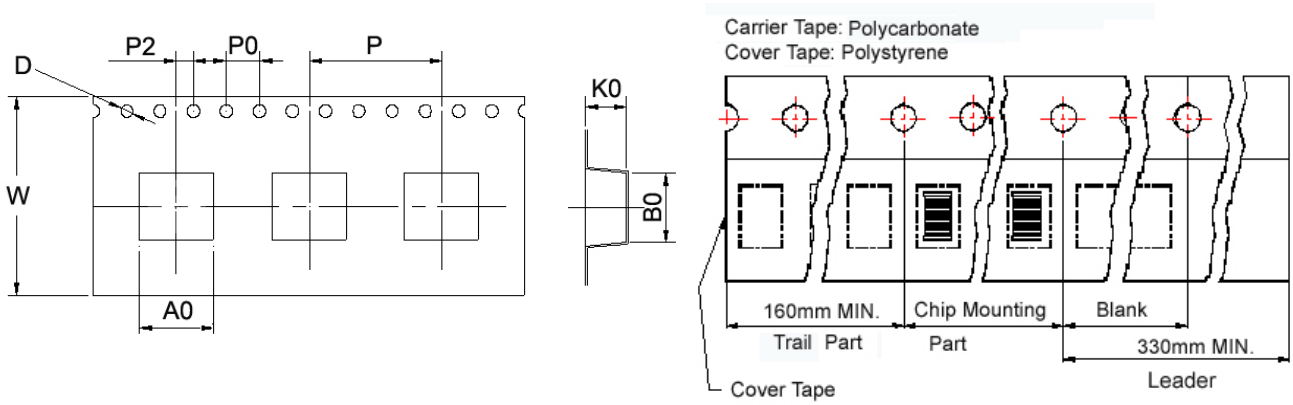




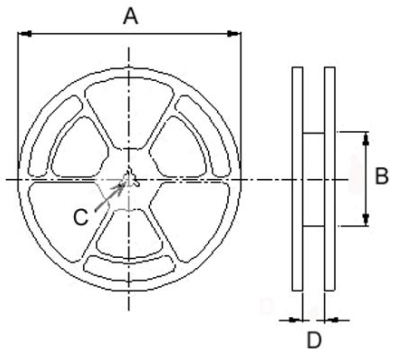
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A0	B0	K0	D	W	P	P0	P2	A	B	C	D	PCS / REEL
SFC080705	7.4	8.2	5.4	1.5	24	12	4	2	330	100	13.3	24.5	750
SFD100707	7.5	10.5	7.5	1.5	24	12	4	2	330	100	13.3	24.5	700
SFE150705	7.4	15.4	5.4	1.5	24	16	4	2	330	100	13.3	24.5	750

CPUN Series

CPUN Series is designed for low RDC and ultra large current application. Its assembly model and magnetic shielding is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

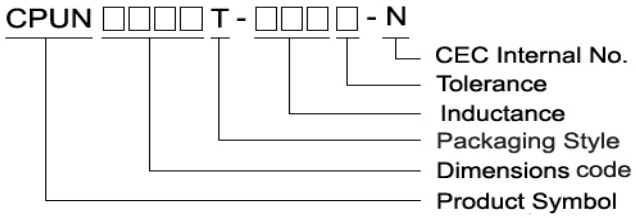
Features

- Lead free
- Excellent for power line DC-DC conversion applications
- Shielded construction
- Lowest DCR/uH in this package size
- Handle high transient current spikes without saturation
- Ultra low buzz noise due to composite construction
- Support halogen free product

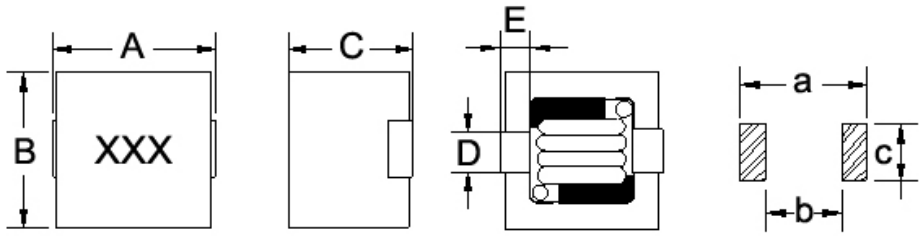
Applications

- Power switching for personal computers and other handheld electronic devices

Product Identification



Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E	a	b	c
CPUN0806	8.8^{+0}	8.4^{+0}	7.0^{+0}	2.3±0.2	1.5±0.2	9.2	4.4	3.0
CPUN1009	11.3^{+0}	10.3^{+0}	9.5^{+0}	3.0±0.2	1.6±0.2	11.3	6.9	3.6
CPUN1210	12.3^{+0}	11.7^{+0}	10.0^{+0}	3.5±0.2	2.0±0.2	12.8	7.0	5.4

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	RDC (mΩ) Max	Isat (A) Max	Irms (A) Max
CPUN0806T-R33M-N	0.33	20	100	2.7	45	22
CPUN0806T-R47M-N	0.47	20	100	3.1	40	20
CPUN0806T-R56M-N	0.56	20	100	3.1	30	20
CPUN0806T-R68M-N	0.68	20	100	3.1	24	20
CPUN0806T-R82M-N	0.82	20	100	4.2	21	18
CPUN0806T-1R0M-N	1.0	20	100	5.8	19	15
CPUN0806T-1R2M-N	1.2	20	100	5.8	16	15
CPUN1009T-R56M-N	0.56	20	100	2.0	50	26
CPUN1009T-1R0M-N	1.0	20	100	3.0	40	21
CPUN1009T-2R0M-N	2.0	20	100	5.7	35	16
CPUN1009T-3R3M-N	3.3	20	100	11.5	28	11
CPUN1009T-4R7M-N	4.7	20	100	11.5	12	11
CPUN1009T-6R8M-N	6.8	20	100	26	10	7
CPUN1210T-R22M-N	0.22	20	100	1.5	50	37
CPUN1210T-R33M-N	0.33	20	100	1.5	45	37
CPUN1210T-R47M-N	0.47	20	100	1.8	45	35
CPUN1210T-R56M-N	0.56	20	100	1.8	45	35
CPUN1210T-R68M-N	0.68	20	100	1.8	40	35
CPUN1210T-R82M-N	0.82	20	100	2.4	38	30
CPUN1210T-1R0M-N	1.0	20	100	2.4	34	30
CPUN1210T-1R5M-N	1.5	20	100	2.4	29	25
CPUN1210T-2R2M-N	2.2	20	100	4.7	25	21
CPUN1210T-3R3M-N	3.3	20	100	6.3	19	14

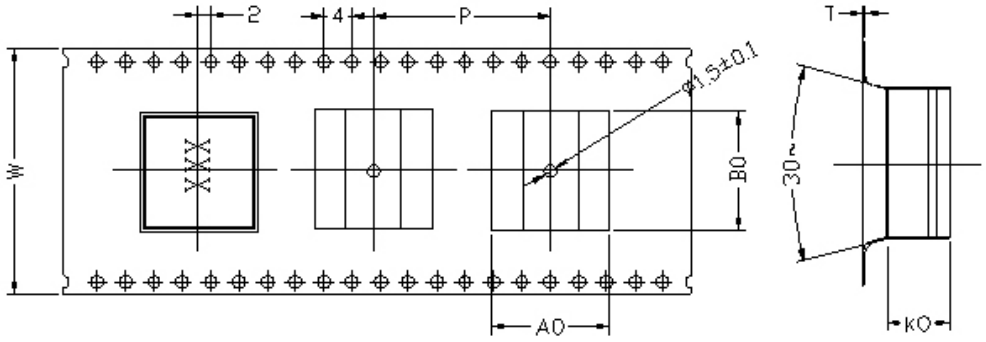
- Isat for inductance drops 20% from its value without current
- Irms for a 40℃ rise above 25℃ ambient.
- Customized Specifications are available.
- Tested L: WK4237METER

  RDC: HK502BC METER

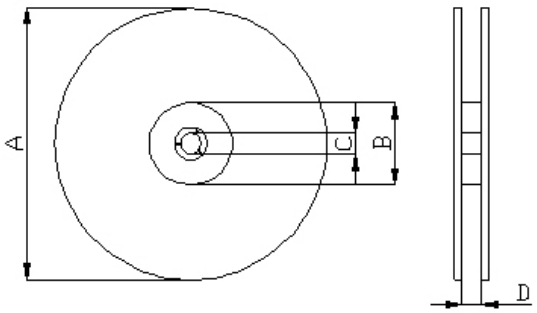
  Isat、Irms : WK3260B/ 3265B METER

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions						Reel Dimensions				Quantity	
	A0	B0	K0	P	W	T	A	B	C	D	BULK	PCS / REEL
CPUN0806	8.05	9.00	7.25	16	24	0.5	330	100	13	24.5	✓	500
CPUN1009	10.35	11.8	9.40	16	24	0.5	330	100	13	24.5	✓	400
CPUN1210	11.60	12.4	9.80	20	24	0.5	330	100	13	24.5	✓	300

SPIA Series

SPIA series is an automatic assembly constructed power inductor which is shielded with ferrite core. It is ideal for portable device DC-DC converter line.

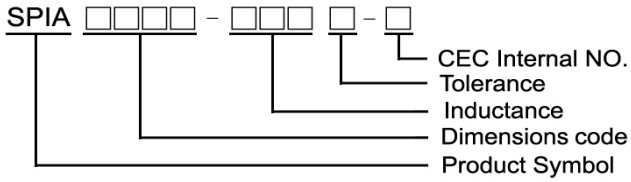
Features

- RoHS Compliant
- Miniature size. 3*3*1~4*4*2 (mm)
- Magnetic shieldeding
- Available on tape & reel for auto surface mounting

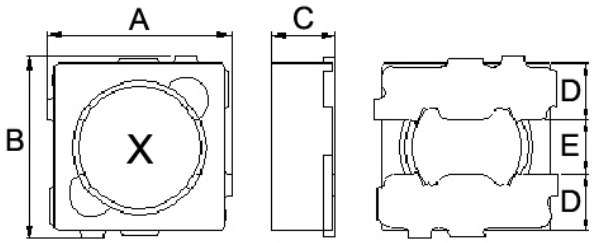
Applications

- Tablet PC
- Smart Phone
- GPS
- DSC
- Wireless Module
- STB
- Game Console

Product Identification



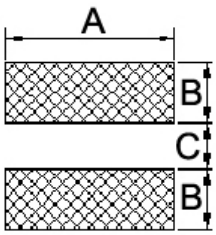
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E
SPIA3010	3.0±0.2	3.0±0.2	1.0±0.1	1.1	0.8
SPIA3015	3.0±0.2	3.0±0.2	1.5±0.1	1.1	0.8
SPIA3020	3.0±0.2	3.0±0.2	2.0±0.1	1.1	0.8
SPIA4012	4.0±0.2	4.0±0.2	1.2±0.1	1.3	1.2
SPIA4016	4.0±0.2	4.0±0.2	1.6±0.1	1.3	1.2
SPIA4020	4.0±0.2	4.0±0.2	2.0±0.1	1.3	1.2

Recommended Pattern



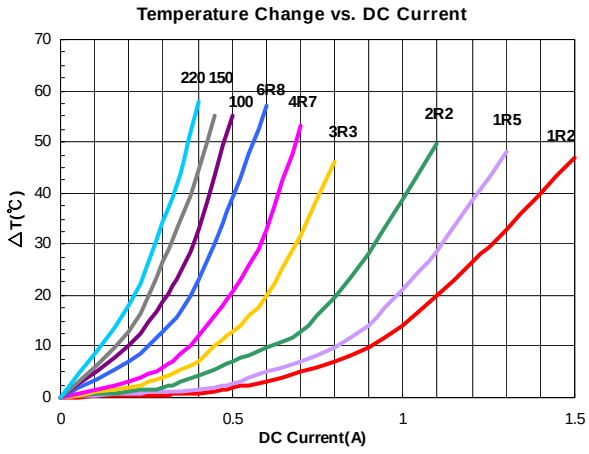
Dimensions in mm

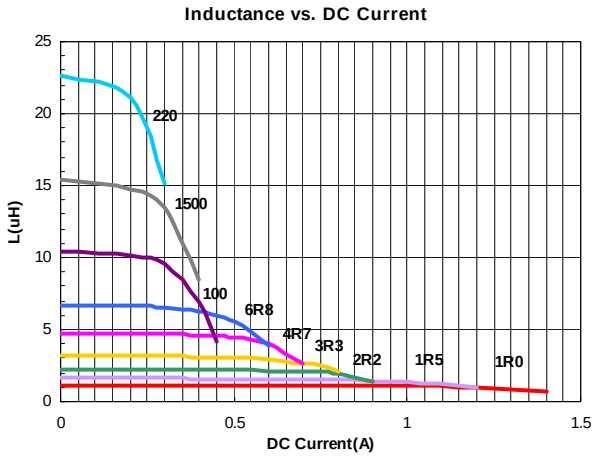
TYPE	A	B	C
SPIA3010	3.2	1.1	1.0
SPIA3015	3.2	1.1	1.0
SPIA3020	3.2	1.1	1.0
SPIA4012	4.2	1.5	1.2
SPIA4016	4.2	1.5	1.2
SPIA4020	4.2	1.5	1.2

Standard Specifications

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	RDC (Ω)±30%	Isat (mA)Typ.	Irms (mA)Typ.	Marking
SPIA3010-1R2□-N	1.2	20,30	100	0.075	920	1400	A
SPIA3010-1R5□-N	1.5	20,30	100	0.085	840	1200	B
SPIA3010-2R2□-N	2.2	20,30	100	0.155	640	1000	C
SPIA3010-3R3□-N	3.3	20,30	100	0.230	520	750	D
SPIA3010-4R7□-N	4.7	20,30	100	0.285	450	650	E
SPIA3010-6R8□-N	6.8	20,30	100	0.410	350	500	F
SPIA3010-100□-N	10	20,30	100	0.600	290	400	G
SPIA3010-150□-N	15	20,30	100	0.810	230	350	H
SPIA3010-220□-N	22	20,30	100	1.300	180	300	I

- Test Freq.(L): 100KHz , 1V
- When ordering, please specify tolerance and packaging codes
- Tolerance: M = ±20% , T = ±30%
- Operating temperature range －２５℃～１０５℃. (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current.
- Irms for a 40℃ rise above 25℃ ambient.
- Test Instrument: L: Agilent/HP 4284A + Agilent/HP 16334A
  RDC: Digital Milliohm Meter Chroma 16502, or equivalent
  Isat: HP4284+42841A
  Irms: Agilent 6641 SYSTEM DC POWER SUPPLY



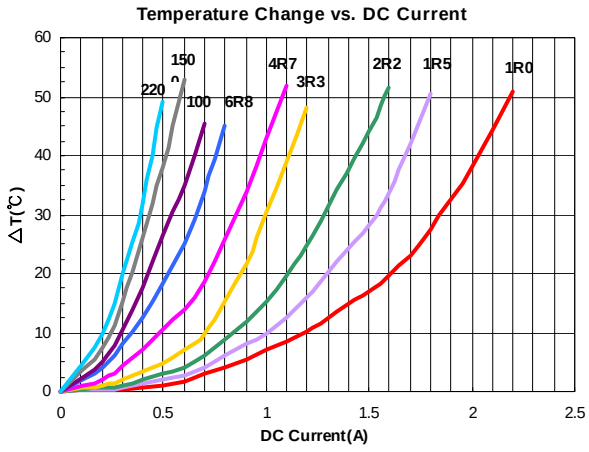


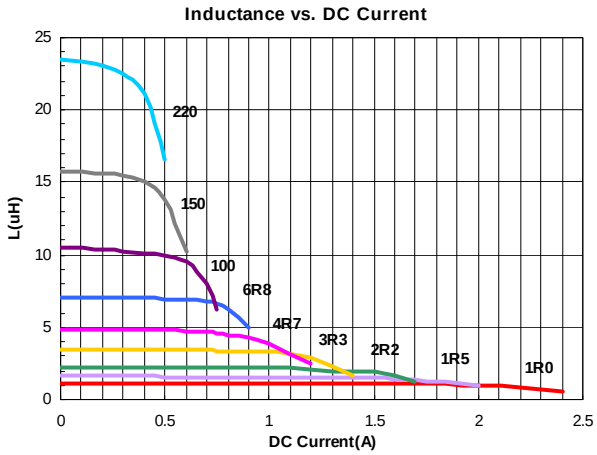
CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	RDC (Ω)±30%	Isat (mA)Typ.	Irms (mA)Typ.	Marking
SPIA3015-1R0□-N	1.0	20,30	100	0.052	1700	2000	A
SPIA3015-1R5□-N	1.5	20,30	100	0.072	1400	1600	B
SPIA3015-2R2□-N	2.2	20,30	100	0.095	1200	1400	C
SPIA3015-3R3□-N	3.3	20,30	100	0.160	1000	1100	D
SPIA3015-4R7□-N	4.7	20,30	100	0.195	900	950	E
SPIA3015-6R8□-N	6.8	20,30	100	0.340	720	750	F
SPIA3015-100□-N	10	20,30	100	0.425	600	650	G
SPIA3015-150□-N	15	20,30	100	0.695	450	500	H
SPIA3015-220□-N	22	20,30	100	0.970	400	420	I

- Test Freq.(L): 100KHz , 1V
- When ordering, please specify tolerance and packaging codes
- Tolerance: M = ±20% , T = ±30%
- Operating temperature range －２５℃～１０５℃. (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current.
- Irms for a 40℃ rise above 25℃ ambient.
- Test Instrument: L: Agilent/HP 4284A + Agilent/HP 16334A
  RDC: Digital Milliohm Meter Chroma 16502, or equivalent
  Isat: HP4284+42841A
  Irms: Agilent 6641 SYSTEM DC POWER SUPPLY

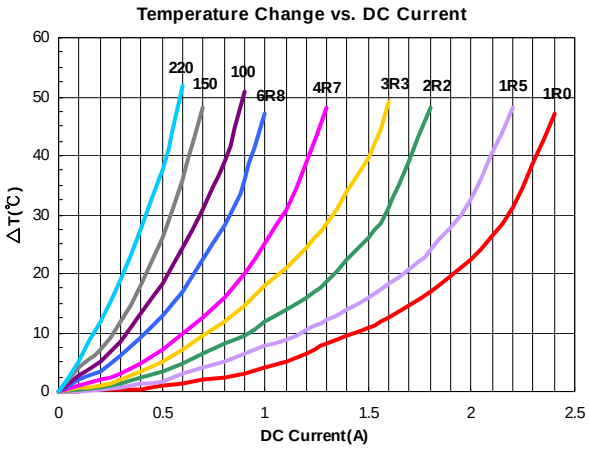


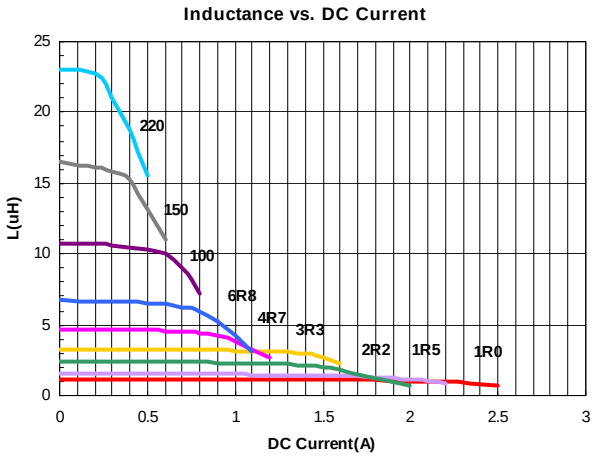


Standard Specifications

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	RDC (Ω)±30%	Isat (mA)Typ.	Irms (mA)Typ.	Marking
SPIA3020-1R0□-N	1.0	20,30	100	0.045	1500	2300	A
SPIA3020-1R5□-N	1.5	20,30	100	0.055	1300	2100	B
SPIA3020-2R2□-N	2.2	20,30	100	0.070	1000	1700	C
SPIA3020-3R3□-N	3.3	20,30	100	0.110	920	1500	D
SPIA3020-4R7□-N	4.7	20,30	100	0.150	840	1200	E
SPIA3020-6R8□-N	6.8	20,30	100	0.210	720	920	F
SPIA3020-100□-N	10	20,30	100	0.295	570	800	G
SPIA3020-150□-N	15	20,30	100	0.470	490	630	H
SPIA3020-220□-N	22	20,30	100	0.570	400	520	I

- Test Freq.(L): 100KHz , 1V
- When ordering, please specify tolerance and packaging codes
- Tolerance: M = ±20% , T = ±30%
- Operating temperature range －２５℃～１０５℃. (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current.
- Irms for a 40℃ rise above 25℃ ambient.
- Test Instrument: L: Agilent/HP 4284A + Agilent/HP 16334A
  RDC: Digital Milliohm Meter Chroma 16502, or equivalent
  Isat: HP4284+42841A
  Irms: Agilent 6641 SYSTEM DC POWER SUPPLY

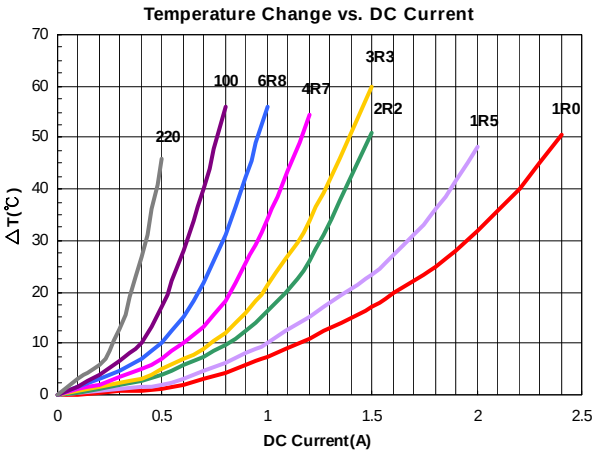


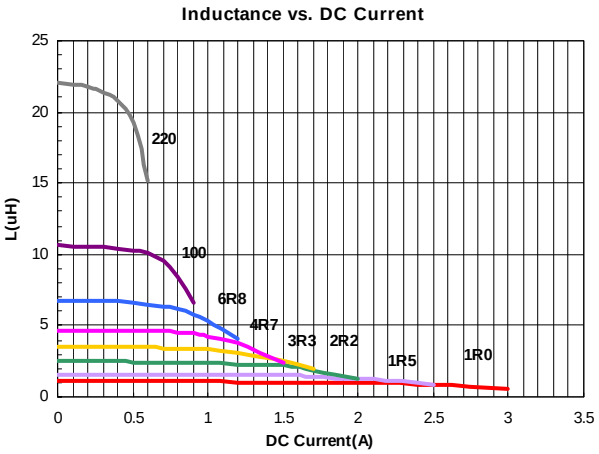


Standard Specifications

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	RDC (Ω)±30%	Isat (mA)Typ.	Irms (mA)Typ.	Marking
SPIA4012-1R0□-N	1.0	20,30	100	0.055	2500	2100	A
SPIA4012-1R5□-N	1.5	20,30	100	0.070	2000	1800	B
SPIA4012-2R2□-N	2.2	20,30	100	0.110	1600	1350	C
SPIA4012-3R3□-N	3.3	20,30	100	0.140	1400	1200	D
SPIA4012-4R7□-N	4.7	20,30	100	0.190	1200	1000	E
SPIA4012-6R8□-N	6.8	20,30	100	0.280	1000	850	F
SPIA4012-100□-N	10	20,30	100	0.420	800	650	G
SPIA4012-220□-N	22	20,30	100	0.800	600	450	H

- Test Freq.(L): 100KHz , 1V
- When ordering, please specify tolerance and packaging codes
- Tolerance: M = ±20% , T = ±30%
- Operating temperature range －２５℃～１０５℃. (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current.
- Irms for a 40℃ rise above 25℃ ambient.
- Test Instrument: L: Agilent/HP 4284A + Agilent/HP 16334A
  RDC: Digital Milliohm Meter Chroma 16502, or equivalent
  Isat: HP4284+42841A
  Irms: Agilent 6641 SYSTEM DC POWER SUPPLY

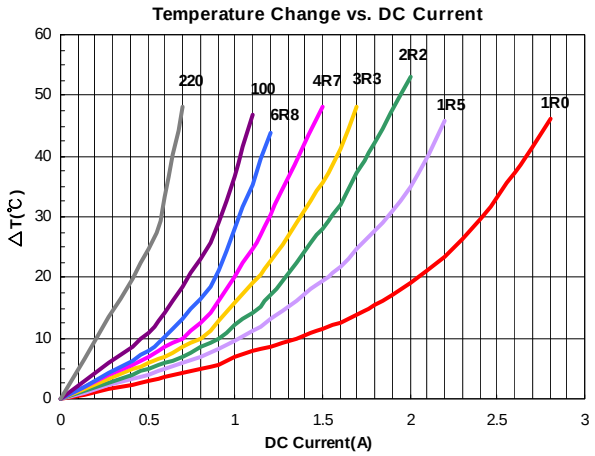


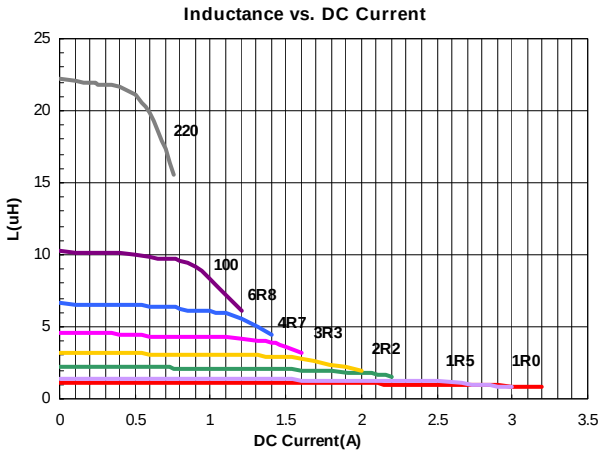


Standard Specifications

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	RDC (Ω)±30%	Isat (mA)Typ.	Irms (mA)Typ.	Marking
SPIA4016-1R0□-N	1.0	20,30	100	0.044	2800	2600	A
SPIA4016-1R5□-N	1.5	20,30	100	0.059	2500	2100	B
SPIA4016-2R2□-N	2.2	20,30	100	0.090	1900	1700	C
SPIA4016-3R3□-N	3.3	20,30	100	0.109	1700	1500	D
SPIA4016-4R7□-N	4.7	20,30	100	0.134	1500	1300	E
SPIA4016-6R8□-N	6.8	20,30	100	0.181	1200	1100	F
SPIA4016-100□-N	10	20,30	100	0.262	1000	1000	G
SPIA4016-220□-N	22	20,30	100	0.562	690	600	H

- Test Freq.(L): 100KHz , 1V
- When ordering, please specify tolerance and packaging codes
- Tolerance: M = ±20% , T = ±30%
- Operating temperature range －２５℃～１０５℃. (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current.
- Irms for a 40℃ rise above 25℃ ambient.
- Test Instrument: L: Agilent/HP 4284A + Agilent/HP 16334A
  RDC: Digital Milliohm Meter Chroma 16502, or equivalent
  Isat: HP4284+42841A
  Irms: Agilent 6641 SYSTEM DC POWER SUPPLY

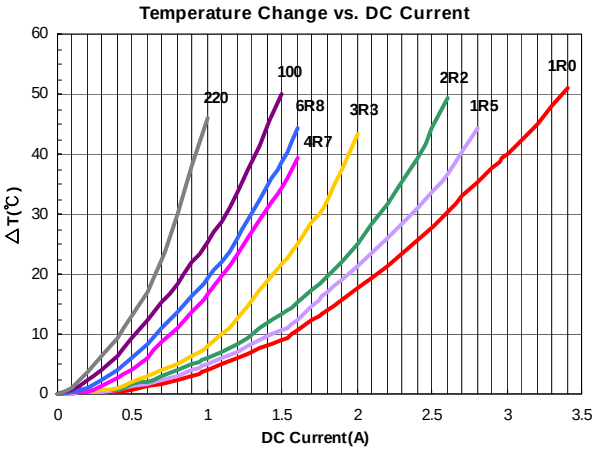


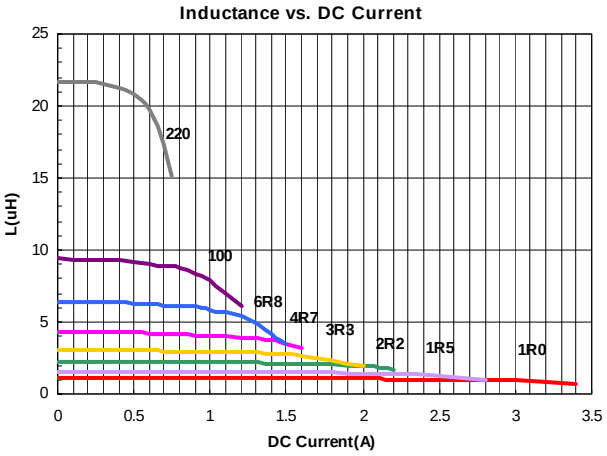


Standard Specifications

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	RDC (Ω)±30%	Isat (mA)Typ.	Irms (mA)Typ.	Marking
SPIA4020-1R0□-N	1.2	20,30	100	0.051	2900	3000	A
SPIA4020-1R5□-N	1.5	20,30	100	0.059	2500	2700	B
SPIA4020-2R2□-N	2.2	20,30	100	0.066	2100	2400	C
SPIA4020-3R3□-N	3.3	20,30	100	0.077	1700	1800	D
SPIA4020-4R7□-N	4.7	20,30	100	0.100	1400	1500	E
SPIA4020-6R8□-N	6.8	20,30	100	0.125	1200	1400	F
SPIA4020-100□-N	10	20,30	100	0.177	1100	1300	G
SPIA4020-220□-N	22	20,30	100	0.365	670	800	H

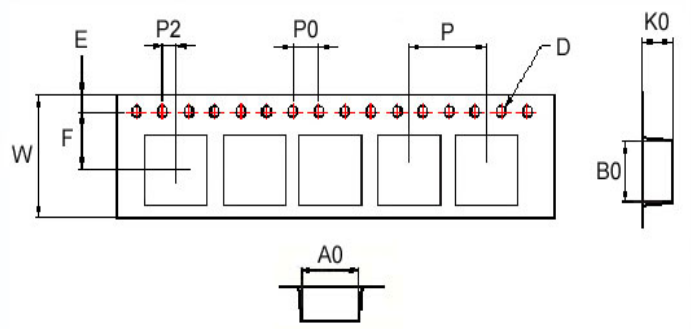
- Test Freq.(L): 100KHz , 1V
- When ordering, please specify tolerance and packaging codes
- Tolerance: M = ±20% , T = ±30%
- Operating temperature range －２５℃～１０５℃. (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current.
- Irms for a 40℃ rise above 25℃ ambient.
- Test Instrument: L: Agilent/HP 4284A + Agilent/HP 16334A
  RDC: Digital Milliohm Meter Chroma 16502, or equivalent
  Isat: HP4284+42841A
  Irms: Agilent 6641 SYSTEM DC POWER SUPPLY



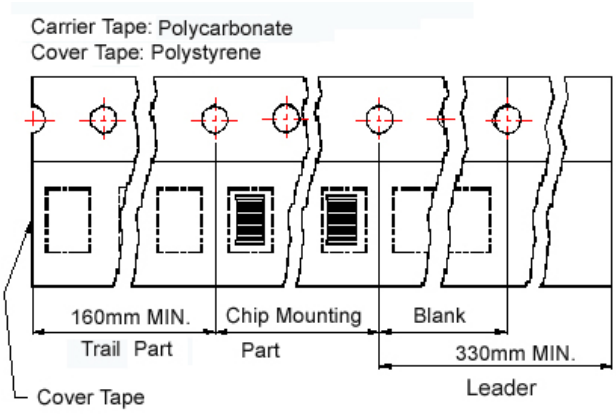


Packaging Specifications

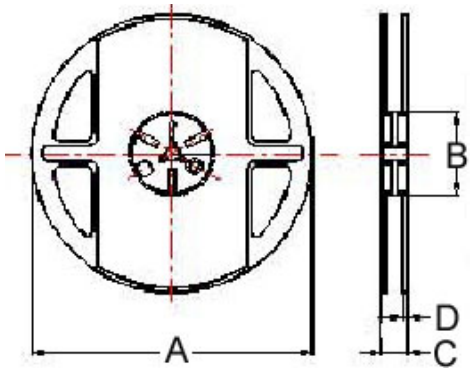
Tape Dimensions



Reel Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions				Quantity
	A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	PCS / REEL
SPIA3010	3.25	3.25	1.1	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	2000
SPIA3015	3.25	3.25	1.6	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	1000
SPIA3020	3.25	3.25	2.1	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	1000
SPIA4012	4.25	4.25	1.3	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	1000
SPIA4016	4.25	4.25	1.7	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	1000
SPIA4020	4.25	4.25	2.1	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	1000

SCDS Series

Features

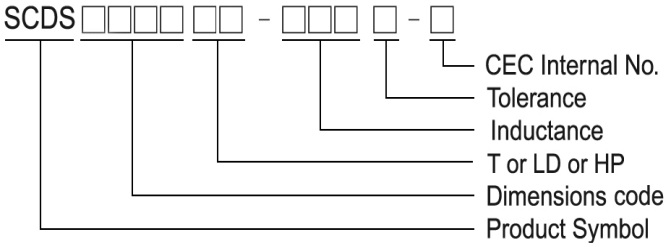
- RoHS compliant
- Available in magnetic shielding
- Low DC resistance
- Suitable for large currents
- Ideal for DC – DC converter inductor applications
- Available on tape and reel for auto surface mounting

Applications

- Power supply for VTRs
- OA equipment
- LCD televisions
- Notebook PCs
- Portable communication devices
- DC / DC converters, etc

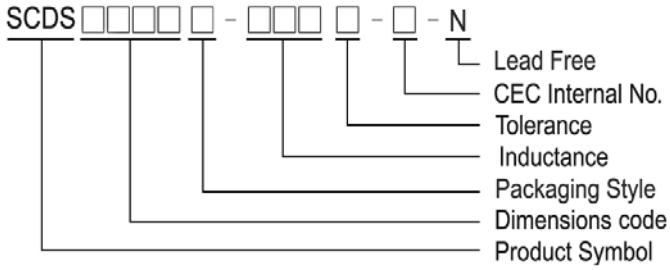
Product Identification

SCDS



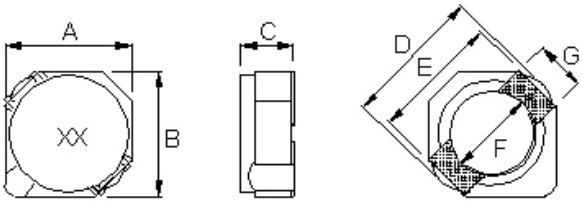
- T : Packaging: Tape and Reel
- HP : High Power
- LD : Low DCR
- CEC Internal No.: S: Base type terminals

SCDS3D16



SCDS2D09/2D11/2D14/2D18LD/ 2D18HP

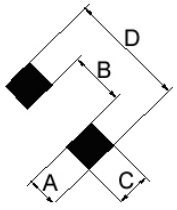
Shape and Dimensions



Dimension in mm

TYPE	A	B	C	D	E	F	G
SCDS2D09	3.2^{+0}	3.2^{+0}	1.0^{+0}	4.5^{+0}	3.3	2.1	1.0
SCDS2D11	3.2^{+0}	3.2^{+0}	1.2^{+0}	4.5^{+0}	3.3	2.1	1.0
SCDS2D14	3.2^{+0}	3.2^{+0}	1.55^{+0}	4.5^{+0}	3.3	2.1	1.0
SCDS2D18LD	3.2^{+0}	3.2^{+0}	2.0^{+0}	4.5^{+0}	3.3	2.1	1.0
SCDS2D18HP	3.2^{+0}	3.2^{+0}	2.0^{+0}	4.5^{+0}	3.3	2.1	1.0

Recommended Pattern

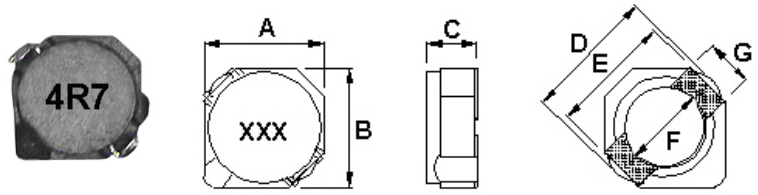


Dimensions in mm

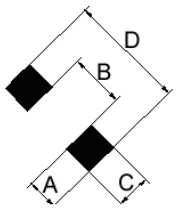
TYPE	A	B	C	D
SCDS2D09	1.3	1.7	1.3	4.3
SCDS2D11	1.3	1.7	1.3	4.3
SCDS2D14	1.3	1.7	1.3	4.3
SCDS2D18LD	1.3	1.7	1.3	4.3
SCDS2D18HP	1.3	1.7	1.3	4.3

SCDS3D11/3D11HP

Shape and Dimensions



Recommended Pattern



Dimension in mm

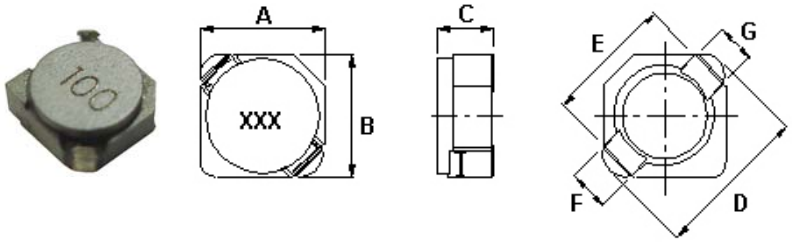
TYPE	A	B	C	D	E	F	G
SCDS3D11	4^{+0}	4^{+0}	1.2^{+0}	5.2^{+0}	4.4	2.8	1.1
SCDS3D11HP	4^{+0}	4^{+0}	1.2^{+0}	5.2^{+0}	4.4	2.8	1.1

Dimensions in mm

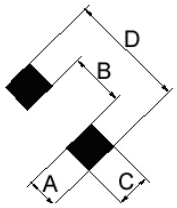
TYPE	A	B	C	D
SCDS3D11	1.4	2.4	1.5	5.2
SCDS3D11HP	1.4	2.4	1.5	5.2

SCDS 3D16T-XXX-S1-N

Shape and Dimensions



Recommended Pattern



Dimensions in mm

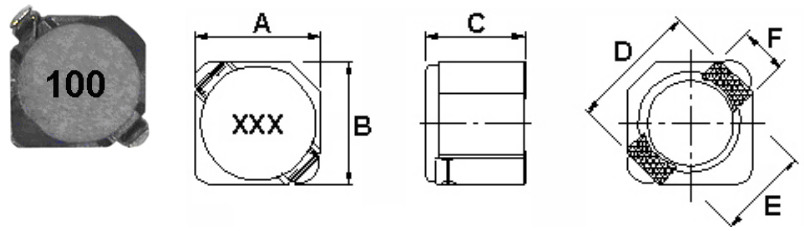
TYPE	A	B	C	D	E	F	G
SCDS3D16	4^{+0}	4^{+0}	1.8^{+0}	5.2^{+0}	4.4Typ	1.4^{+0}	1.1Typ

Dimension in mm

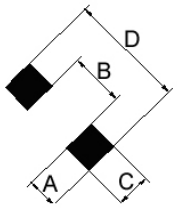
TYPE	A	B	C	D
SCDS3D16	1.4	2.4	1.5	5.2

SCDS3D28/3D28LD

Shape and Dimensions



Recommended Pattern



Dimension in mm

TYPE	A	B	C	D	E	F
SCDS3D28	4^{+0}	4^{+0}	3^{+0}	4.4	2.8	1.1
SCDS3D28LD	4^{+0}	4^{+0}	3^{+0}	4.4	2.8	1.1

Dimensions in mm

TYPE	A	B	C	D
SCDS3D28	1.4	2.4	1.5	5.2
SCDS3D28LD	1.4	2.4	1.5	5.2

Standard Specifications

Stamp	Inductance (μH)	RDC (mΩ) Max									
		SCDS 2D09	SCDS 2D11	SCDS 2D14	SCDS 2D18LD	SCDS 2D18HP	SCDS 3D11	SCDS 3D11HP	SCDS 3D16	SCDS 3D28	SCDS 3D28LD
R60	0.6							59			
1R0	1.0								40		
1R2	1.2	97.5						82			
1R5	1.5	110	68	63				104	52		
1R7	1.7					44					
1R8	1.8	131.3		75							
2R2	2.2	143.8	98	94	41	60		143	72		
2R7	2.7	150		106			78				
3R3	3.3	193.8	123	125	54	86		182	85	72.1	
3R9	3.9	225		138							
4R7	4.7	287.5	170	169	78	140	123	234	105	88.3	
5R6	5.6	325		188					135		
6R3	6.3					160					
6R8	6.8	425.	260	213	106		180	377	170	119	
8R2	8.2	475		281			204				
100	10	537.5	400	294	180	245	240	413	210	145	95
120	12			394			276	585			100
150	15				220	345	372	653	295	213	115
180	18						468	888			125
220	22				320		540	1010	430	335	145
270	27						726				175
330	33				460		822		675	481	215
390	39						942				225
470	47				660					599	305
560	56										325
680	68										470
820	82										540
101	100								2750		610
121	120										755
151	150										880
181	180										1130
221	220										1270

Test Freq. (L): SCDS 2D09/ 2D11/ 2D14/ 2D18LP/2D18HP/3D11/3D11HP/3D28/3D28LD (100KHz/ 1V)

SCDS 3D16 (100KHz/ 0.1V)

Other type: Rated current: The rated current indicates the current when the inductance decreases to 65% of it's nominal value or D.C. current when the temperature rising △t=40°C lower, whichever is lower.

Test Instrument: L: Agilent/ E4980 or HP4284A

RDC: CH502BC

Rated Current: HP4284+42841A or WK3260B+WK3265B

Standard Specifications

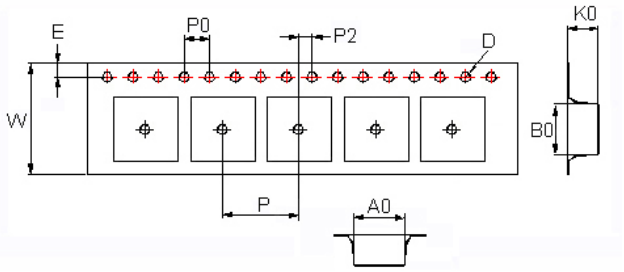
Stamp	Inductance (μH)	Rated Current (A)									
		SCDS 2D09	SCDS 2D11	SCDS 2D14	SCDS 2D18LD	SCDS 2D18HP	SCDS 3D11	SCDS 3D11HP	SCDS 3D16	SCDS 3D28	SCDS 3D28LD
R60	0.6							2.90			
1R0	1.0								1.60		
1R2	1.2	0.8						2.00			
1R5	1.5	0.73	0.90	1.80				1.85	1.55		
1R7	1.7					1.85					
1R8	1.8	0.65		1.65							
2R2	2.2	0.60	0.78	1.50	0.85	1.60		1.60	1.20		
2R7	2.7	0.53		1.35			0.53				
3R3	3.3	0.47	0.60	1.20	0.75	1.45		1.25	1.10	2.00	
3R9	3.9	0.45		1.10							
4R7	4.7	0.41	0.50	1.00	0.63	1.20	0.40	1.00	0.90	1.65	
5R6	5.6	0.37		0.95					0.80		
6R3	6.3					1.05					
6R8	6.8	0.33	0.44	0.85	0.52		0.34	0.85	0.73	1.24	
8R2	8.2	0.30		0.80			0.32				
100	10	0.28	0.35	0.70	0.43	0.85	0.28	0.80	0.55	1.05	0.50
120	12			0.62			0.25	0.64			0.45
150	15				0.35	0.70	0.23	0.58	0.45	0.90	0.40
180	18						0.21	0.52			0.35
220	22				0.30		0.19	0.45	0.40	0.76	0.33
270	27						0.17				0.29
330	33				0.24		0.15		0.32	0.58	0.28
390	39						0.14				0.25
470	47				0.20					0.48	0.23
560	56										0.20
680	68										0.185
820	82										0.172
101	100								0.13		0.160
121	120										0.136
151	150										0.124
181	180										0.119
221	220										0.116

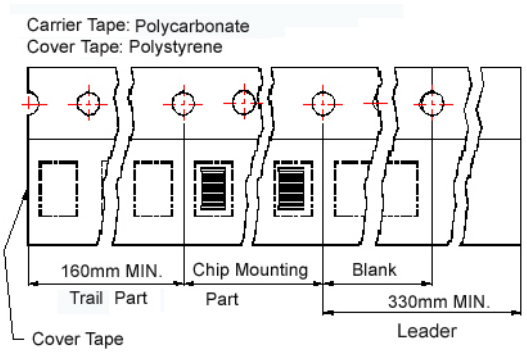
Tolerance Of Inductors

- SCDS 2D09 1.2 ~ 10 uH ± 30%
- SCDS 2D11 1.5 ~ 10uH ± 30%
- SCDS 2D14 1.5 ~ 12μH ± 30%
- SCDS 2D18LD 2.2 ~ 47μH ± 30%
- SCDS 2D18HP 1.7 ~ 15μH ± 30%
- SCDS3D11 2.7 ~ 39 uH ± 30%
- SCDS3D11HP 0.6 ~ 22 uH ± 30%
- SCDS3D16 1.0 ~ 100 uH ± 30%
- SCDS3D28 3.3 ~ 47 uH ± 30%
- SCDS3D28LD 10 ~ 220 uH ± 30%
- Tolerance： M = ±20% , T = ±30% , N = $^{+40}_{-20}$%

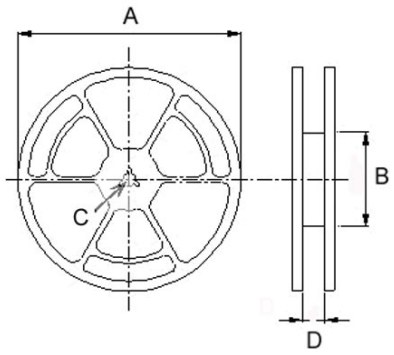
Packaging Specifications

Tape Dimensions





Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
SCDS 2D09	3.35	3.35	1.4	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
SCDS 2D11	3.35	3.35	1.4	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
SCDS 2D14	3.5	3.5	1.7	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
SCDS 2D18	3.5	3.5	2.1	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
SCDS 3D11	4.2	4.2	1.5	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
SCDS 3D16	4.1	4.1	2.0	1.5	1.75	12	8	4	2	178	60	13	13.2	1000
SCDS 3D28	4.2	4.2	3.2	1.55	1.75	12	8	4	2	178	60	13	13.2	500

SCDS Series

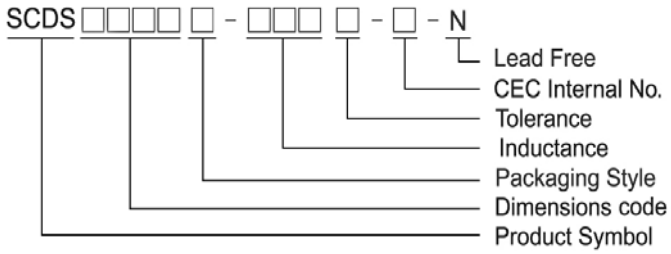
Features

- RoHS compliant
- Available in magnetic shielding
- Low DC resistance
- Suitable for large currents
- Ideal for DC – DC converter inductor applications
- Available on tape and reel for automatic surface mounting

Applications

- Power supply for VTRs
- OA equipment
- LCD televisions
- Notebook PCs
- Portable communication devices
- DC / DC converters, etc

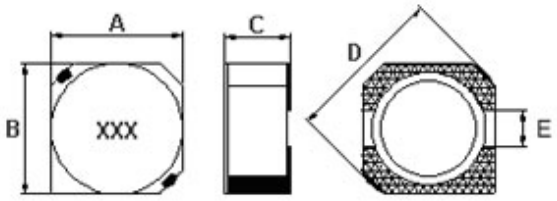
Product Identification



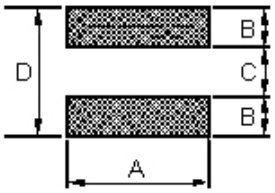
- T : Packaging: Tape and Reel
- CEC Internal No.: S: Base type terminals

SCDS 3D16T-XXXX-S-N

Shape and Dimensions



Recommended Pattern



Dimensions in mm

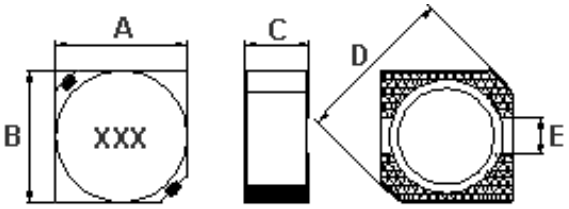
TYPE	A	B	C	D	E
SCDS3D16	4^{+0}	4^{+0}	1.8^{+0}	5.2^{+0}	1.0

Dimension in mm

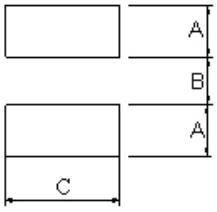
TYPE	A	B	C	D
SCDS3D16	4.6	1.6	1.4	4.6

SCDS 4D18 ~ 6D38

Shape and Dimensions



Recommended Pattern



Dimension in mm

TYPE	A	B	C	D	E
SCDS4D18	4.7 ± 0.3	4.7 ± 0.3	2.0^{+0}	6.9^{+0}	1.5
SCDS4D28	4.7 ± 0.3	4.7 ± 0.3	3.0^{+0}	6.9^{+0}	1.5
SCDS4D40	4.7 ± 0.3	4.7 ± 0.3	4^{+0}	6.9^{+0}	1.5
SCDS5D18	5.7 ± 0.3	5.7 ± 0.3	2.0^{+0}	8.2^{+0}	2.0
SCDS5D28	5.7 ± 0.3	5.7 ± 0.3	3.0^{+0}	8.2^{+0}	2.0
SCDS6D28	6.7 ± 0.3	6.7 ± 0.3	3.0^{+0}	9.5^{+0}	2.0
SCDS6D38	7^{+0}	7^{+0}	4^{+0}	9.5^{+0}	2.0

Dimension in mm

TYPE	A	B	C
SCDS4D18	1.9	1.5	5.3
SCDS4D28	1.9	1.5	5.3
SCDS4D40	1.9	1.5	5.3
SCDS5D18	2.15	2.0	6.3
SCDS5D28	2.15	2.0	6.3
SCDS6D28	2.65	2.0	7.3
SCDS6D38	2.65	2.0	7.3

Standard Specifications

Stamp	Inductance (μH)	RDC (mΩ) Max								Rated Current (A)							
		SCDS 3D16	SCDS 4D18	SCDS 4D28	SCDS 4D40	SCDS 5D18	SCDS 5D28	SCDS 6D28	SCDS 6D38	SCDS 3D16	SCDS 4D18	SCDS 4D28	SCDS 4D40	SCDS 5D18	SCDS 5D28	SCDS 6D28	SCDS 6D38
1R0	1.0		45								1.72						
1R2	1.2			23.6								2.56					
1R5	1.5	52								1.55							
1R7	1.7																
1R8	1.8			27.5								2.20					
2R2	2.2	72	75	31.3	22					1.20	1.32	2.04	4.6				
2R5	2.5						18								2.60		
2R7	2.7		105	43.3							1.28	1.60					
3R0	3.0						24	24							2.40	3.00	
3R3	3.3	85	110	49.2	33				20	1.10	1.04	1.57	3.4				3.50
3R9	3.9		155	64.8				27			0.88	1.44				2.60	
4R1	4.1					57								1.95			
4R2	4.2						31								2.20		
4R7	4.7	105	162	72.0	44					0.90	0.84	1.32	2.8				
5R0	5.0							31	24							2.40	2.90
5R3	5.3						38								1.90		
5R4	5.4					76								1.60			
5R6	5.6		170	100.9							0.80	1.17					
6R0	6.0							35								2.25	
6R2	6.2					96	45		27					1.40	1.80		2.50
6R3	6.3																
6R8	6.8	170	200	108.9	46					0.73	0.76	1.12	2.6				
7R3	7.3							54								2.10	
7R4	7.4								31								2.30
8R2	8.2		245	117.5			53				0.68	1.04			1.60		
8R6	8.6							58								1.85	
8R7	8.7								34								2.20
8R9	8.9					116								1.25			
100	10	210	280	128.3	150	124	65	65	38	0.55	0.61	1.00	1.8	1.20	1.30	1.70	2.00
120	12		320	131.6		153	76	70	53		0.56	0.84		1.10	1.20	1.55	1.70
150	15	295	360	149.0	210	196	103	84	57	0.45	0.50	0.76	1.6	0.97	1.10	1.40	1.60
180	18		400	166.0		210	110	95	92		0.48	0.72		0.85	1.00	1.32	1.50
220	22	430	480	235.0	270	290	122	128	96	0.40	0.41	0.70	1.4	0.80	0.90	1.20	1.30
270	27		570	261.0		330	175	142	109		0.35	0.58		0.75	0.85	1.05	1.20
330	33	675	694	331.3		386	189	165	124	0.32	0.32	0.56		0.65	0.75	0.97	1.10
390	39		800	383.7		520	212	210	138		0.30	0.50		0.57	0.70	0.86	1.00
470	47		950	587.0		595	250	238	150		0.28	0.48		0.54	0.62	0.80	0.95
560	56		1080	624.5		665	305	277	202		0.26	0.41		0.50	0.58	0.73	0.85
680	68		1300	699.0		840	355	304	234		0.24	0.35		0.43	0.52	0.65	0.75
820	82			914.8		978	463	390	324			0.32		0.41	0.46	0.60	0.70
101	100			1020		1200	520	535	358			0.29		0.36	0.42	0.54	0.65
121	120			1270								0.27					
151	150			1350								0.24					
181	180			1540								0.22					

Test Freq. (L): SCDS 3D16(100KHz/ 0.1V) , 4D28/ 4D40 (100KHz/ 1V) , SCDS 5D18/ 5D28/ 6D28/ 6D38 (10KHz/ 1V)
SCDS 127: 1.2~7.6μH (100KHz/ 1V) 10~1000μH (1KHz /1V)
SCDS 4D18: 1.0~8.2μH (7.96MHz/ 1V), 10~39μH (100KHz/ 1V)

Other type: Rated current: The rated current indicates the current when the inductance decrease to 65%. Over of it's nominal value or D.C. current when the temperature rising △t=40°C lower, whichever is lower.

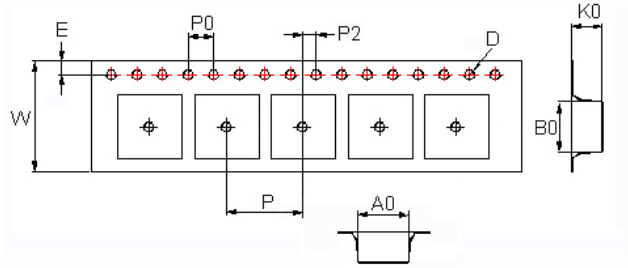
Test Instrument: L: Agilent/ E4980 or HP4284A (over 1MHz), HP4285A (under 1MHz)
RDC: CH502BC
Rated Current: HP4284+42841A or WK3260B+WK3265B

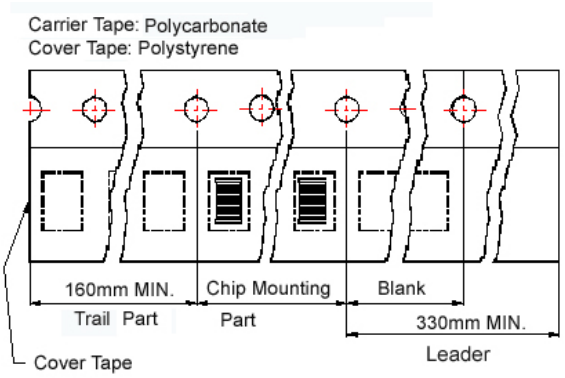
Tolerance Of Inductors

- SCDS 3D16 1.5 ~ 33μH ± 30%
- SCDS 4D18 1.0 ~ 68μH ± 30%
- SCDS 4D28 1.2 ~ 180μH ± 30%
- SCDS 4D40 2.2 ~ 22μH ± 30%
- SCDS 5D18 4.1 ~ 100μH ± 30%
- SCDS 5D28 2.5 ~ 100μH ± 30%
- SCDS 6D28 3.0 ~ 100μH ± 30%
- SCDS 6D38 3.3 ~ 100uH ± 30%
- Tolerance： M = ±20% , T = ±30% , N = $^{+40}_{-20}$%

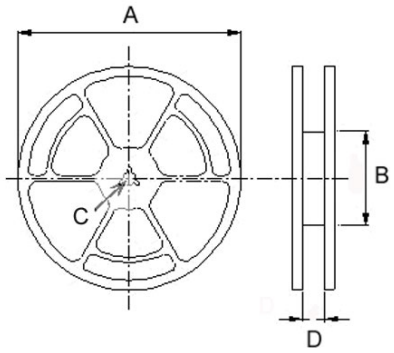
Packaging Specifications

Tape Dimensions





Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
SCDS 3D16	4.1	4.1	2.0	1.5	1.75	12	8	4	2	178	60	13	13.2	1000
SCDS 4D18	5.3	5.3	2.4	1.5	1.75	12	8	4	2	330	100	13	13.4	2000
SCDS 4D28	5.3	5.3	3.4	1.5	1.75	12	8	4	2	330	100	13	13.4	2000
SCDS 4D40	5.35	5.35	4.1	1.55	1.75	12	8	4	2	330	100	13	13.4	1000
SCDS 5D18	6.2	6.2	2.2	1.5	1.75	12	8	4	2	330	100	13	13.4	2000
SCDS 5D28	6.2	6.2	3.2	1.5	1.75	12	8	4	2	330	100	13	13.4	2000
SCDS 6D28	7.25	7.25	3.35	1.55	1.75	16	12	4	2	330	100	13	17.4	1500
SCDS 6D38	7.1	7.1	4.1	1.55	1.75	16	12	4	2	330	100	13	17.4	1000

SCDS Series

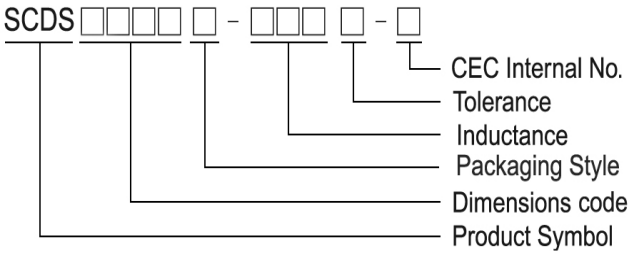
Features

- RoHS compliant
- Available in magnetically shielding
- Low DC resistance
- Suitable for large currents
- Ideal for DC – DC converter inductor applications
- Available on tape and reel for auto surface mounting

Applications

- Power supply for VTRs
- OA equipment
- LCD televisions
- Notebook PCs
- Portable communication devices
- DC / DC converters, etc

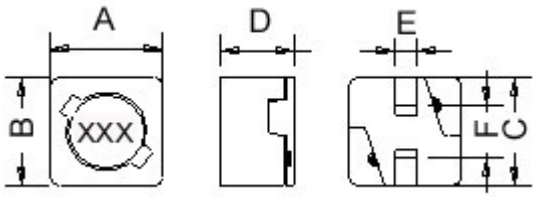
Product Identification



- T : Packaging: Tape and Reel

SCDS 62 / 64

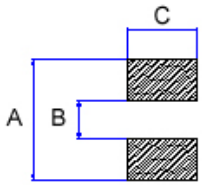
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E	F
SCDS62	6.2±0.3	5.9±0.3	6.0±0.3	3^{+0}	1.5	2.8
SCDS64	6.2±0.3	5.9±0.3	6.0±0.3	5^{+0}	1.5	2.8

Recommended Pattern

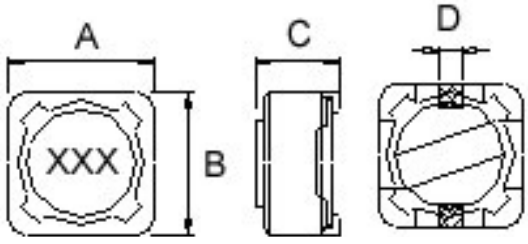


Dimensions in mm

TYPE	A	B	C
SCDS62	8.1	4	2.5
SCDS64	8.1	4	2.5

SCDS 73/ 74

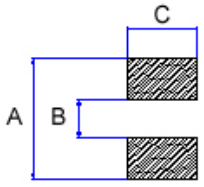
Shape and Dimensions



Dimension in mm

TYPE	A	B	C	D
SCDS73	7.3±0.2	7.3±0.2	3.4^{+0}	1.8
SCDS74	7.3±0.2	7.3±0.2	4.5^{+0}	1.8

Recommended Pattern

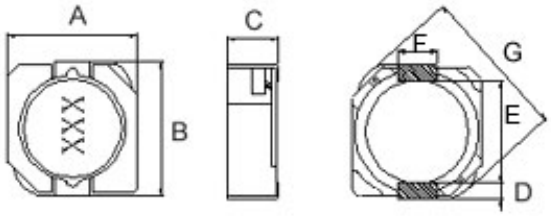


Dimension in mm

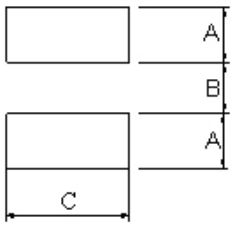
TYPE	A	B	C
SCDS73	8.4	4.4	2.2
SCDS74	8.4	4.4	2.2

SCDS 103R/ 104R/ 105R

Shape and Dimensions



Recommended Pattern



Dimensions in mm

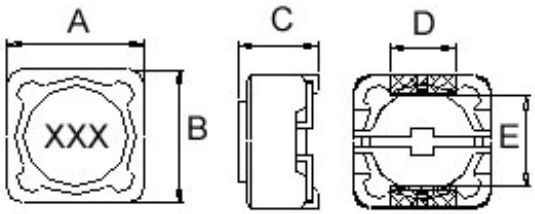
TYPE	A	B	C	D	E	F	G
SCDS103R	10.3^{+0}	10.5^{+0}	3.1^{+0}	1.2	7.7	3.0	13.5^{+0}
SCDS104R	10.3^{+0}	10.5^{+0}	4^{+0}	1.2	7.7	3.0	13.5^{+0}
SCDS105R	10.3^{+0}	10.5^{+0}	5.1^{+0}	1.2	7.7	3.0	13.5^{+0}

Dimension in mm

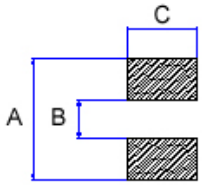
TYPE	A	B	C
SCDS103R	1.6	7.3	3.2
SCDS104R	1.6	7.3	3.2
SCDS105R	1.6	7.3	3.2

SCDS 124/125/127

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E
SCDS124	12.5^{+0}	12.5^{+0}	4.5^{+0}	5	7.6
SCDS125	12.5^{+0}	12.5^{+0}	6^{+0}	5	7.6
SCDS127	12.5^{+0}	12.5^{+0}	8^{+0}	5	7.6

Dimensions in mm

TYPE	A	B	C
SCDS124	13	7	5.4
SCDS125	13	7	5.4
SCDS127	13	7	5.4

Standard Specifications

Stamp	Inductance (μH)	RDC (mΩ) Max									
		SCDS 62T	SCDS 64T	SCDS 73	SCDS 74	SCDS 103R	SCDS 104R	SCDS 105R	SCDS 124	SCDS 125	SCDS 127
R80	0.8							4.3			
1R2	1.2										7.0
1R5	1.5						8.1	5.8			
2R2	2.2							11			
2R4	2.4										11.5
2R5	2.5						10.5				
3R3	3.3	68						10.4			
3R5	3.5										13.5
3R8	3.8						13				
3R9	3.9								15		
4R7	4.7	80				30		12.3	18		15.8
5R2	5.2						22				
5R5	5.5	96									
6R1	6.1										17.6
6R8	6.8	100				35		18	23		
7R0	7.0						27				
7R6	7.6										20.0
8R2	8.2	100						20			
100	10	150	120	72	49	59	35	26	28	25	21.6
120	12	200	130	98	58			33	38	27	24.3
150	15	230	180	130	81	91	50	41	50	30	27.0
180	18	270	240	140	91			46	57	34	39.2
220	22	340	270	190	110		73	61	66	36	43.2
270	27	380	300	210	150			69	80	51	45.9
330	33	450	330	240	170	202	93	84	97	57	64.8
390	39	490	370	320	230			106	132	68	72.9
470	47	690	520	360	260		128	130	150	75	100
560	56	780	560	470	350			149	190	110	110
680	68	1070	630	520	380		213	201	220	120	140
820	82	1210	710	690	430			227	260	140	160
101	100	1390	1030	790	610		304	253	308	160	220
121	120	1900	1150	890	660			303	380	170	250
151	150	2180	1680	1270	880		506	370	530	230	280
181	180	2770	1870	1450	980			419	620	290	350
221	220	3120	2080	1650	1170		756	500	700	400	390
271	270	4380	2370	2310	1640			672	876	460	560
331	330	4940	2670	2620	1860		1.09	812	990	510	640
391	390		2940	2940	2850			953		690	700
471	470		3930	4180	3010			1289		770	980
561	560		5430	4670	3620			1430		860	1070
681	680		7320	5730	4630			1599		1200	1460
821	820		8240	6540	5200			1768		1340	1640
102	1000		9260	9440	6000			1989		1530	1820

Test Freq. (L): 103R/ 104R/ 105R/ 124 (100KHz/ 1V) , SCDS 127: 1.2~7.6μH (100KHz/ 1V) 10~1000μH (1KHz /1V)
SCDS 62T: 3.3~8.2μH (7.96MHz/ 1V), 10~82μH (2.52MHz/ 1V), 100~330μH(1KHz/ 1V)
SCDS 64T/ 73/ 74/ 125: (1KHz/ 1V)

Isat: Inductance drop = 35% typ.

Test Instrument: L: Agilent/ E4980 or HP4284A (over 1MHz), HP4285A (under 1MHz)
RDC: CH502BC
Rated Current: HP4284+42841A or WK3260B+WK3265B

Standard Specifications

Stamp	Inductance (μH)	Isat (A)									
		SCDS 62	SCDS 64	SCDS 73	SCDS 74	SCDS 103R	SCDS 104R	SCDS 105R	SCDS 124	SCDS 125	SCDS 127
R80	0.8							13.5			
1R2	1.2										9.80
1R5	1.5						10.0	10.5			
2R2	2.2							9.25			
2R4	2.4										8.00
2R5	2.5						7.5				
3R3	3.3	1.94						7.8			
3R5	3.5										7.50
3R8	3.8						6.0				
3R9	3.9								6.50		
4R7	4.7	1.63				4.65		6.40	5.70		6.80
5R2	5.2						5.5				
5R5	5.5	1.40									
6R1	6.1										6.60
6R8	6.8	1.33				3.84		5.40	4.90		
7R0	7.0						4.8				
7R6	7.6										5.90
8R2	8.2	1.14						4.85			
100	10	1.10	1.35	1.68	1.84	3.18	4.4	4.45	4.50	4.00	5.40
120	12	1.00	1.22	1.52	1.71			4.00	4.00	3.50	4.90
150	15	0.90	1.11	1.33	1.47	2.60	3.6	3.60	3.20	3.30	4.50
180	18	0.80	1.02	1.20	1.31			3.20	3.10	3.00	3.90
220	22	0.74	0.91	1.07	1.23		2.9	2.95	2.90	2.80	3.60
270	27	0.66	0.82	0.96	1.12			2.70	2.80	2.30	3.40
330	33	0.59	0.74	0.91	0.96	1.74	2.3	2.50	2.70	2.10	3.00
390	39	0.54	0.69	0.77	0.91			2.30	2.10	2.00	2.75
470	47	0.50	0.62	0.76	0.88		2.1	2.00	1.90	1.80	2.50
560	56	0.46	0.58	0.68	0.75			1.90	1.80	1.70	2.35
680	68	0.42	0.51	0.61	0.69		1.5	1.65	1.50	1.50	2.10
820	82	0.38	0.46	0.57	0.61			1.50	1.30	1.40	1.95
101	100	0.34	0.42	0.50	0.60		1.35	1.35	1.20	1.30	1.70
121	120	0.31	0.38	0.49	0.52			1.28	1.10	1.10	1.60
151	150	0.28	0.35	0.43	0.46		1.15	1.12	0.95	1.00	1.42
181	180	0.26	0.32	0.39	0.42			1.04	0.85	0.90	1.30
221	220	0.23	0.29	0.35	0.36		0.92	0.94	0.80	0.80	1.16
271	270	0.22	0.26	0.32	0.34			0.84	0.60	0.75	1.06
331	330	0.19	0.23	0.28	0.32		0.70	0.75	0.50	0.68	0.95
391	390		0.22	0.26	0.29			0.70		0.65	0.88
471	470		0.20	0.24	0.26			0.60		0.58	0.79
561	560		0.18	0.22	0.23			0.54		0.54	0.73
681	680		0.17	0.19	0.22			0.52		0.48	0.67
821	820		0.15	0.18	0.20			0.50		0.43	0.60
102	1000		0.14	0.16	0.18			0.48		0.40	0.55

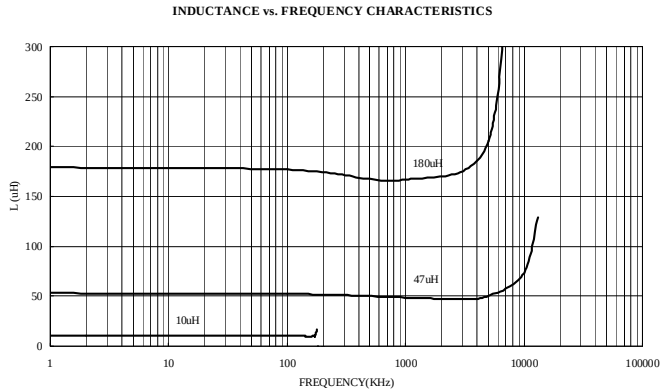
Tolerance Of Inductors

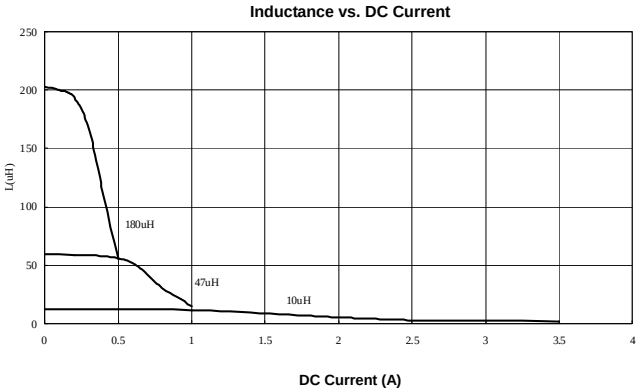
- SCDS 62T 3.3 ~ 330uH ± 20%
- SCDS 64T 10 ~ 1000uH ± 20%
- SCDS 73 10 ~ 1000uH ± 20%
- SCDS 74 10 ~ 1000uH ± 20%
- SCDS 103R 4.7~33uH ± 30%
- Tolerance： M = ±20% , T = ±30% , N = $^{+40}_{-20}$%
- SCDS 104R 1.5 ~ 330uH ± 30%
- SCDS 105R 0.8 ~ 1000uH ± 30%
- SCDS 124 3.9 ~ 330uH ±20%
- SCDS 125 10 ~ 1000uH ± 20%
- SCDS 127 1.2 ~ 7.6uH $^{+40}_{-20}$%
- SCDS 127 10 ~ 1000uH ± 20%

Curves of SCDS Series

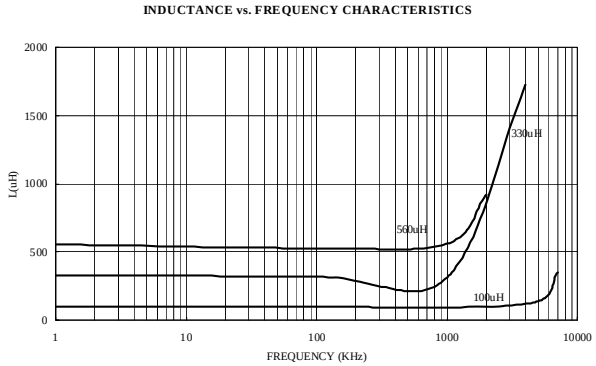
Test Instruments：HP4294 Impedance / Material Analyzer

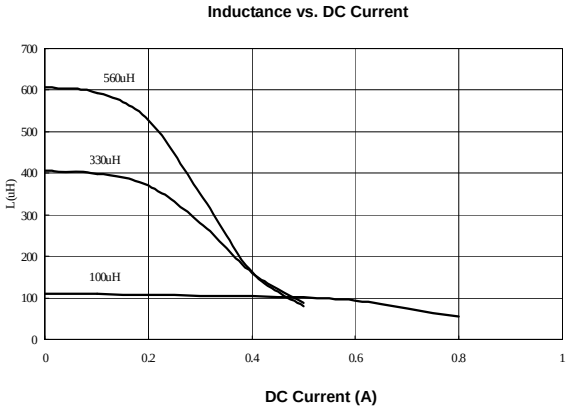
SCDS62



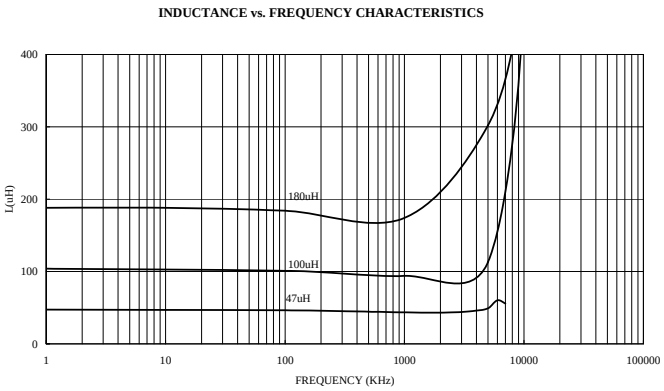


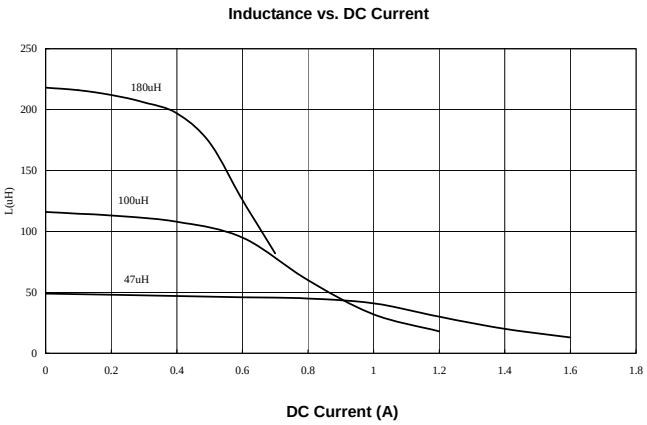
SCDS64





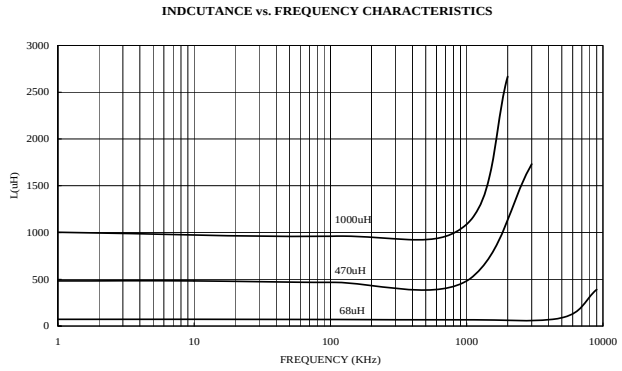
SCDS73

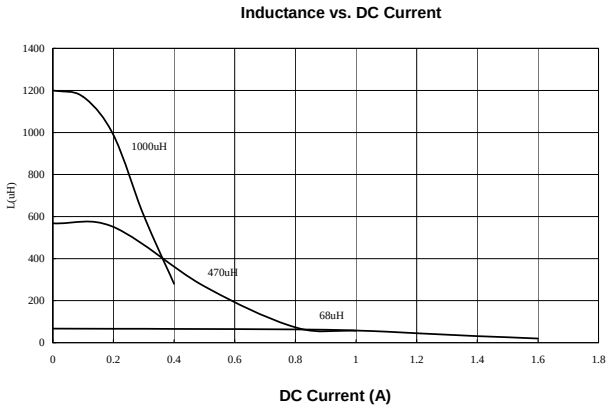




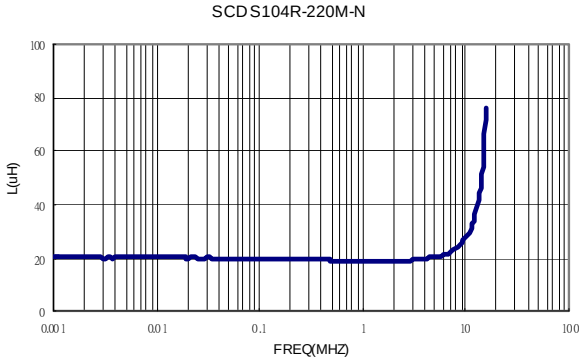
Test Instruments：HP4294 Impedance / Material Analyzer

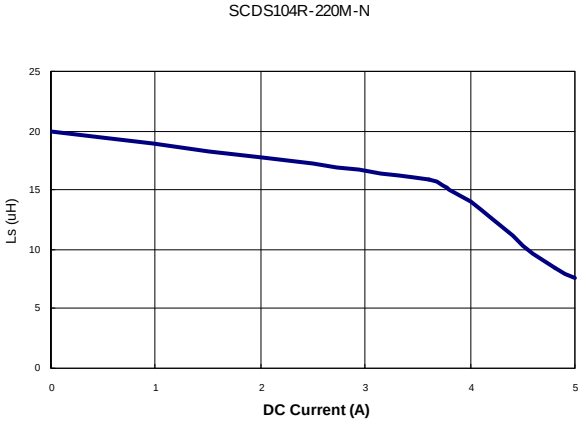
SCDS74



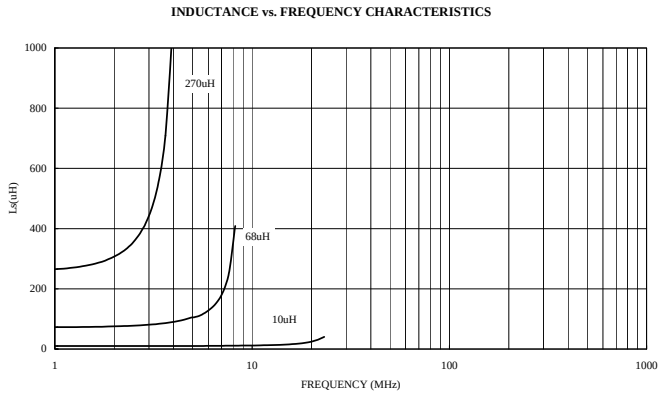


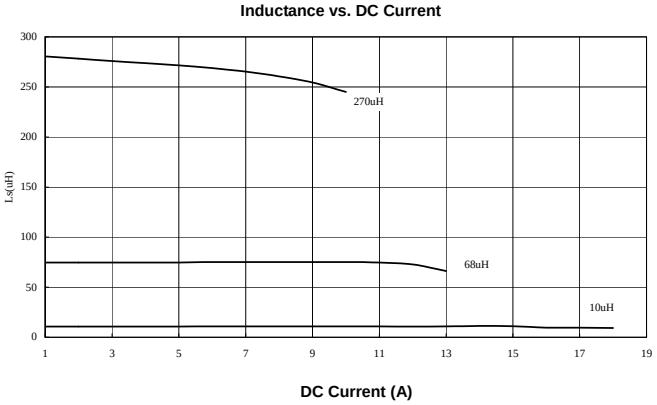
SCDS104R





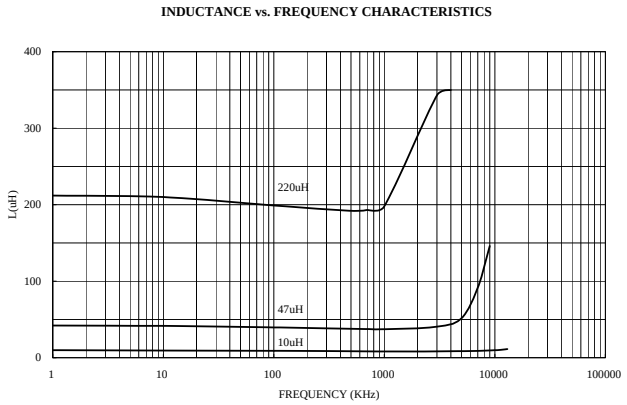
SCDS124

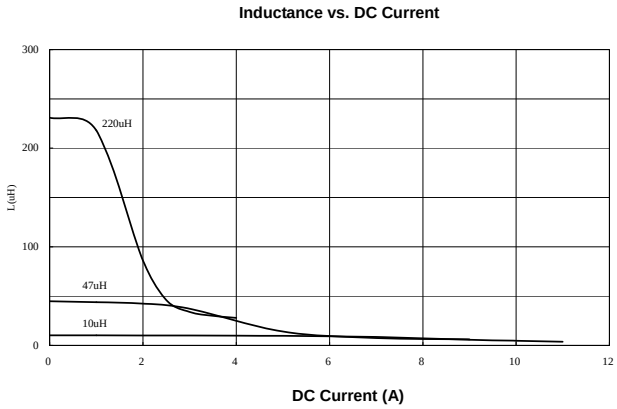




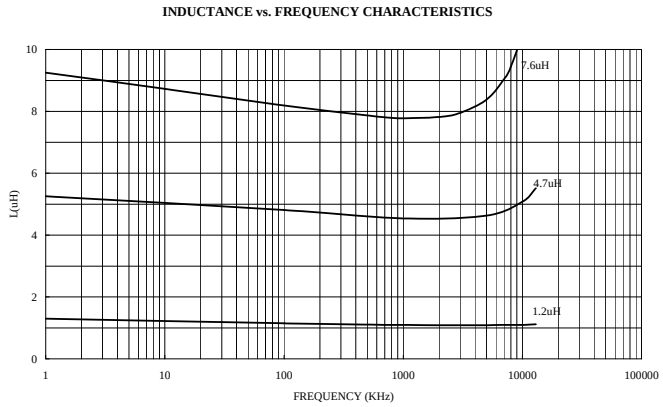
Test Instruments：HP4294 Impedance / Material Analyzer

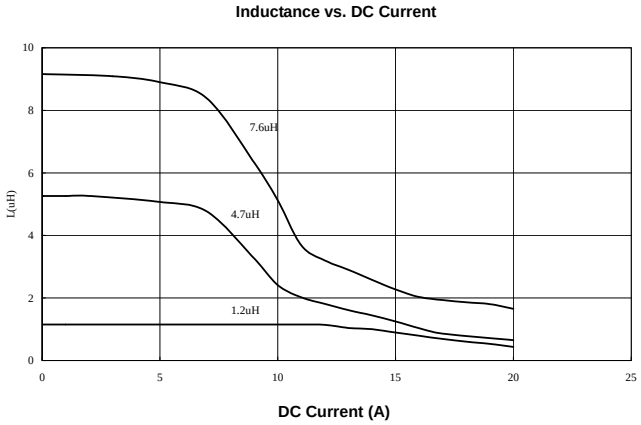
SCDS125





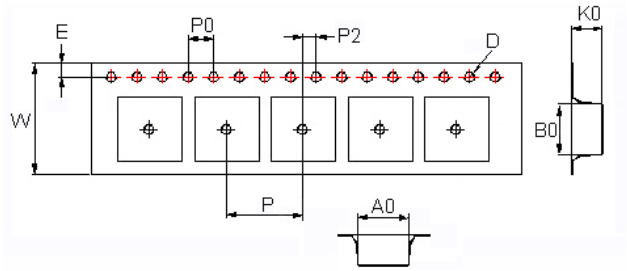
SCDS127

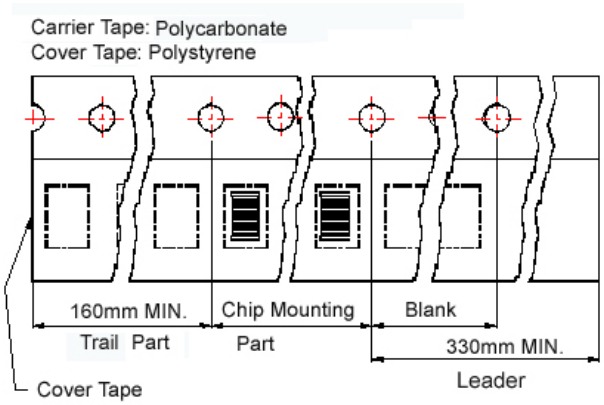




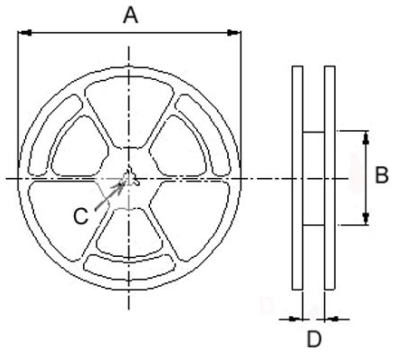
Packaging Specifications

Tape Dimensions





Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
SCDS 62	6.5	6.2	3.4	1.55	1.75	16	12	4	2	330	100	13	17.4	1500
SCDS 64	6.5	6.2	4.95	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
SCDS 73	7.6	7.6	3.6	1.55	1.75	16	12	4	2	330	100	13	17.4	1600
SCDS 74	7.6	7.6	5.0	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
SCDS 103R	10.6	10.75	4.2	1.55	1.75	24	16	4	2	300	100	13	24.4	1000
SCDS 104R	10.6	10.75	4.2	1.5	1.75	24	16	4	2	330	100	13	24.4	1000
SCDS 105R	10.6	10.6	5.0	1.5	1.75	24	16	4	2	330	100	13	24.4	500
SCDS 124	13.0	12.8	5.1	1.55	1.75	24	16	4	2	330	100	13	24.4	500
SCDS 125	12.6	12.6	6.7	1.55	1.75	24	16	4	2	330	100	13	24.4	600
SCDS 127	12.6	12.6	8.7	1.55	1.75	24	16	4	2	330	100	13	24.4	500

SCDS Series

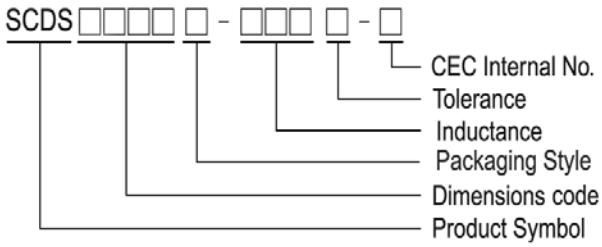
Features

- RoHS compliant
- Available in magnetic shielding
- Low DC resistance
- Suitable for large currents
- Ideal for a variety of DC – DC converter inductor applications
- Available on tape and reel for auto surface mounting

Applications

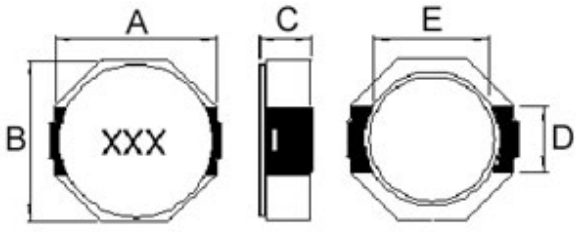
- Power supply for VTRs
- OA equipment
- LCD televisions
- Notebook PCs
- Portable communication devices
- DC / DC converters, etc

Product Identification

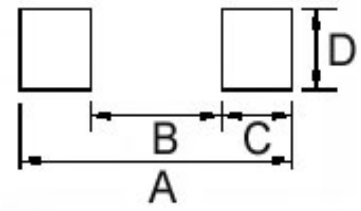


- T : Packaging: Tape and Reel

Shapes and Dimensions



Recommended Pattern



Dimension in mm

TYPE	A	B	C	D	E
SCDS8D43	8.3^{+0}	8.3^{+0}	4.5^{+0}	2.5	6.3

Dimension in mm

TYPE	A	B	C	D
SCDS8D43	10.1	6.1	2.0	2.8

CHILISIN ELECTRONICS CORP.

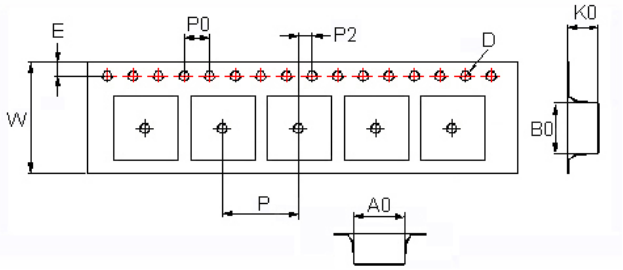
Electrical Characteristics

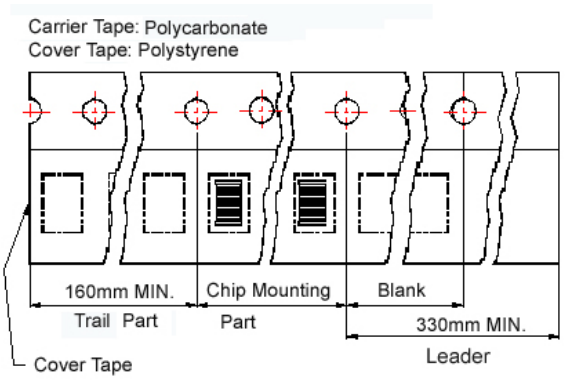
Part Number	Inductance (μH)	Tolerance (±%)	DC Resistance (mΩ) Max	Rated Current (A)
SCDS8D43T-3R3□-N	3.3	30	19	5.7
SCDS8D43T-100□-N	10	30	36	4.0
SCDS8D43T-220□-N	22	30	75	2.4
SCDS8D43T-470□-N	47	30	150	1.8
SCDS8D43T-680□-N	68	30	240	1.5

- When ordering, please specify tolerance and packaging codes.
- Inductance range : 3.3uH to 68uH.
- Inductance tested at 100KHz./1V
- Tolerance: M = ±20%
- Rated current : The rate current indicates the current when the inductance decreases to 65% over of it's nominal value or D.C.current when the temperature rising △T=30℃ lower, whichever is lower.
- Test Instrument: L : HP4284A.
  RDC : CHEN HWA 502BC
  Rated current : HP4284+42841A

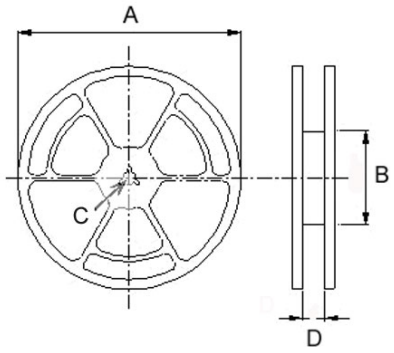
Packaging Specifications

Tape Dimensions





Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
SCDS 8D43	8.4	9.9	4.8	1.55	1.75	24	12	4	2	330	100	13	24.4	1000

SLPS Series

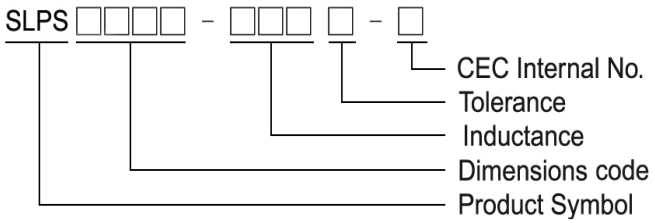
Features

- RoHS compliant
- Very low DCR; excellent current handling
- Compact inductors for power line, considerably smaller compared to inductors with comparable characteristics
- Low coil resistance, making them suitable for large currents

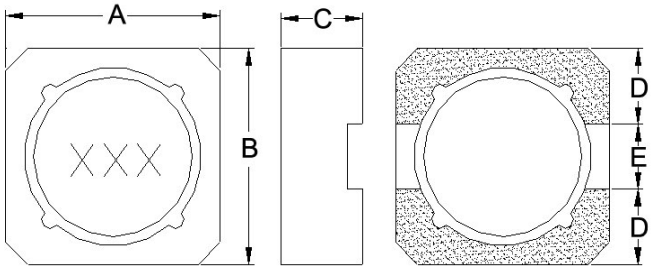
Applications

- Hard disk drives and DSCs
- NB, LCD TV, monitor
- Portable communication devices
- DC / DC converters, etc

Product Identification



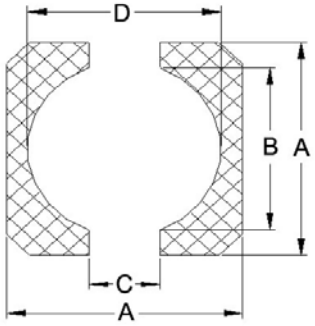
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E
SLPS4018	4.0±0.2	4.0±0.2	1.8Max	1.10Typ.	1.80Typ.
SLPS4025	4.0±0.2	4.0±0.2	2.5Max	1.10Typ.	1.80Typ.
SLPS5020	5.0±0.2	5.0±0.2	2.0Max	1.75Typ.	1.50Typ.

Recommended Pattern



Dimensions in mm

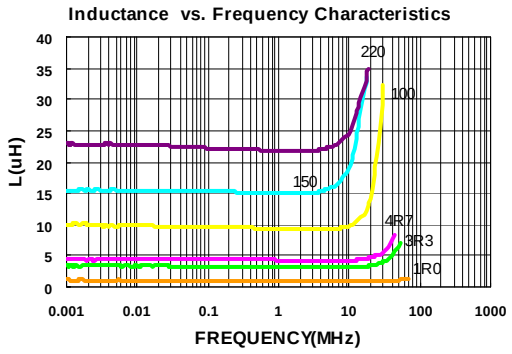
TYPE	A	B	C	D
SLPS4018	4.4	2.4	1.6	3.4
SLPS4025	4.4	2.4	1.6	3.4
SLPS5020	5.3	3.4	1.4	3.7

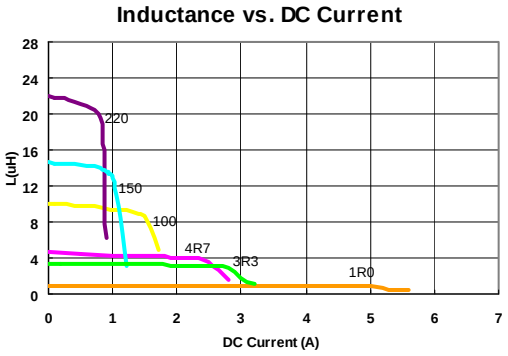
CHILISIN ELECTRONICS CORP.

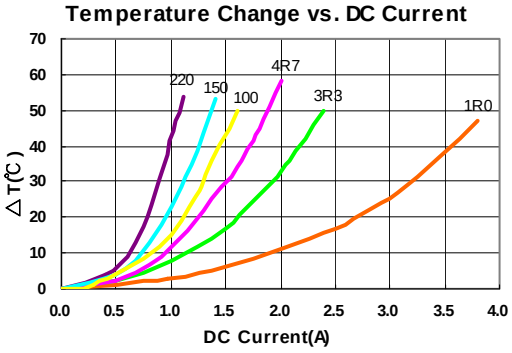
Standard Specifications

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	RDC (mΩ)Max	Isat (A)	Irms (A)
SLPS4018-1R0T-N	1.0	30	100	42	3.90	3.20
SLPS4018-1R8T-N	1.8	30	100	60	2.90	3.00
SLPS4018-2R2T-N	2.2	30	100	70	2.80	2.30
SLPS4018-3R3T-N	3.3	30	100	80	2.00	1.90
SLPS4018-4R7T-N	4.7	30	100	125	1.70	1.60
SLPS4018-100M-N	10	20	100	220	1.30	1.25
SLPS4018-150M-N	15	20	100	260	0.86	1.00
SLPS4018-220M-N	22	20	100	360	0.74	0.90

- Test Freq.(L): 100KHz , 1V
- Tolerance: M = ±20% , T = ±30%
- Isat: Inductance drop ≦ 30%
- Irms : current when the temperature rising △T：40℃ Typ.
- Rated DC Current： The less value whith is Isat or Irms
- Test Instrument: L: Agilent/HP 4284A + Agilent/HP 16334A
  RDC: Digital Milliohm Meter Chroma 16502, or equivalent
  Isat: HP4284+42841A
  Irms: Agilent 6641 SYSTEM DC POWER SUPPLY





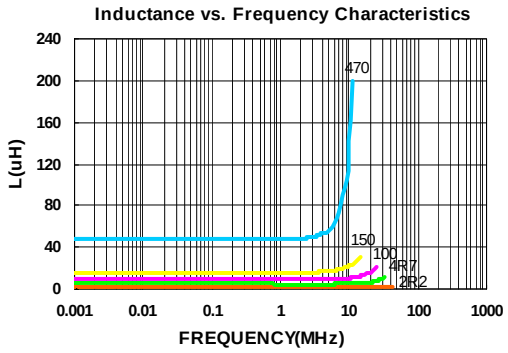


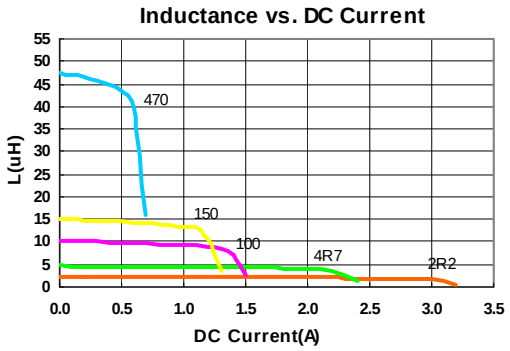
CHILISIN ELECTRONICS CORP.

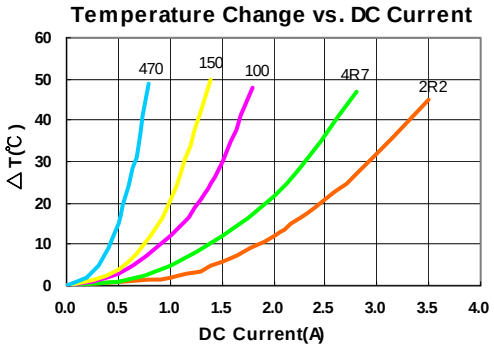
Standard Specifications

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	RDC (mΩ)Max	Isat (A)	Irms (A)
SLPS4025-2R2T-N	2.2	30	100	43	1.90	3.15
SLPS4025-3R3M-N	3.3	20	100	60	1.80	2.45
SLPS4025-4R7M-N	4.7	20	100	62	1.57	2.45
SLPS4025-100M-N	10	20	100	136	1.00	1.58
SLPS4025-150M-N	15	20	100	185	0.88	1.20
SLPS4025-470M-N	47	20	100	560	0.48	0.70

- Test Freq.(L): 100KHz , 1V
- Tolerance: M = ±20% , T = ±30%
- Isat: Inductance drop ≦ 30%
- Irms : current when the temperature rising △T：40℃ Typ.
- Rated DC Current： The less value whith is Isat or Irms.
- Test Instrument: L: Agilent/HP 4284A + Agilent/HP 16334A
  RDC: Digital Milliohm Meter Chroma 16502, or equivalent
  Isat: HP4284+42841A
  Irms: Agilent 6641 SYSTEM DC POWER SUPPLY





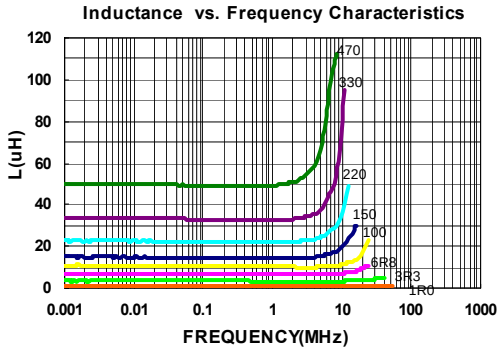


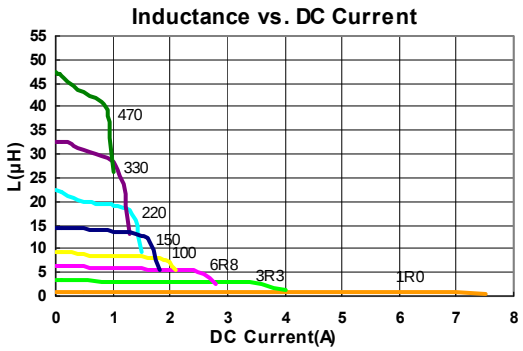
CHILISIN ELECTRONICS CORP.

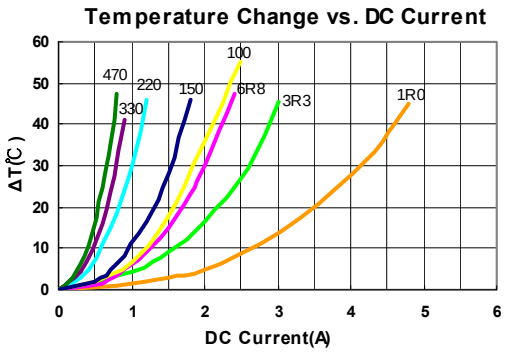
Standard Specifications

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	RDC (mΩ)Max	Isat (A)	Irms (A)
SLPS5020-1R0T-N	1.0	30	100	30.0	3.80	4.50
SLPS5020-1R5T-N	1.5	30	100	35.0	3.20	4.50
SLPS5020-2R0T-N	2.0	30	100	45.0	3.00	3.70
SLPS5020-3R3T-N	3.3	30	100	56.6	2.40	2.60
SLPS5020-4R7T-N	4.7	30	100	94.0	2.20	2.15
SLPS5020-6R8T-N	6.8	30	100	118	1.80	1.90
SLPS5020-8R2T-N	8.2	30	100	126	1.60	1.68
SLPS5020-100M-N	10	20	100	160	1.60	1.50
SLPS5020-150M-N	15	20	100	240	1.10	1.46
SLPS5020-220M-N	22	20	100	350	0.78	0.95
SLPS5020-330M-N	33	20	100	480	0.66	0.80
SLPS5020-470M-N	47	20	100	720	0.54	0.68

- Test Freq.(L): 100KHz , 1V
- Tolerance: M = ±20% / T = ±30%
- Isat: Inductance drop ≦ 30%
- Irms : current when the temperature rising △T：40℃ Typ.
- Rated DC Current： The less value whith is Isat or Irms.
- Test Instrument: L: Agilent/HP 4284A + Agilent/HP 16334A
  RDC: Digital Milliohm Meter Chroma 16502, or equivalent
  Isat: HP4284+42841A
  Irms: Agilent 6641 SYSTEM DC POWER SUPPLY



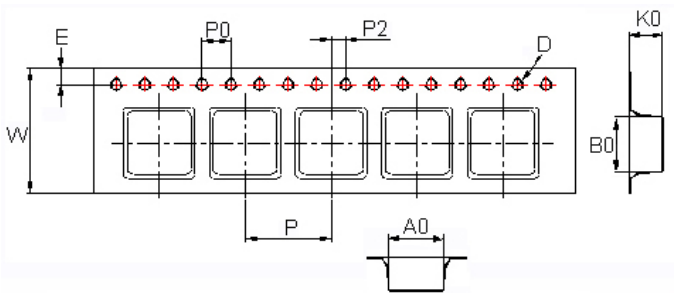




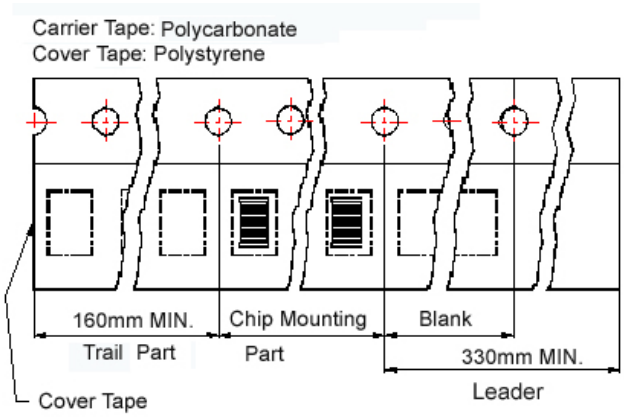
CHILISIN ELECTRONICS CORP.

Packaging Specifications

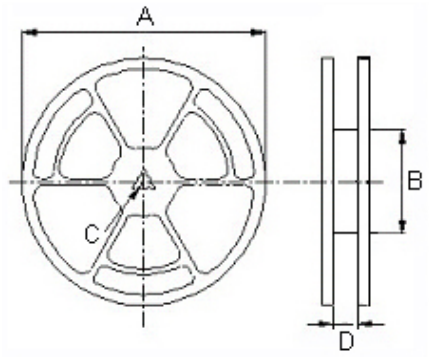
Tape Dimensions



Reel Dimensions



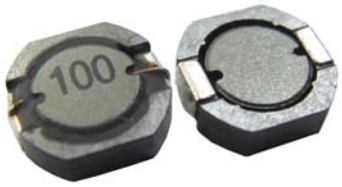
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
SLPS4018	4.1	4.1	2.0	1.55	1.75	12	8	4	2	178	60.2	13	13.2	1000
SLPS4025	4.3	4.3	2.7	1.55	1.75	12	8	4	2	178	60.2	13	13.2	800
SLPS5020	5.3	5.3	2.4	1.55	1.75	12	8	4	2	330	100	13	13.4	2000

SCPS Series



The SCPS Series is designed for low profile type with low RDC and large current. The magnetic shielding supports high – density mounting. This series also provides working – frequency up to 1MHz.

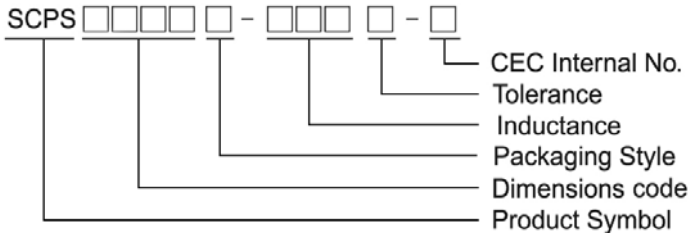
Features

- RoHS compliant
- Low Rdc and high saturation current for portable DC to DC converter line
- High magnetic shielding construction provides high resolution for EMC protection
- Support lead-free soldering

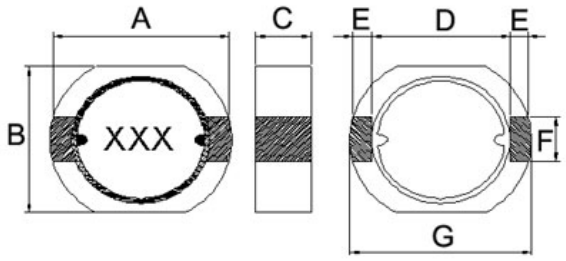
Applications

- Notebook PC
- Set top box
- LCD TV
- LCD displays
- Portable communication device
- DC/DC converters

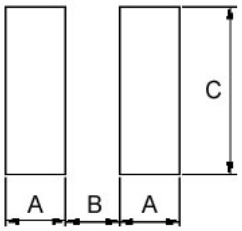
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E	F	G
SCPS0725	7.5±0.3	7.4±0.3	2.5Max	5.6	1.2	2.5	8.7Max
SCPS0740	7.5±0.3	7.4±0.3	4.0Max	5.6	1.2	2.5	9.2Max

Dimensions in mm

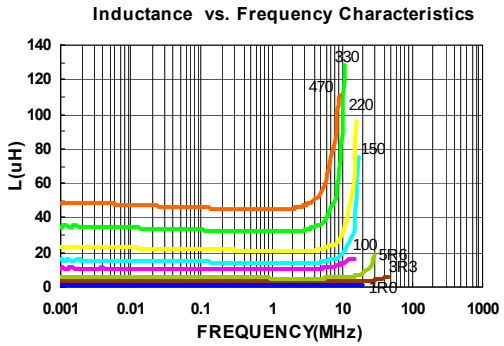
TYPE	A	B	C
SCPS0725	1.5	5.4	2.8
SCPS0740	1.5	5.4	2.8

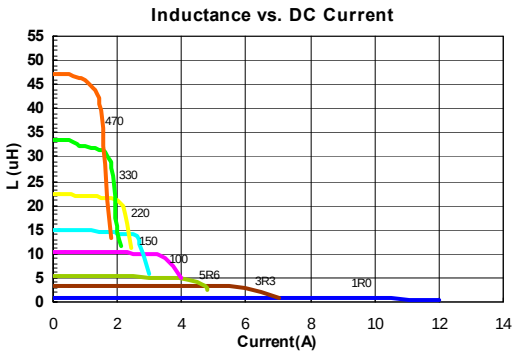
CHILISIN ELECTRONICS CORP.

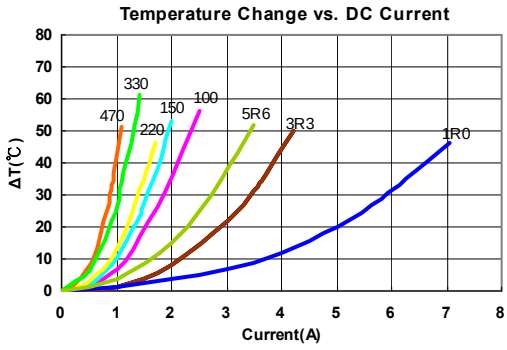
Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	RDC (mΩ) Max	Isat (A)	Irms (A)
SCPS0725T-1R0□-N	1.0	30	100	14.28	8.3	6.22
SCPS0725T-1R5□-N	1.5	30	100	19.70	7.2	5.00
SCPS0725T-2R2□-N	2.2	30	100	24.09	5.4	4.40
SCPS0725T-3R3□-N	3.3	30	100	41.20	4.4	3.70
SCPS0725T-4R7□-N	4.7	30	100	49.70	4.0	3.20
SCPS0725T-5R6□-N	5.6	20,30	100	58.90	3.9	2.90
SCPS0725T-6R8□-N	6.8	20,30	100	66.30	3.5	2.70
SCPS0725T-100□-N	10	20,30	100	92.40	2.8	1.90
SCPS0725T-150□-N	15	20,30	100	170.0	2.3	1.70
SCPS0725T-220□-N	22	20,30	100	210.0	1.5	1.52
SCPS0725T-330□-N	33	20,30	100	320.0	1.4	1.10
SCPS0725T-470□-N	47	20,30	100	490.0	1.2	0.95

- Test Freq.(L): 100KHz , 1V
- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% / T = ±30%
- Isat : Inductance drop ≦ 30%
- Irms : current when the temperature rising △T：40℃ Typ.
- Test Instrument : L: HP4284A.+Aglient 16334A
- RDC :CHROMA WILLIOHM METER MODE 16502
- IDC :HP4284A+HP42841A
- Irms: Agilent 6641 SYSTEM DC POWER SUPPLY



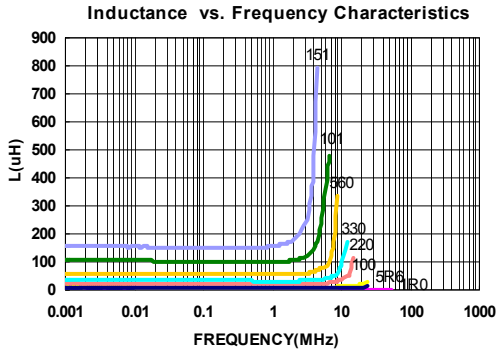


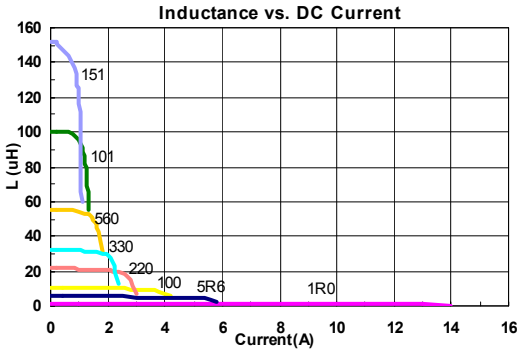


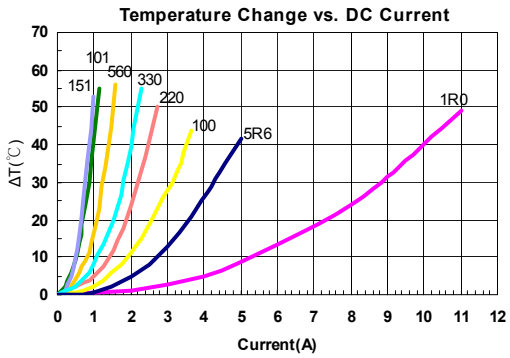
Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (KHz)	RDC (mΩ) Max	Isat (A)	Irms (A)
SCPS0740T-1R0□-N	1.0	30	100	6.38	12.0	9.00
SCPS0740T-1R5□-N	1.5	30	100	8.64	10.0	8.00
SCPS0740T-1R8□-N	1.8	30	100	9.60	8.60	7.92
SCPS0740T-2R5□-N	2.5	30	100	13.6	7.20	7.40
SCPS0740T-3R3□-N	3.3	30	100	17.8	6.80	6.70
SCPS0740T-4R7□-N	4.7	20,30	100	26.6	4.60	4.90
SCPS0740T-5R6□-N	5.6	20,30	100	29.0	4.10	4.60
SCPS0740T-6R8□-N	6.8	20,30	100	34.0	3.90	3.90
SCPS0740T-100□-N	10	20,30	100	55.6	3.40	3.25
SCPS0740T-150□-N	15	20,30	100	74.4	3.00	2.70
SCPS0740T-220□-N	22	20,30	100	98.1	2.40	2.40
SCPS0740T-330□-N	33	20,30	100	140	2.00	1.90
SCPS0740T-470□-N	47	20,30	100	217	1.70	1.48
SCPS0740T-560□-N	56	20,30	100	260	1.50	1.33
SCPS0740T-680□-N	68	20,30	100	310	1.36	1.20
SCPS0740T-820□-N	82	20,30	100	360	1.20	1.12
SCPS0740T-101□-N	100	20,30	100	480	1.12	0.95
SCPS0740T-121□-N	120	20,30	100	560	1.00	0.89
SCPS0740T-151□-N	150	20,30	100	710	0.92	0.82

- Test Freq.(L): 100KHz 1V
- When ordering, please specify tolerance and packaging codes.
- Tolerance : M = ±20% / T = ±30%
- Isat : Inductance drop ≦ 30%
- Irms : current when the temperature rising △T：40℃ Typ.
- Test Instrument : L: HP4284A.+Aglient 16334A
- RDC :CHROMA WILLIOHM METER MODE 16502
- IDC :HP4284A+HP42841A
- Irms: Agilent 6641 SYSTEM DC POWER SUPPLY



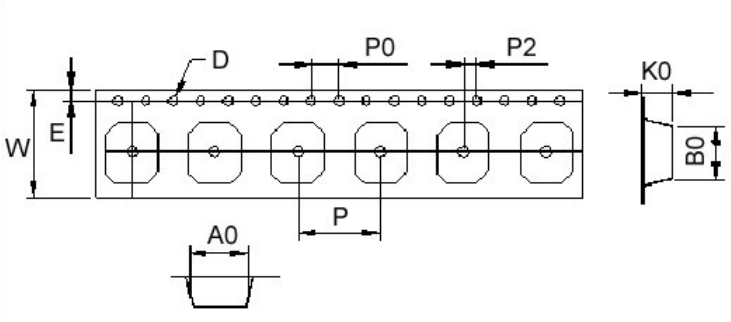




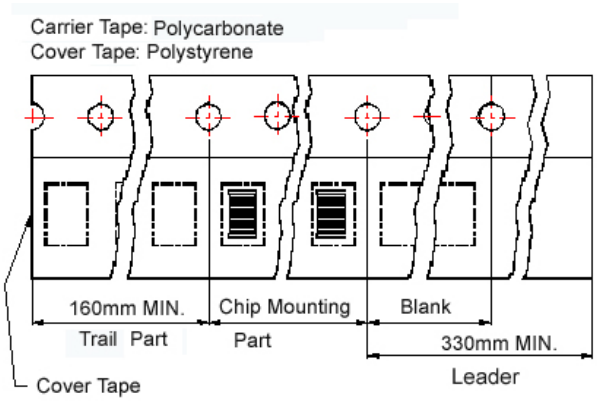
CHILISIN ELECTRONICS CORP.

Packaging Specifications

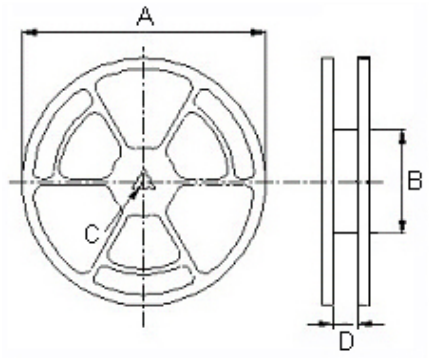
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
SCPS0725	7.6	8.65	2.8	1.55	1.75	16	12	4	2	330	100	13	17.4	1500
SCPS0740	7.6	9.0	4.3	1.55	1.75	16	12	4	2	330	100	13	17.4	1000

SDS Series

These shielded ultra-miniature inductors can help designers achieve significantly longer battery life in handheld communication devices and other portable products. They are designed with a flat top and constructed of heat resistant materials to ensure trouble-free assembly and reflow operations.

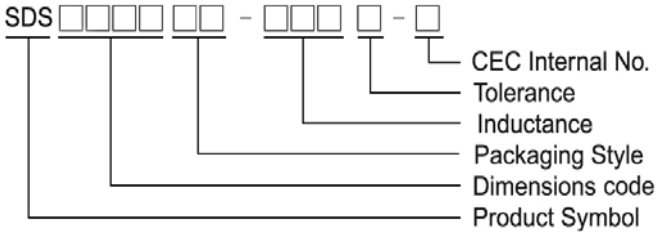
Features

- RoHS compliant
- Smallest size and high performance
- High energy storage and very low resistance

Applications

- Notebook computers, step-up and step-down converters
- Flash memory programmers, etc

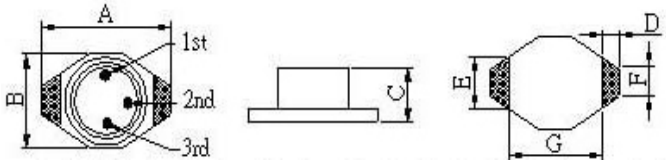
Product Identification



- Packaging: T: Tape and Reel

Shape and Dimensions

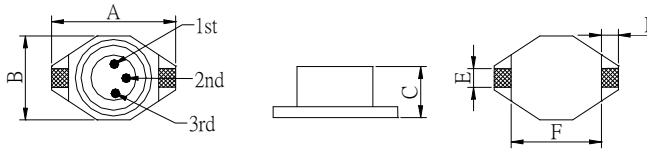
SDS0402



Dimensions in mm

TYPE	A	B	C	D	E	F	G
SDS0402	6.60^{+0}	4.45^{+0}	2.92^{+0}	1.02	3.05	1.27	4.32

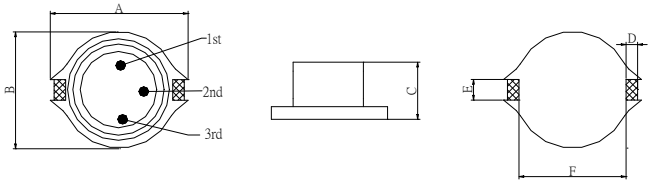
SDS0804



Dimensions in mm

TYPE	A	B	C	D	E	F
SDS0804	12.95^{+0}	9.40^{+0}	5.08^{+0}	2.54	2.54	7.62

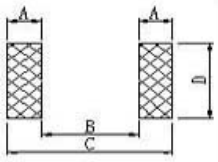
SDS1306



Dimensions in mm

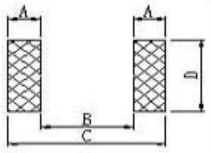
TYPE	A	B	C	D	E	F
SDS1306	18.54^{+0}	15.24^{+0}	7.62^{+0}	2.54	2.54	12.7

Recommended Pattern



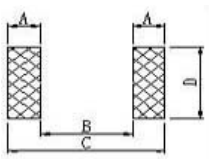
Dimensions in mm

TYPE	A	B	C	D
SDS0402	1.4	4.06	6.86	3.56



Dimensions in mm

TYPE	A	B	C	D
SDS0804	2.92	7.37	13.21	2.79



Dimensions in mm

TYPE	A	B	C	D
SDS1306	2.92	12.45	18.29	2.79

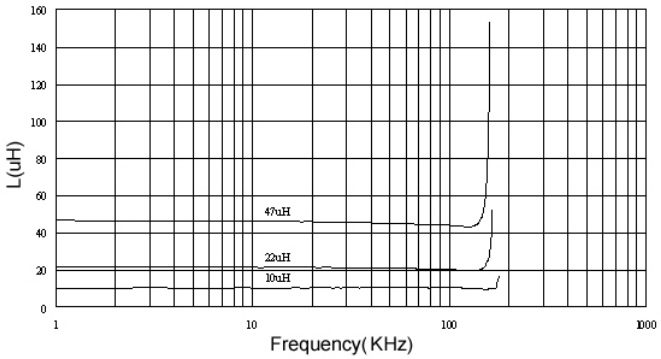
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Q Min	Q Frequency (KHz)	DC Resistance (Ω) Max	SRF (MHz) Typ.	Irms (A)
SDS0402T-1R0M-N	1.0	20	30	200	0.040	200	3.0
SDS0402T-1R5M-N	1.5	20	30	200	0.045	100	2.8
SDS0402T-2R2M-N	2.2	20	40	200	0.050	90	1.8
SDS0402T-3R3M-N	3.3	20	40	200	0.060	90	1.6
SDS0402T-4R7M-N	4.7	20	40	200	0.065	80	1.4
SDS0402T-6R8M-N	6.8	20	40	200	0.070	40	1.2
SDS0402T-100M-N	10	20	40	200	0.075	30	1.0
SDS0402T-150M-N	15	20	40	100	0.090	25	0.80
SDS0402T-220M-N	22	20	40	100	0.110	20	0.70
SDS0402T-330M-N	33	20	40	100	0.190	15	0.60
SDS0402T-470M-N	47	20	40	100	0.230	15	0.50
SDS0402T-680M-N	68	20	40	100	0.290	10	0.40
SDS0402T-101M-N	100	20	40	100	0.480	8	0.30
SDS0402T-151M-N	150	20	40	100	0.590	7	0.26
SDS0402T-221M-N	220	20	40	100	0.770	4	0.22
SDS0402T-331M-N	330	20	40	100	1.4	4	0.20
SDS0402T-471M-N	470	20	40	100	1.8	3	0.19
SDS0402T-681M-N	680	20	40	100	2.2	2	0.18
SDS0402T-102M-N	1000	20	40	100	3.4	1	0.15

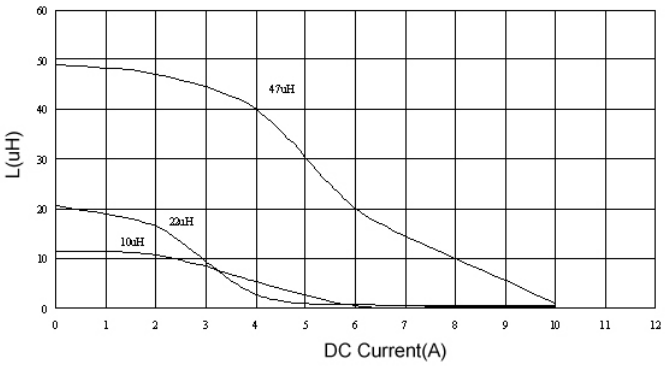
- Inductance tested at 0.1 Vrms, 100KHz.
- 30℃ temperature rise at Irms
- Tolerance: M = ±20%
- Operating temperature range －４０～１２５℃ (Including self - temperature rise)

Test Instruments：HP4294A Impedance / Material Analyzer

Inductance vs. Frequency Characteristics



Inductance vs. DC Current



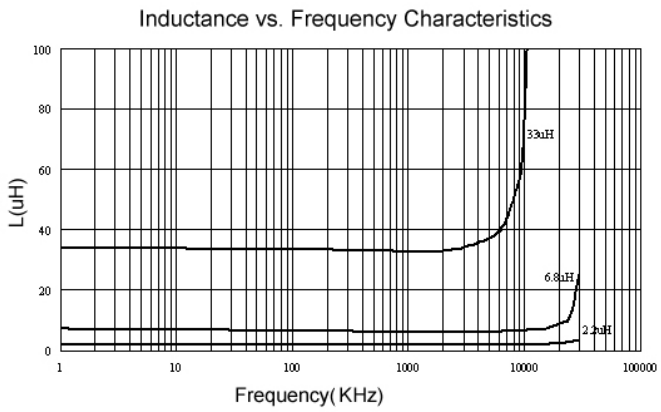
CHILISIN ELECTRONICS CORP.

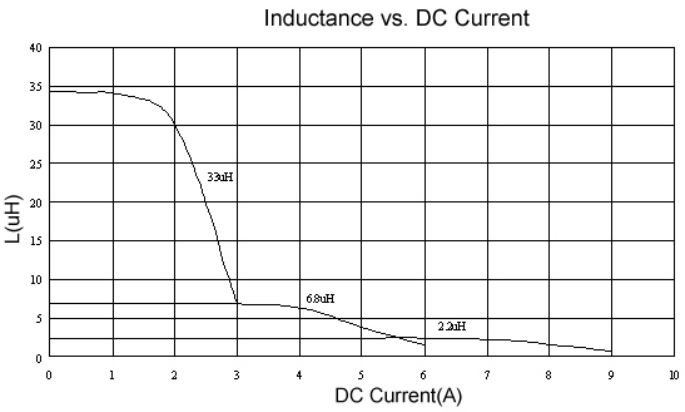
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Q Min	Q Frequency (KHz)	DC Resistance (Ω) Max	SRF (MHz) Typ.	Isat (A)	Irms (A)
SDS0804T-1R0M-N	1.0	20	3	100	0.021	110	5.6	5.0
SDS0804T-1R5M-N	1.5	20	5	100	0.022	90	5.2	4.5
SDS0804T-2R2M-N	2.2	20	5	100	0.032	60	5.0	3.8
SDS0804T-3R3M-N	3.3	20	5	100	0.039	55	3.9	3.3
SDS0804T-4R7M-N	4.7	20	10	100	0.054	30	3.2	2.7
SDS0804T-6R8M-N	6.8	20	10	100	0.075	30	2.8	2.2
SDS0804T-100M-N	10.0	20	10	100	0.101	28	2.4	2.0
SDS0804T-150M-N	15.0	20	15	100	0.15	20	2.0	1.5
SDS0804T-220M-N	22.0	20	20	100	0.207	15	1.6	1.3
SDS0804T-330M-N	33.0	20	20	100	0.334	12	1.4	1.1
SDS0804T-470M-N	47.0	20	20	100	0.472	10	1.0	0.8

- Tested at 100KHz , 0.1 Vrms.
- Inductance drop = 10% typ. At rated Isat.
- 40℃ rise typ. at Irms.
- Tolerance: M = ±20%
- Operating temperature range －４０℃～１２５℃ (Including self - temperature rise)

Test Instruments：HP4294A Impedance / Material Analyzer





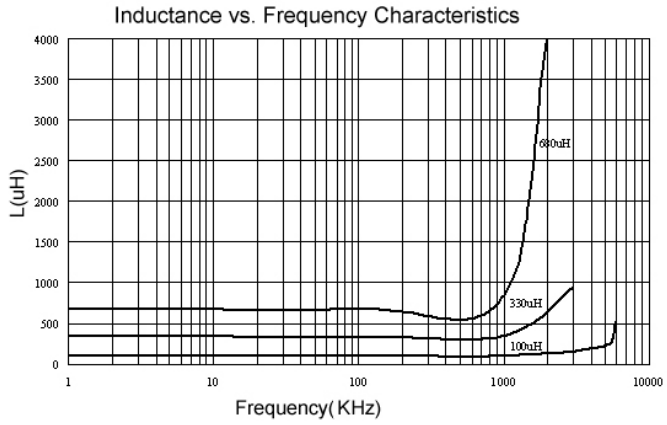
CHILISIN ELECTRONICS CORP.

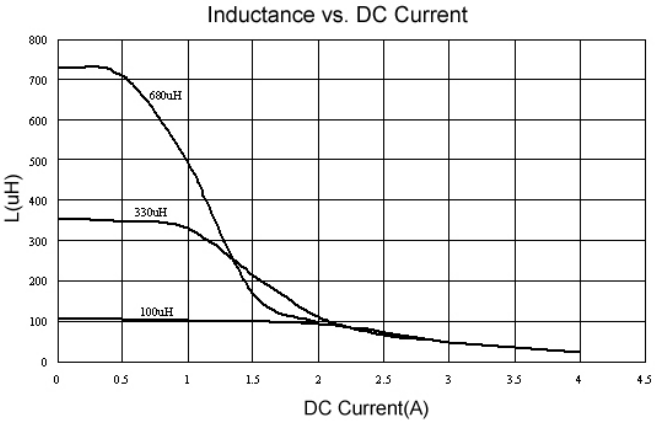
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Q Min	Q Frequency (KHz)	DC Resistance (Ω) Max	Isat (A)	Irms (A)	SRF (MHz) Typ.
SDS1306T-100M-N	10	20	40	100	0.040	5.5	3.9	24
SDS1306T-150M-N	15	20	40	100	0.048	4.5	3.4	16
SDS1306T-220M-N	22	20	30	100	0.059	3.5	3.1	14
SDS1306T-330M-N	33	20	40	100	0.075	3.3	2.8	11
SDS1306T-470M-N	47	20	40	100	0.097	2.7	2.4	8.0
SDS1306T-680M-N	68	20	40	100	0.140	2.2	2.0	7.0
SDS1306T-101M-N	100	20	40	100	0.210	1.7	1.7	5.5
SDS1306T-151M-N	150	20	50	100	0.300	1.3	1.3	4.8
SDS1306T-221M-N	220	20	50	100	0.470	1.1	1.1	4.0
SDS1306T-331M-N	330	20	50	100	0.780	0.86	0.86	3.0
SDS1306T-471M-N	470	20	50	100	1.08	0.73	0.73	2.4
SDS1306T-681M-N	680	20	60	100	1.40	0.64	0.64	2.0
SDS1306T-102M-N	1000	20	60	100	2.01	0.53	0.53	1.0

- Inductance tested at 0.1 Vrms, 100KHz.
- Inductance drop 10% typ. at Isat.
- 40℃ rise typ. at Irms.
- Tolerance: M = ±20%
- Operating temperature range－４０℃～１２５℃ (Including self - temperature rise)

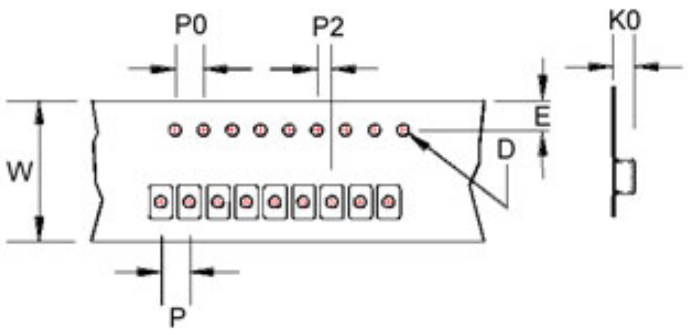
Test Instruments：HP4294A Impedance / Material Analyzer



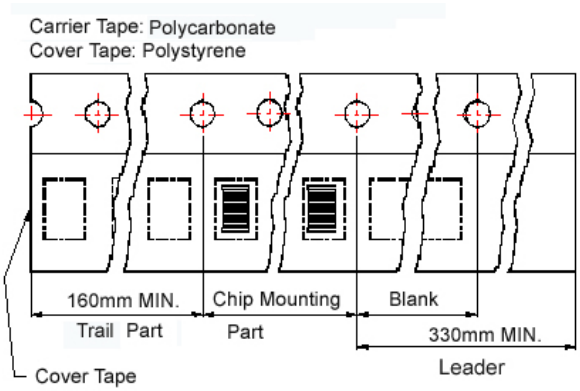


Packaging Specifications

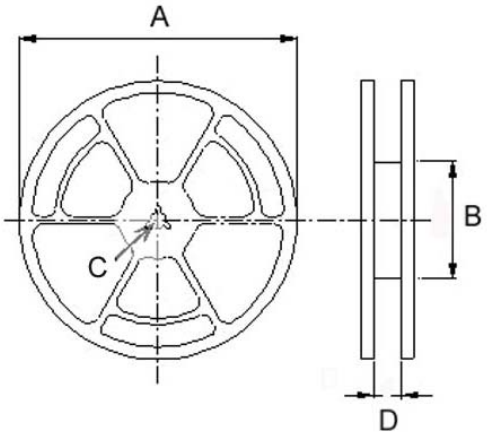
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions

TYPE	Tape Dimensions							Reel Dimensions				Quantity (PCS / REEL)	
	K0	D	E	W	P	P0	P2	A	B	C	D	178mm	330mm
SDS 0402	3.2	1.55	1.75	12	8	4	2	330 178	100 60	13	13.4 13.2	- 750	2500 -
SDS 0804	5.4	1.55	1.75	24	12	4	2	330	100	13	24.4	-	1000
SDS 1306	7.5	1.55	1.75	32	20	4	2	330	100	13	33.4	-	250

SLF Series

SLF series is designed for low profile type with low Rdc and large current. Its magnetic shielded type is suitable for high-density mounting and flat bottom surface allows for reliable mounting onto the board. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

Features

- RoHS compliant
- Low resistance and high rated currents

Applications

- Portable telephones
- Computers
- Hard disk drives and other electronic devices

Products Identification

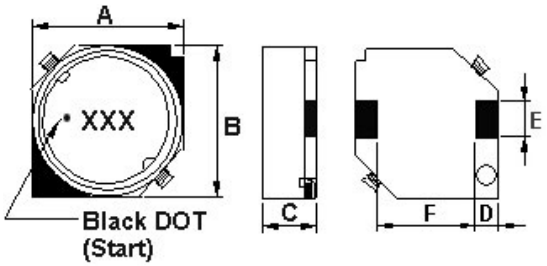
SLF □□□□□-□□□□-□

- CEC Internal No.
- Tolerance
- Inductance
- Packaging Style
- Dimensions code
- Product Symbol

- Packaging: T：Tape and Reel

Shape and Dimensions

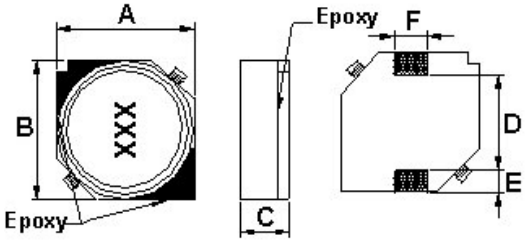
SLF 0628



Dimension in mm

TYPE	A	B	C	D	E	F
SLF 0628	6 ± 0.2	6 ± 0.2	2.8 ± 0.2	1.5 TYP	2 ± 0.1	3.0 TYP

SLF0728/ 0732/ 0745/ 0730

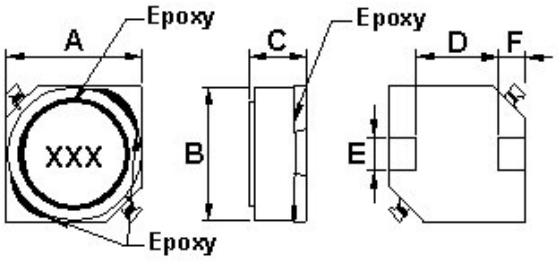


Dimension in mm

TYPE	A	B	C	D	E	F
SLF 0728	7 ± 0.2	7 ± 0.2	2.8 ± 0.2	4.9 TYP	0.9TYP	2.0 TYP
SLF 0730	7 ± 0.2	7 ± 0.2	3.0 ± 0.2	4.9 TYP	0.9TYP	2.0 TYP
SLF 0732	7 ± 0.2	7 ± 0.2	3.2 ± 0.2	4.9 TYP	0.9TYP	2.0 TYP
SLF 0745	7 ± 0.2	7 ± 0.2	4.5 ± 0.3	4.9 TYP	0.9TYP	2.0 TYP

Shape and Dimensions

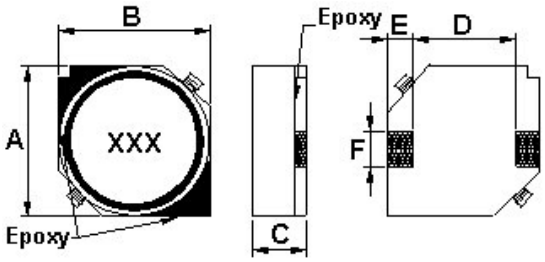
SLF 1045/ 1055



Dimension in mm

TYPE	A	B	C	D	E	F
SLF 1045	10.1 ± 0.3	10.1 ± 0.3	4.5 ± 0.3	6.0 TYP	3.0 TYP	2 TYP
SLF 1055	10.1 ± 0.3	10.1 ± 0.3	5.5 ± 0.3	6.0 TYP	3.0 TYP	2 TYP

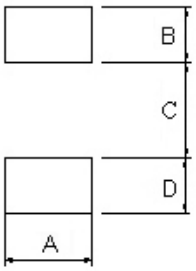
SLF 0755/ 1255/ 1265/ 1275



Dimension in mm

TYPE	A	B	C	D	E	F
SLF 0755	7.0 ± 0.2	7.0 ± 0.2	5.5 ± 0.3	4.9 TYP	0.9 TYP	2.0 TYP
SLF 1255	12.5 ± 0.3	12.5 ± 0.3	5.5 ± 0.3	8.6 TYP	2.0 TYP	3.0 TYP
SLF 1265	12.5 ± 0.3	12.5 ± 0.3	6.5 ± 0.35	8.6 TYP	2.0 TYP	3.0 TYP
SLF 1275	12.5 ± 0.3	12.5 ± 0.3	7.5 ± 0.35	8.6 TYP	2.0 TYP	3.0 TYP

Recommended Pattern



Dimension in mm

TYPE	A	B	C	D
SLF 0628	2.2	1.5	4.0	1.5
SLF 0728	2.2	1.5	4.9	1.5
SLF 0730	2.2	1.5	4.9	1.5
SLF 0732	2.2	1.5	4.9	1.5
SLF 0745	2.2	1.5	4.9	1.5
SLF 0755	2.2	1.5	4.9	1.5
SLF 1045	3.2	2.5	5.6	2.5
SLF 1045	3.2	2.5	5.6	2.5
SLF 1105	3.2	2.5	5.6	2.5
SLF 1255	3.2	2.5	8.6	2.5
SLF 1265	3.2	2.5	8.6	2.5
SLF 1275	3.2	2.5	8.6	2.5

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	DC Resistance (Ω±20%)	Isat (A)	Itemp (A) Max
SLF0628T-4R7M-N	4.7	20	1	0.0284	1.6	2.5
SLF0628T-6R8M-N	6.8	20	1	0.0354	1.5	2.2
SLF0628T-100M-N	10	20	1	0.0532	1.3	1.8
SLF0628T-150M-N	15	20	1	0.0745	1.0	1.4
SLF0628T-220M-N	22	20	1	0.104	0.77	1.3
SLF0628T-330M-N	33	20	1	0.148	0.69	1.1
SLF0628T-470M-N	47	20	1	0.21	0.59	0.92
SLF0628T-680M-N	68	20	1	0.29	0.50	0.78
SLF0628T-101M-N	100	20	1	0.43	0.42	0.64

- Tolerance: M = ±20%
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 30%
- Itemp current: Value obtained when current flows and the temperature has risen to 25℃
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency:1KHz/0.5V)
- RDC: CH502BC

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	DC Resistance (Ω±20%)	Isat (A)
SLF0728T-3R3M-N	3.3	20	1	0.037	1.6
SLF0728T-4R7M-N	4.7	20	1	0.045	1.5
SLF0728T-6R8M-N	6.8	20	1	0.059	1.3
SLF0728T-100M-N	10	20	1	0.083	1.1
SLF0728T-150M-N	15	20	1	0.13	0.88
SLF0728T-220M-N	22	20	1	0.18	0.75
SLF0728T-330M-N	33	20	1	0.24	0.65
SLF0728T-470M-N	47	20	1	0.34	0.54

- Tolerance: M = ±20%
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 10%
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency:1KHz/0.5V)
- RDC: CH502BC

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	DC Resistance (Ω±20%)	Isat (A)
SLF0730T-3R3M-N	3.3	20	1	0.023	1.8
SLF0730T-4R7M-N	4.7	20	1	0.036	1.6
SLF0730T-6R8M-N	6.8	20	1	0.041	1.5
SLF0730T-100M-N	10	20	1	0.060	1.3
SLF0730T-150M-N	15	20	1	0.084	1
SLF0730T-220M-N	22	20	1	0.15	0.86
SLF0730T-330M-N	33	20	1	0.16	0.65
SLF0730T-470M-N	47	20	1	0.24	0.57
SLF0730T-680M-N	68	20	1	0.31	0.49
SLF0730T-101M-N	100	20	1	0.45	0.35

- Tolerance: M = ±20%
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 10%
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency:1KHz/0.5V)
- RDC: CH502BC

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	DC Resistance (Ω±20%)	Isat (A)
SLF0732T-2R2M-N	2.2	20	1	0.018	2.1
SLF0732T-3R3M-N	3.3	20	1	0.023	1.9
SLF0732T-4R7M-N	4.7	20	1	0.036	1.7
SLF0732T-6R8M-N	6.8	20	1	0.041	1.6
SLF0732T-100M-N	10	20	1	0.053	1.4
SLF0732T-150M-N	15	20	1	0.075	1.1
SLF0732T-220M-N	22	20	1	0.11	0.96
SLF0732T-330M-N	33	20	1	0.16	0.75
SLF0732T-470M-N	47	20	1	0.24	0.67
SLF0732T-680M-N	68	20	1	0.31	0.59
SLF0732T-101M-N	100	20	1	0.45	0.45
SLF0732T-151M-N	150	20	1	0.65	0.37
SLF0732T-221M-N	220	20	1	1.05	0.29
SLF0732T-331M-N	330	20	1	1.67	0.22
SLF0732T-471M-N	470	20	1	2.05	0.2
SLF0732T-681M-N	680	20	1	3.15	0.16
SLF0732T-102M-N	1000	20	1	4.78	0.13

- Tolerance: M = ±20%
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 10%
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency:1KHz/0.5V)
- RDC:CH502BC

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	DC Resistance (Ω±20%)	Isat (A)	Itemp (A) Max
SLF0745T-3R3M-N	3.3	20	1	0.02	2.5	2.3
SLF0745T-4R7M-N	4.7	20	1	0.03	2	2.1
SLF0745T-6R8M-N	6.8	20	1	0.039	1.7	1.74
SLF0745T-100M-N	10	20	1	0.036	1.3	1.78
SLF0745T-150M-N	15	20	1	0.052	1.1	1.53
SLF0745T-220M-N	22	20	1	0.061	0.9	1.34
SLF0745T-330M-N	33	20	1	0.096	0.82	1.09
SLF0745T-470M-N	47	20	1	0.125	0.75	0.92
SLF0745T-680M-N	68	20	1	0.175	0.6	0.77
SLF0745T-101M-N	100	20	1	0.25	0.5	0.65
SLF0745T-151M-N	150	20	1	0.34	0.4	0.55
SLF0745T-221M-N	220	20	1	0.52	0.33	0.45
SLF0745T-331M-N	330	20	1	0.74	0.25	0.37
SLF0745T-471M-N	470	20	1	1.05	0.22	0.31
SLF0745T-681M-N	680	20	1	1.48	0.2	0.27
SLF0745T-102M-N	1000	20	1	2.28	0.14	0.25

- Tolerance: M = ±20%
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 10%
- Itemp current : Value obtained when current flows and the temperature has risen to 20℃
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency: 1KHz/0.5V)
- RDC: CH502BC

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	DC Resistance (Ω)	Isat (A)	Itemp (A) Max
SLF0755T-1R5T-N	1.5	30	100	0.0174±30%	6.2	4.0
SLF0755T-2R2T-N	2.2	30	100	0.0217±30%	5.3	3.5
SLF0755T-3R3T-N	3.3	30	100	0.0240±30%	4.3	3.3
SLF0755T-4R7T-N	4.7	30	100	0.0280±30%	3.6	3.1
SLF0755T-6R8T-N	6.8	30	100	0.0340±30%	3.0	2.8
SLF0755T-100M-N	10	20	100	0.0391±20%	2.6	2.5
SLF0755T-150M-N	15	20	100	0.0508±20%	2.1	2.2
SLF0755T-220M-N	22	20	100	0.0643±20%	1.7	2.0
SLF0755T-470M-N	47	20	100	0.1550±20%	0.8	1.0

- Tolerance: T = ±30% , M = ±20% ,
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 10%
- Itemp current : Value obtained when current flows and the temperature has risen to 30℃
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency: 100KHz/1V)
- RDC: CH502BC

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	DC Resistance (Ω±20%)	Isat (A)	Itemp (A) Max
SLF1045T-100M-N	10	20	1	0.0364	3	2.5
SLF1045T-150M-N	15	20	1	0.0472	2.4	2.2
SLF1045T-220M-N	22	20	1	0.0591	2.1	1.9
SLF1045T-330M-N	33	20	1	0.0815	1.6	1.7
SLF1045T-470M-N	47	20	1	0.1	1.4	1.5
SLF1045T-680M-N	68	20	1	0.14	1.2	1.3
SLF1045T-101M-N	100	20	1	0.2	1	1.1
SLF1045T-151M-N	150	20	1	0.35	0.79	0.81
SLF1045T-221M-N	220	20	1	0.47	0.65	0.7
SLF1045T-331M-N	330	20	1	0.68	0.54	0.58
SLF1045T-471M-N	470	20	1	1.03	0.47	0.47
SLF1045T-681M-N	680	20	1	1.6	0.38	0.38
SLF1045T-102M-N	1000	20	1	2.8	0.32	0.29
SLF1045T-152M-N	1500	20	1	3.4	0.22	0.26

- Tolerance: M = ±20%
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 10%
- Itemp current: Value obtained when current flows and the temperature has risen to 30℃
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency:1KHz/0.5V)
- RDC: CH502BC

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	DC Resistance (mΩ) Max	Isat (A)
SLF1055T-100M-N	10	20	1	40	3.5
SLF1055T-330M-N	33	20	1	85	2.1

- Tolerance: M = ±20%
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 15%
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency:1KHz/0.5V)
- RDC:CH502BC digital

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	DC Resistance (Ω±20%)	Isat (A)	Itemp (A) Max
SLF1255T-6R0M-N	6	20	1	0.0164	3.6	4.9
SLF1255T-100M-N	10	20	1	0.0215	3.4	4.3
SLF1255T-150M-N	15	20	1	0.0259	2.8	3.9
SLF1255T-220M-N	22	20	1	0.0338	2.3	3.4
SLF1255T-330M-N	33	20	1	0.0415	1.9	3.1
SLF1255T-470M-N	47	20	1	0.0618	1.6	2.5
SLF1255T-680M-N	68	20	1	0.0832	1.3	2.2
SLF1255T-101M-N	100	20	1	0.117	1.1	1.8
SLF1255T-151M-N	150	20	1	0.19	0.88	1.4
SLF1255T-221M-N	220	20	1	0.27	0.72	1.2
SLF1255T-331M-N	330	20	1	0.41	0.59	1
SLF1255T-471M-N	470	20	1	0.52	0.49	0.88
SLF1255T-681M-N	680	20	1	0.76	0.43	0.73
SLF1255T-102M-N	1000	20	1	1.12	0.34	0.6
SLF1255T-152M-N	1500	20	1	1.73	0.29	0.48

- Tolerance: M = ±20%
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 10%
- Itemp current: Value obtained when current flows and the temperature has risen to 30℃
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency: 1KHz/0.5V)
- RDC:CH502BC

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	DC Resistance (Ω±20%)	Isat (A)	Itemp (A) Max
SLF1265T-2R0T-N	2	30	1	0.0117	10	6.2
SLF1265T-4R2T-N	4.2	30	1	0.015	7.3	5.5
SLF1265T-7R0T-N	7	30	1	0.0177	5.7	5
SLF1265T-100M-N	10	20	1	0.0202	5	4.8
SLF1265T-150M-N	15	20	1	0.0237	4.2	4.4
SLF1265T-220M-N	22	20	1	0.0316	3.5	3.8
SLF1265T-330M-N	33	20	1	0.0406	2.8	3.4
SLF1265T-470M-N	47	20	1	0.0578	2.4	2.8
SLF1265T-680M-N	68	20	1	0.0787	2	2.4
SLF1265T-101M-N	100	20	1	0.123	1.6	1.9
SLF1265T-221M-N	220	20	1	0.273	1	1.2

- Tolerance: M = ±20%
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 10%
- Itemp current: Value obtained when current flows and the temperature has risen to 40℃
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency: 1KHz/0.5V)
- RDC:CH502BC

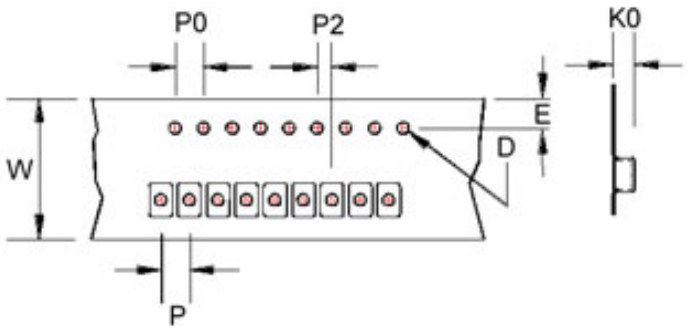
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	DC Resistance (Ω±20%)	Isat (A)	Itemp (A) Max
SLF1275T-1R2T-N	1.2	30	1	0.0069	13	8.2
SLF1275T-2R7T-N	2.7	30	1	0.0094	10	7
SLF1275T-3R9T-N	3.9	30	1	0.0104	9	6.7
SLF1275T-5R6T-N	5.6	30	1	0.0116	7.8	6.3
SLF1275T-6R8T-N	6.8	30	1	0.0131	7.2	5.9
SLF1275T-100M-N	10	20	1	0.0156	5.5	5.4
SLF1275T-150M-N	15	20	1	0.0184	4.7	5
SLF1275T-220M-N	22	20	1	0.0263	4	4
SLF1275T-330M-N	33	20	1	0.0395	3.2	3.4
SLF1275T-470M-N	47	20	1	0.0528	2.7	3
SLF1275T-680M-N	68	20	1	0.0778	2	2.4
SLF1275T-101M-N	100	20	1	0.1250	1.9	1.9
SLF1275T-151M-N	150	20	1	0.1750	1.5	1.6
SLF1275T-221M-N	220	20	1	0.2580	1.3	1.3

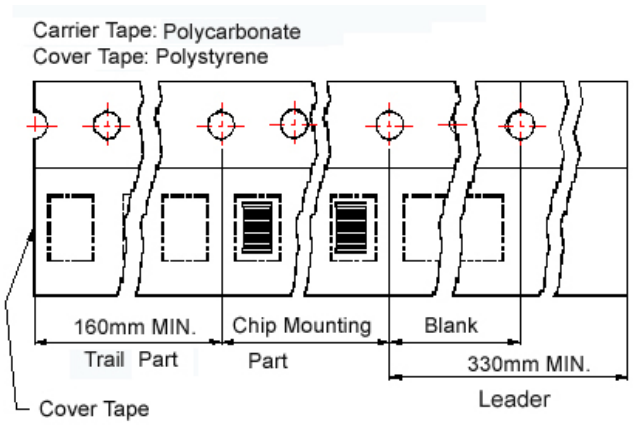
- Tolerance: M = ±20%
- Isat: Value obtained when DC current flows and the initial value of inductance has fallen by 10%
- Itemp current: Value obtained when current flows and the temperature has risen to 40℃
- Test equipment Inductance: HP4284A LF impedance analyzer or equivalent (Test frequency:1KHz/0.5V)
- RDC:CH502BC .

Packaging Specifications

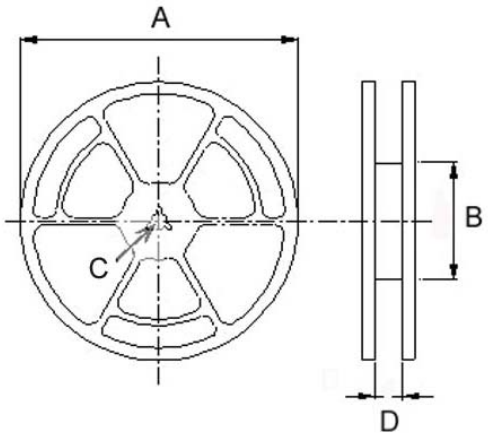
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
SLF 0628	3.4	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
SLF 0728	3.2	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
SLF 0730	3.5	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
SLF 0732	3.5	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
SLF 0745	4.8	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
SLF 0755	5.7	1.55	1.75	16	12	4	2	330	100	13	17.4	900
SLF 1045	5.0	1.55	1.75	24	16	4	2	330	100	13	24.4	500
SLF 1055	5.0	1.55	1.75	24	16	4	2	330	100	13	24.4	500
SLF 1255	6.0	1.55	1.75	24	16	4	2	330	100	13	24.4	500
SLF 1265	7.0	1.55	1.75	24	16	4	2	330	100	13	24.4	500
SLF 1275	8.2	1.55	1.75	24	16	4	2	330	100	13	24.4	350

SDT Series

SDT Series is the ultimate cost effective and miniature power inductors. They are constructed of materials specially developed for surface mount applications to ensure the best possible reliability and ease of using and handling. Because of their “swinging” inductance vs. current characteristics, the SSL0402 Series supports used as ultra high inductance at zero or low current.

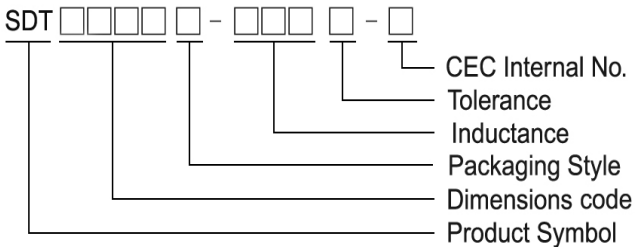
Features

- RoHS compliant
- High inductance shielded power inductors
- Functions equally well in filter and smoothing circuit applications

Applications

- Board mounted DC-DC converters
- Miniature power supplies and voltage multiplying circuits

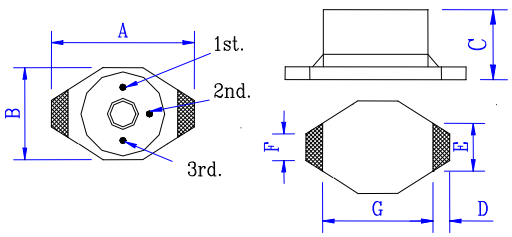
Product Identification



- Packaging: T：Tape and Reel

Shape and Dimensions

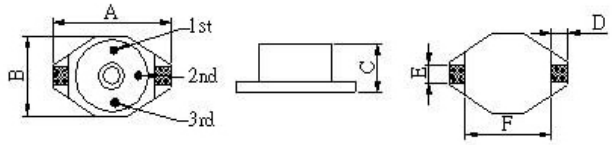
SDT 0402



Dimensions in mm

A	B	C	D	E	F	G
6.60^{+0}	4.54^{+0}	2.92^{+0}	1.02	3.05	1.27	4.32

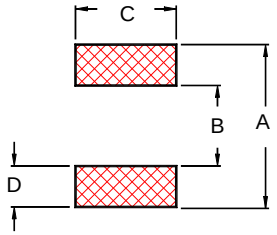
SDT 0804



Dimensions in mm

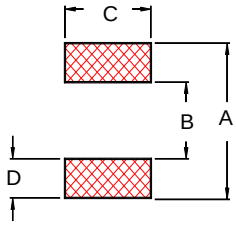
A	B	C	D	E	F
12.95^{+0}	9.4^{+0}	5.08^{+0}	2.54	2.54	7.62

Recommended Pattern



Dimensions in mm

A	B	C	D
6.86	4.06	3.56	1.40



Dimensions in mm

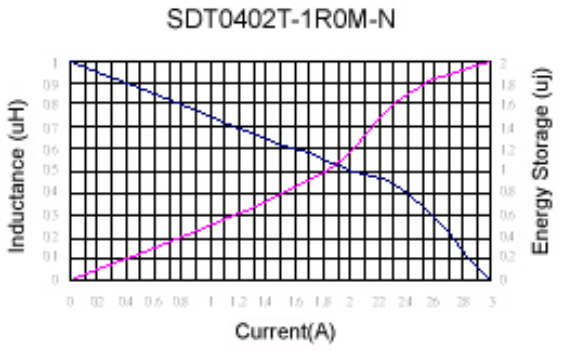
A	B	C	D
13.21	7.37	2.79	2.92

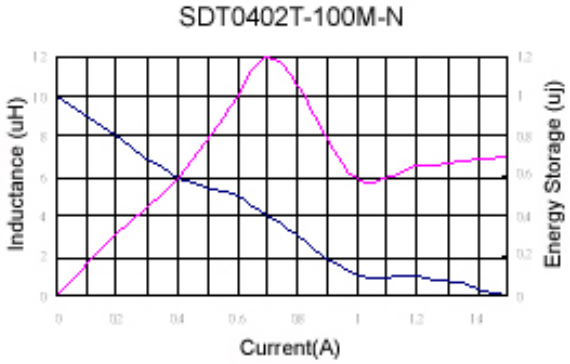
Electrical Characteristics

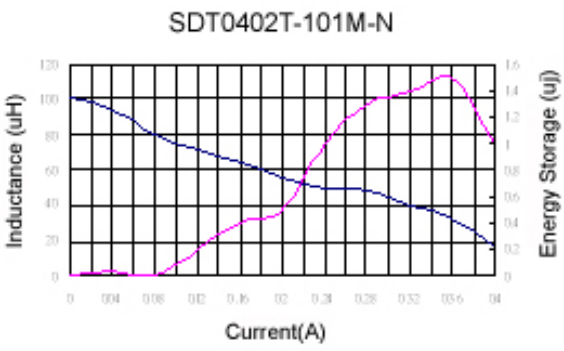
Specifications				Operating Parameters				
Part Number	Inductance (μH)	Tolerance (±%)	DC Resistance (Ω) Max	Self Resonant Frequency (MHz) Typ.	Inductance Rating (μH)	Current Rating (A)	Energy Storage (μ Joules) Max	Switching Frequency Max
SDT0402T-1R0M-N	1.0	20	0.045	157	0.60	2.0	1.8	1 MHz
SDT0402T-1R5M-N	1.5	20	0.050	108	0.80	1.9	1.8	1 MHz
SDT0402T-2R2M-N	2.2	20	0.060	92	0.90	1.5	1.8	1 MHz
SDT0402T-3R3M-N	3.3	20	0.070	69	1.5	1.2	1.4	1 MHz
SDT0402T-4R7M-N	4.7	20	0.080	59	2.0	1.2	1.6	1 MHz
SDT0402T-6R8M-N	6.8	20	0.085	51	3.0	1.0	1.9	1 MHz
SDT0402T-100M-N	10	20	0.095	33	5.0	0.7	1.2	1 MHz
SDT0402T-150M-N	15	20	0.135	26	6.0	0.6	1.1	1 MHz
SDT0402T-220M-N	22	20	0.160	20	10	0.5	1.2	1 MHz
SDT0402T-330M-N	33	20	0.275	17	12	0.45	1.5	1 MHz
SDT0402T-470M-N	47	20	0.340	12	20	0.34	1.3	1 MHz
SDT0402T-680M-N	68	20	0.575	11	30	0.29	1.4	1 MHz
SDT0402T-101M-N	100	20	1.100	9.4	40	0.24	1.5	1 MHz
SDT0402T-151M-N	150	20	1.400	6.7	60	0.20	1.4	500 KHz
SDT0402T-221M-N	220	20	2.250	6.1	90	0.17	1.6	500 KHz
SDT0402T-331M-N	330	20	2.900	4.7	100	0.16	1.4	500 KHz
SDT0402T-471M-N	470	20	3.600	3.85	150	0.14	1.5	500 KHz
SDT0402T-681M-N	680	20	4.550	3.1	200	0.12	1.4	500 KHz
SDT0402T-102M-N	1000	20	8.100	2.3	400	0.08	1.4	500 KHz

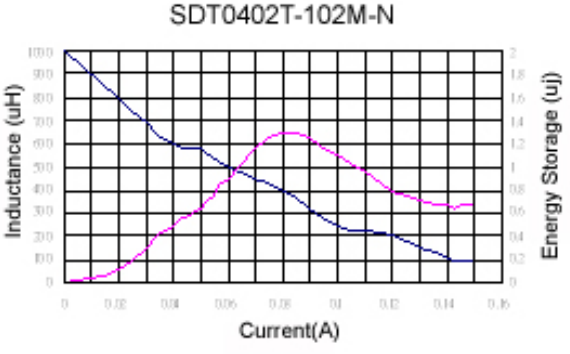
- Inductance tested at 100 KHz,
- Measured at the rated current. Refer to curves below for more detail.
- Average maximum allowable current. SDT Series inductors are designed for current spikes as high as 2X the current rating
- Tolerance: M = ±20%
- Operating temperature range －４０℃～１２５℃ (Including self - temperature rise)

Typical Inductance Energy Storage VS. Current









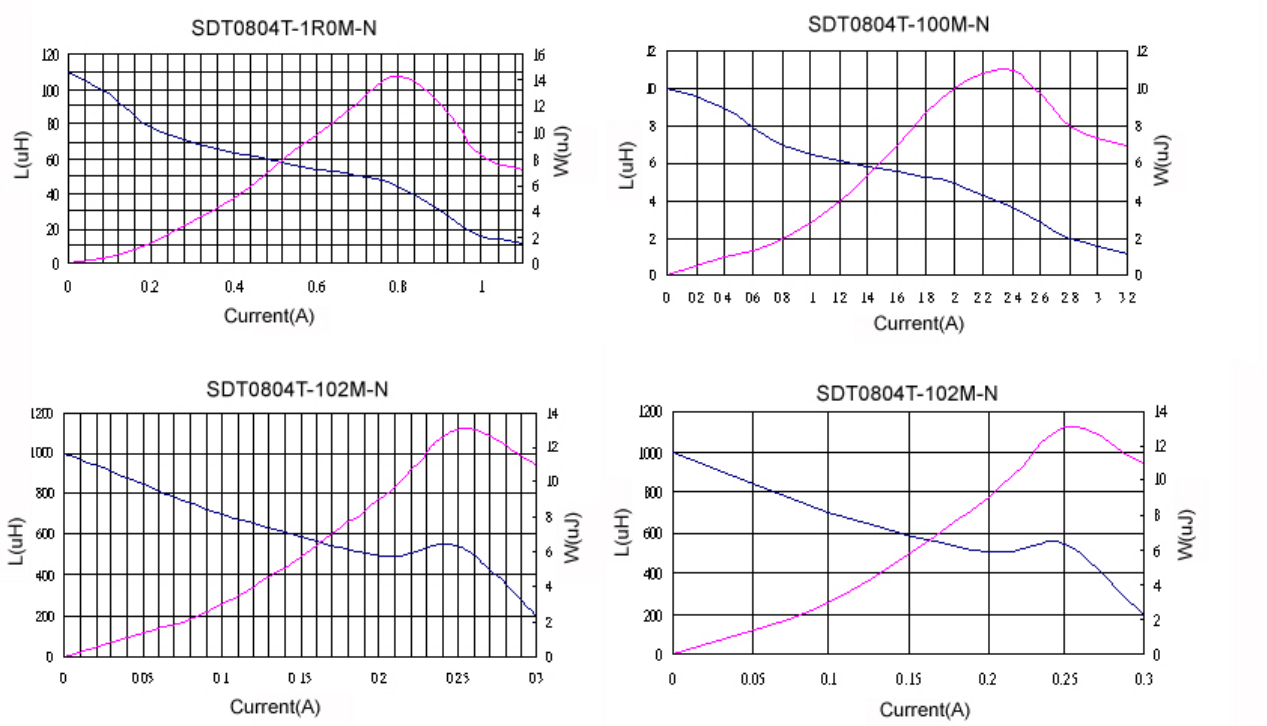
CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Specifications				Operating Parameters				
Part Number	Inductance (µH)	Tolerance (±%)	DC Resistance (Ω) Max	Self Resonant Frequency (MHz) Typ.	Inductance Rating (µH)	Current Rating (A)	Energy Storage (µ Joules) Max	Switching Frequency Max
SDT0804T-1R0M-N	1.0	20	0.025	60	0.50	5.0	9	1 MHz
SDT0804T-1R5M-N	1.5	20	0.030	55	0.70	5.0	12	1 MHz
SDT0804T-2R2M-N	2.2	20	0.035	55	1.00	5.0	15	1 MHz
SDT0804T-3R3M-N	3.3	20	0.040	50	1.50	5.0	16	1 MHz
SDT0804T-4R7M-N	4.7	20	0.045	45	2.00	3.0	10	1 MHz
SDT0804T-6R8M-N	6.8	20	0.050	40	4.00	2.5	14	1 MHz
SDT0804T-100M-N	10	20	0.055	35	5.00	2.0	11	1 MHz
SDT0804T-150M-N	15	20	0.060	25	6.00	1.8	12	1 MHz
SDT0804T-220M-N	22	20	0.084	22	10	1.5	11	1 MHz
SDT0804T-330M-N	33	20	0.090	18	12	1.3	13	1 MHz
SDT0804T-470M-N	47	20	0.11	16	27	1.0	13	1 MHz
SDT0804T-680M-N	68	20	0.15	12	40	0.90	17	1 MHz
SDT0804T-101M-N	100	20	0.29	9	50	0.80	15	1 MHz
SDT0804T-151M-N	150	20	0.36	8	80	0.60	15	500 KHz
SDT0804T-221M-N	220	20	0.39	6	90	0.50	10	500 KHz
SDT0804T-331M-N	330	20	0.73	5	150	0.40	13	500 KHz
SDT0804T-471M-N	470	20	0.88	4	200	0.35	13	500 KHz
SDT0804T-681M-N	680	20	1.15	3	300	0.30	13	500 KHz
SDT0804T-102M-N	1000	20	1.45	2.5	420	0.25	13	500 KHz

- Inductance tested at 100 KHz,
- Measured at the rated current. Refer to curves below for more detail.
- Average maximum allowable current. SDT Series inductors are designed for current spikes as high as 2X the current rating
- Tolerance: M = ±20%
- Operating temperature range －４０℃～１２５℃ (Including self - temperature rise)

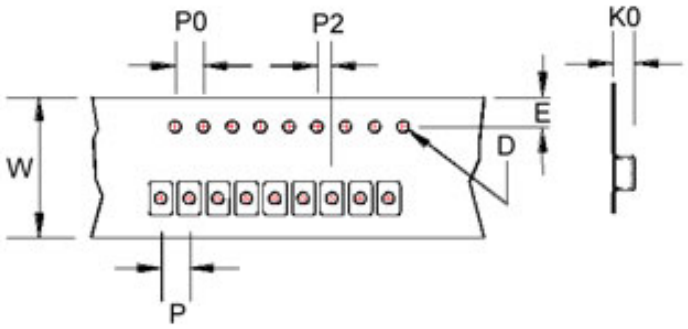
Typical Inductance Energy Storage VS. Current



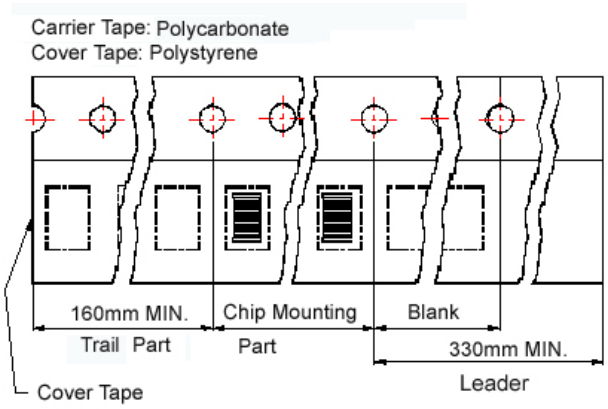
CHILISIN ELECTRONICS CORP.

Packaging Specifications

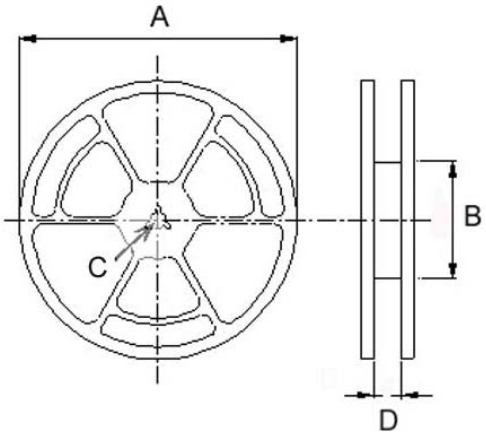
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity (PCS / REEL)	
	K0	D	E	W	P	P0	P2	A	B	C	D	178mm	330mm
SDT 0402	3.2	1.55	1.75	12	8	4	2	330 178	100 60	13	13.4 13.2	- 750	2500 -
SDT 0804	5.4	1.55	1.75	24	16	4	2	330	100	13	24.4	-	750

SCD Series

Various high power surface mountable type inductors provide superior high saturation. The magnetic shielding also protects against radiation.

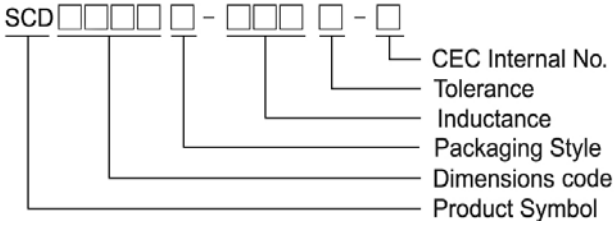
Features

- RoHS compliant
- High saturation open type wire wound power inductor
- Suitable for large currents
- Ideal for DC – DC converter applications
- Available on tape and reel for auto surface mounting

Applications

- Power supply for VTRs
- OA equipment
- LCD televisions
- Notebook PCs
- Portable communication devices
- DC / DC converters, etc

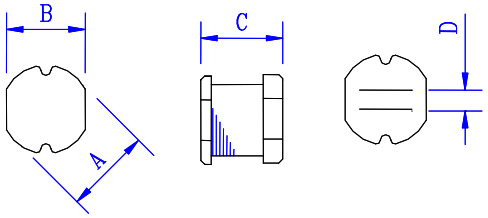
Product Identification



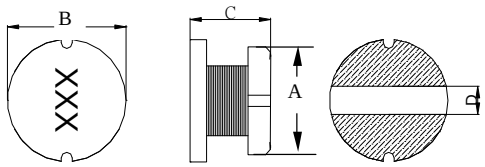
- Packaging: T：Tape and Reel

Shape and Dimensions

SCD 03011 ~ 1006



SCD 1307

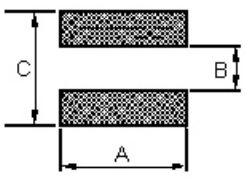


Dimensions in mm

TYPE	A	B	C	D
SCD 03011	3.5 ± 0.3	3.0 ± 0.3	1.1 ± 0.3	1.0 Typ.
SCD 03015	3.3 ± 0.3	3.0 ± 0.3	1.5 ± 0.3	1.0 Typ.
SCD 03021	3.3 ± 0.3	3.0 ± 0.3	2.1 ± 0.3	1.0 Typ.
SCD 0403	4.5 ± 0.3	4.0 ± 0.3	3.2 ± 0.3	1.2
SCD 0501	5.8 ± 0.3	5.2 ± 0.3	2.2^{+0}	2.0 Typ.
SCD 0502	5.8 ± 0.3	5.2 ± 0.3	2.5 ± 0.3	2.0 Typ.
SCD 0503	5.8 ± 0.3	5.2 ± 0.3	3 ± 0.3	2.0 Typ.
SCD 0504	5.8 ± 0.3	5.2 ± 0.3	4.5 ± 0.4	1.3
SCD 0506	5.8 ± 0.3	5.2 ± 0.3	6.0 ± 0.4	1.3
SCD 0703	7.8 ± 0.3	7.0 ± 0.3	3.5 ± 0.3	2.1
SCD 0705	7.8 ± 0.3	7.0 ± 0.3	5.0 ± 0.3	2.1
SCD 0706	7.8 ± 0.3	7.0 ± 0.3	6.0 ± 0.3	2.1
SCD 1004	10.0 ± 0.3	9.0 ± 0.3	4.0 ± 0.5	2.1
SCD 1005	10.0 ± 0.4	9.0 ± 0.4	5.4 ± 0.4	2.1
SCD 1006	10.0 ± 0.4	9.0 ± 0.4	6.5 ± 0.4	2.1
SCD 1307	13.0 ± 0.5	13.0 ± 0.5	7.0 ± 0.3	5 Typ.

Recommended Pattern

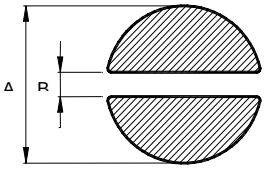
SCD 1307



Dimensions in mm

Dim	A	B	C
1307	14	4.5	14

SCD03011~SCD1006



PAD LAYOUT

Dimensions in mm

Dim	SCD 03011	SCD 03015	SCD 03021	SCD 0403	SCD 0501	SCD 0502	SCD 0503	SCD 0504	SCD 0506	SCD 0703	SCD 0705	SCD 0706	SCD 1004	SCD 1005	SCD 1006
A	4.5	4.5	4.5	5.5	6.8	6.8	6.8	6.8	6.8	8.8	8.8	8.8	11	11	11
B	1.5	1.0	1.0	1.2	2.0	2.0	2.0	1.3	1.3	2.1	2.1	2.1	2.1	2.1	2.1

CHILISIN ELECTRONICS CORP.

Standard Specifications

Stamp	Inductance (μH)	RDC (Ω) Max													
		SCD 03011	SCD 03015	SCD 03021	SCD 0403	SCD 0501	SCD 0502	SCD 0503	SCD 0504	SCD 0506	SCD 0703	SCD 0705	SCD 0706	SCD 1004	SCD 1005	SCD 1006
R15	0.15				0.0085											
1R0	1.0	0.084		0.07	0.033	0.034	0.03	0.03								
1R2	1.2							0.03								
1R4	1.4			0.09	0.038	0.048	0.04					0.02				
1R5	1.5	0.126						0.03								
1R8	1.8			0.11	0.042	0.062	0.05	0.03				0.02				
2R2	2.2	0.18	0.10±30%	0.13	0.047	0.064	0.06	0.03								
2R7	2.7			0.14	0.052	0.078	0.07	0.04				0.02				
3R3	3.3	0.27		0.17	0.058	0.097	0.08	0.05								
3R9	3.9	0.32		0.19	0.076	0.105	0.09	0.06				0.03				
4R7	4.7	0.33	0.15±30%	0.21	0.094	0.134	0.14	0.07				0.04			0.040	
5R6	5.6	0.48		0.22	0.101	0.170	0.15	0.08				0.04				
6R8	6.8	0.56		0.25	0.117	0.187	0.16	0.09				0.04			0.037	
8R2	8.2	0.62		0.28	0.132	0.225	0.17	0.10				0.05				
100	10	0.90	0.30±30%	0.32	0.182	0.255	0.18	0.12	0.10		0.08	0.07		0.05	0.060	
120	12	1.00		0.35	0.210	0.292	0.20	0.13	0.12		0.09	0.08		0.06	0.070	
150	15	1.10	0.58±30%	0.40	0.235	0.360	0.22	0.15	0.14		0.10	0.09	0.08	0.07	0.080	
180	18	1.24		0.48	0.338	0.430	0.25	0.22	0.15		0.11	0.10		0.08	0.090	
220	22	1.40	0.71±30%	0.58	0.378	0.492	0.35	0.22	0.18	0.165	0.13	0.11		0.09	0.100	
270	27	2.18		0.65	0.522	0.603	0.45	0.26	0.20		0.15	0.12		0.10	0.110	
330	33	2.54	1.10±30%	0.80	0.540	0.796	0.56	0.33	0.23		0.17	0.13	0.14	0.12	0.120	
390	39	2.80		0.90	0.587	0.897	0.69	0.42	0.32		0.22	0.16		0.15	0.140	
470	47	3.10	1.30±30%	1.19	0.844	1.020	0.72	0.50	0.37		0.25	0.18		0.17	0.170	
500	50	3.20		1.22		1.040										
560	56	3.50		1.27	0.937	1.164	0.84	0.55	0.42		0.28	0.24		0.20	0.190	
680	68	5.80	2.20±30%	1.73	1.117	1.220	0.90	0.65	0.46		0.33	0.28		0.22	0.220	
750	75	6.10		1.90		1.340										
820	82	6.60		1.99		1.570	1.20	0.80	0.60		0.41	0.37		0.30	0.25	
101	100		3.50±30%	2.52	2.000	1.800	1.30	0.90	0.70		0.48	0.43		0.34	0.35	
121	120			2.90	1.800	2.000	1.38	1.00	0.93		0.54	0.47		0.40	0.40	
151	150			3.36	2.800	2.80	1.81	1.30	1.10		0.75	0.64		0.54	0.47	
181	180			5.10	3.200	3.15	1.95	1.50	1.38		1.02	0.71		0.62	0.63	
221	220			5.80	4.000	4.40	3.00	2.00	1.57		1.20	0.96		0.72	0.73	
271	270			7.80		6.40	3.20	2.50	1.85		1.31	1.11		0.95	0.97	
301	300			8.10		6.75										
331	330			9.24	5.850	7.20	3.82	3.20	2.00		1.50	1.26		1.10	1.15	
391	390			10.14		8.40	4.68	3.50	2.60			1.77		1.24	1.30	
461	460			11.15		12.0										
471	470			11.48		12.4	5.10	4.20	3.00			1.96		1.53	1.48	
561	560			19.49		13.0	8.50	4.50	4.19					1.90	1.90	
681	680						10.0	6.50	4.44						2.25	
821	820						12.0	7.50	5.12						2.55	
102	1000						18.0	8.00	10.00							
122	1200															
152	1500															
602	6000															14
822	8200															50

Test Freq.(L): SCD03011: (100KHz/1V) SCD03015: (1MHz/1V)
SCD03021/0403/0501/0502/ 0503: 0.15 ~ 8.2μH(7.96MHz/1V), 10 ~ 82μH (2.52MHz/1V), 100 ~ 1000μH (1KHz/1V).
SCD0504/0506/0703/0705/0706/1004: 1.0 ~ 8.2μH(7.96MHz/1V), 10 ~ 82μH (2.52MHz/1V), 100 ~ 1000μH (1KHz/1V).
SCD1005/1006: 1.0 ~ 8.2μH(7.96MHz/1V), 10 ~ 82μH (2.52MHz/1V), 100 ~ 1000μH (1KHz/1V).

Test Instrument: L: Agilent/ E4980 or HP4284A (over 1MHz), HP4285A (under 1MHz)
DCR: CH502BC ; Rated D.C. Current: HP4284+42841A or WK3260B+WK3265B

Standard Specifications

Stamp	Inductance (μH)	Isat (A) Max														
		SCD 03011	SCD 03015	SCD 03021	SCD 0403	SCD 0501	SCD 0502	SCD 0503	SCD 0504	SCD 0506	SCD 0703	SCD 0705	SCD 0706	SCD 1004	SCD 1005	SCD 1006
R15	0.15				7.5											
1R0	1.0	1.80		2.080	3.80	4.00	4.50	4.50								
1R2	1.2							4.20								
1R4	1.4			1.860	3.30	3.60	4.00					3.70				
1R5	1.5	1.44						4.10								
1R8	1.8			1.800	2.91	3.00	3.30	3.70				3.70				
2R2	2.2	1.26	0.79	1.390	2.60	2.65	2.94	3.50								
2R7	2.7			1.320	2.43	2.20	2.50	3.20				3.70				
3R3	3.3	1.08		1.250	2.15	2.11	2.35	2.80								
3R9	3.9	1.00		1.200	1.98	2.00	2.20	2.60				3.70				
4R7	4.7	0.90	0.65	1.130	1.70	1.80	2.00	2.50				3.50			2.60	
5R6	5.6	0.76		0.910	1.60	1.60	1.80	2.40				3.30				
6R8	6.8	0.68		0.850	1.41	1.50	1.70	2.20				3.10			4.33	
8R2	8.2	0.63		0.820	1.26	1.30	1.40	2.00				2.70				
100	10	0.56	0.45	0.740	1.15	1.10	1.20	1.80	1.44		1.44	2.30		2.38	2.60	
120	12	0.52		0.640	1.05	1.05	1.18	1.75	1.40		1.39	2.00		2.13	2.45	
150	15	0.50	0.30	0.600	0.92	1.00	1.15	1.70	1.30		1.24	1.80	2.8	1.87	2.27	
180	18	0.46		0.540	0.84	0.95	1.10	1.60	1.23		1.12	1.60		1.73	2.15	
220	22	0.36	0.25	0.500	0.76	0.90	1.00	1.50	1.11	1.6	1.07	1.50		1.60	1.95	
270	27	0.30		0.430	0.71	0.77	0.86	1.40	0.97		0.94	1.30		1.44	1.76	
330	33	0.28	0.20	0.400	0.64	0.68	0.76	1.10	0.88		0.85	1.20	2.3	1.26	1.50	
390	39	0.26		0.370	0.59	0.67	0.75	1.00	0.80		0.74	1.10		1.20	1.37	
470	47	0.25	0.17	0.360	0.54	0.66	0.73	0.90	0.72		0.68	1.10		1.10	1.28	
500	50	0.24		0.330		0.61										
560	56	0.23		0.310	0.50	0.50	0.55	0.85	0.68		0.64	0.94		1.01	1.17	
680	68	0.20	0.13	0.300	0.46	0.47	0.52	0.80	0.61		0.59	0.85		0.91	1.11	
750	75	0.18		0.290		0.46										
820	82	0.17		0.280		0.45	0.50	0.65	0.58		0.54	0.78		0.85	1.00	
101	100		0.10	0.250	0.40	0.36	0.40	0.60	0.52		0.51	0.72		0.74	0.97	
121	120			0.200	0.38	0.32	0.36	0.58	0.48		0.49	0.66		0.69	0.89	
151	150			0.190	0.30	0.270	0.30	0.43	0.40		0.40	0.58		0.61	0.78	
181	180			0.170	0.25	0.230	0.26	0.41	0.38		0.36	0.51		0.56	0.72	
221	220			0.160	0.15	0.220	0.25	0.38	0.35		0.31	0.49		0.53	0.66	
271	270			0.140		0.190	0.21	0.35	0.29		0.29	0.42		0.45	0.57	
301	300			0.135		0.180										
331	330			0.130	0.21	0.16	0.18	0.28	0.28		0.28	0.40		0.42	0.52	
391	390			0.120		0.150	0.16	0.26	0.26			0.36		0.38	0.48	
461	460			0.090		0.140										
471	470			0.084		0.135	0.15	0.20	0.12			0.34		0.35	0.42	
561	560			0.080		0.130	0.14	0.19	0.10					0.32	0.33	
681	680						0.13	0.18	0.08						0.28	
821	820						0.07	0.15	0.05						0.24	
102	1000						0.05	0.13	0.03							
122	1200															
152	1500															
602	6000															0.27
822	8200															0.20

Tolerance Of Inductors

- SCD03011 1.0 ~ 82μH ± 20%
- SCD03015 2.2 ~ 100μH ± 20%
- SCD03021 1.0 ~ 560μH ± 20%
- SCD0403 0.15 ~ 27μH ± 20% 33 ~ 100μH ±10%
- SCD0501 1.0 ~ 27μH ± 20% 33 ~ 560μH ±10%
- SCD0502 1.0 ~ 27μH ± 20% 33 ~ 1000μH ±10%
- SCD0503 1.0 ~ 27μH ± 20% 33 ~ 1000μH ±10%
- SCD0504 1.0~27μH±20% 33~47μH ±15% 56~1000μH±10%
- SCD0506 22μH ± 20%
- SCD0703 10 ~ 27μH ± 20% 33 ~ 330μH ±10%
- SCD0705 1.4 ~ 27μH ± 20% 33 ~ 470μH ±10%
- SCD0706 15μH ± 20% 33μH ±10%
- SCD1004 10 ~ 27μH ± 20% 33 ~ 560μH ±10%
- SCD1005 4.7 ~ 27μH ± 20% 33 ~ 820μH ±10%
- SCD1005 4.7 ~ 27uH ± 20% 33 ~820uH ± 10%
- SCD1006 6000μH ~8200μH±20%

Tolerance: K = ±10% , M = ±20%

※ This indicates the value of current when the inductance is 10% lower than its initial value at D.C superposition or D.C current when at △t = 40° whichever is lower

Electrical Characteristics

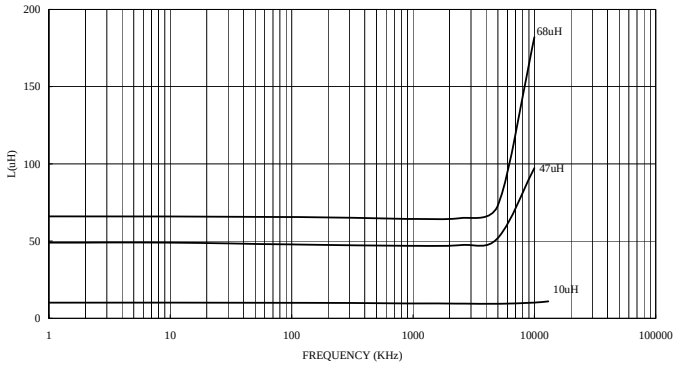
Part Number	Inductance (μH)	Tolerance (±%)	Q Ref	Q Frequency (MHz)	SRF (MHz) Typ.	DC Resistance (mΩ) Typ.	Irms (A) Max	Isat (A) Typ.
SCD1307T-1R5□-N	1.5	20	20	7.96 / 0.1V	65	5.0	9.50	20.0
SCD1307T-2R2□-N	2.2	20	22	7.96 / 0.1V	50	6.0	9.00	18.0
SCD1307T-2R7□-N	2.7	20	24	7.96 / 0.1V	40	8.0	8.20	16.0
SCD1307T-3R3□-N	3.3	20	26	7.96 / 0.1V	38	8.7	7.50	15.0
SCD1307T-4R7□-N	4.7	20	25	7.96 / 0.1V	36	10	7.00	13.0
SCD1307T-5R6□-N	5.6	20	24	7.96 / 0.1V	28	15	6.50	11.0
SCD1307T-6R8□-N	6.8	20	24	7.96 / 0.1V	26	17	6.00	10.5
SCD1307T-8R2□-N	8.2	20	24	7.96 / 0.1V	24	19	5.80	9.8
SCD1307T-100□-N	10	20	22	2.52 / 0.1V	22	21	5.60	9.2
SCD1307T-120□-N	12	20	25	2.52 / 0.1V	20	30	4.80	8.0
SCD1307T-150□-N	15	20	28	2.52 / 0.1V	17	34	4.50	7.5
SCD1307T-180□-N	18	20	28	2.52 / 0.1V	16	36	4.20	7.0
SCD1307T-220□-N	22	20	40	2.52 / 0.1V	15	47	3.60	6.5
SCD1307T-270□-N	27	20	35	2.52 / 0.1V	11	60	3.30	5.5
SCD1307T-330□-N	33	20 / 10	35	2.52 / 0.1V	10	65	3.10	5.0
SCD1307T-390□-N	39	20 / 10	28	2.52 / 0.1V	9.0	75	2.90	4.6
SCD1307T-470□-N	47	20 / 10	24	2.52 / 0.1V	7.5	82	2.70	4.2
SCD1307T-560□-N	56	20 / 10	22	2.52 / 0.1V	7.2	95	2.50	3.8
SCD1307T-680□-N	68	20 / 10	24	2.52 / 0.1V	7.0	120	2.30	3.5
SCD1307T-820□-N	82	20 / 10	18	2.52 / 0.1V	6.0	140	2.10	3.2
SCD1307T-101□-N	100	20 / 10	25	0.796 / 0.1V	5.8	180	1.90	3.0
SCD1307T-121□-N	120	20 / 10	20	0.796 / 0.1V	5.5	210	1.80	2.8
SCD1307T-151□-N	150	20 / 10	20	0.796 / 0.1V	4.5	250	1.60	2.6
SCD1307T-181□-N	180	20 / 10	18	0.796 / 0.1V	4.0	280	1.50	2.3
SCD1307T-221□-N	220	20 / 10	15	0.796 / 0.1V	3.8	360	1.30	2.1
SCD1307T-271□-N	270	20 / 10	15	0.796 / 0.1V	3.5	410	1.20	1.8
SCD1307T-331□-N	330	20 / 10	15	0.796 / 0.1V	3.2	520	1.10	1.6
SCD1307T-391□-N	390	20 / 10	12	0.796 / 0.1V	2.5	600	1.00	1.5
SCD1307T-471□-N	470	20 / 10	12	0.796 / 0.1V	2.2	720	0.90	1.4
SCD1307T-561□-N	560	20 / 10	10	0.796 / 0.1V	2.0	880	0.85	1.3
SCD1307T-681□-N	680	20 / 10	10	0.796 / 0.1V	1.6	1000	0.80	1.2
SCD1307T-821□-N	820	20 / 10	10	0.796 / 0.1V	1.5	1300	0.75	1.1
SCD1307T-102□-N	1000	20 / 10	10	0.252 / 0.1V	1.4	1600	0.65	1.0

- When ordering, please specify tolerance and packaging codes.
- Inductance tested at 0.1 Vrms, 100KHz.
- Tolerance: K = ±10% , M = ±20%
- Inductance drop = 10%. Typ. at Isat
- ΔT = 40℃ rise typ. at Irms
- Test Instrument: L / Q : Agilent/ E4980 or HP4284A (over 1MHz), HP4285A (under 1MHz)
  SRF: HP4286A
  RDC: CH502BC
  Isat: HP4284+42841A or WK3260B+WK3265B

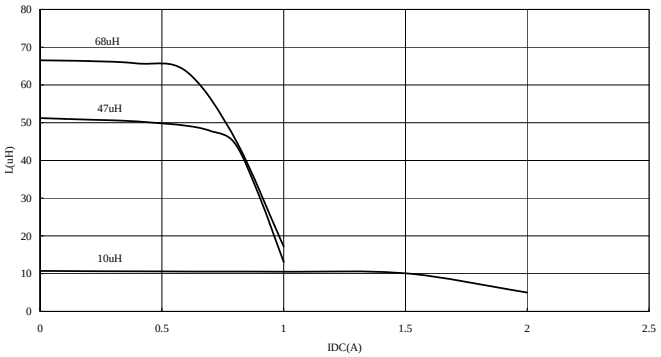
Test Instruments：HP4294A Impedance / Material Analyzer

SCD0403

INDUCTANCE vs. FREQUENCY CHARACTERISTICS

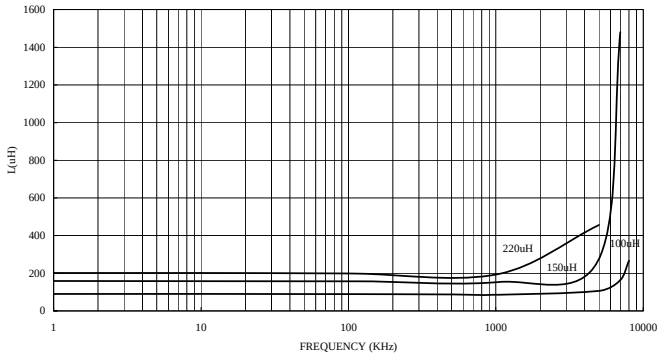


INDUCTANCE vs. IDC CHARACTERISTICS

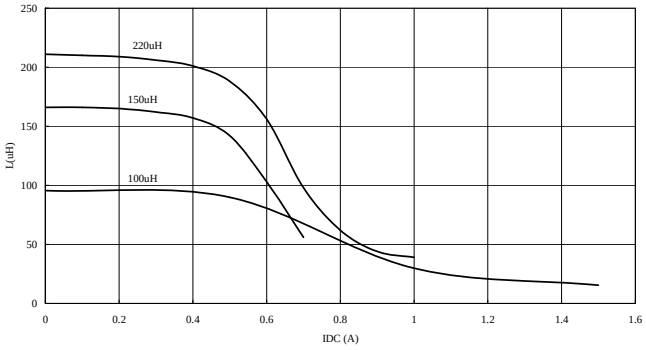


SCD0504

INDUCTANCE vs. FREQUENCY CHARACTERISTICS

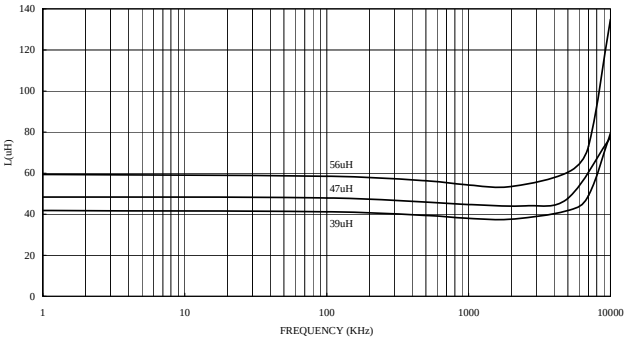


INDUCTANCE vs. IDC CHARACTERISTICS

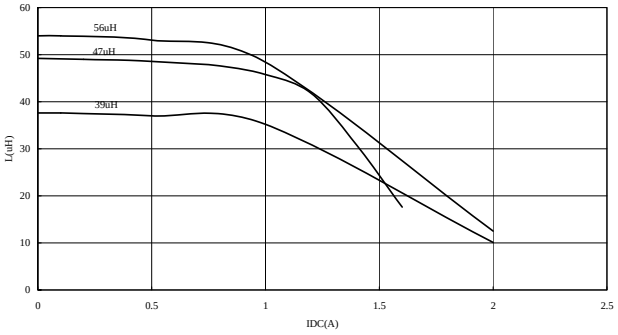


SCD0703

INDUCTANCE vs. FREQUENCY CHARACTERISTICS



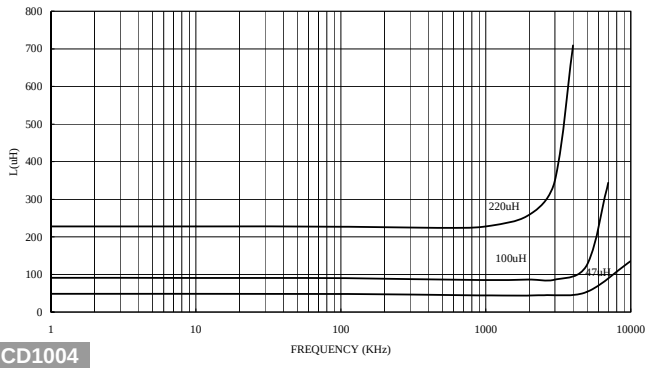
INDUCTANCE vs. IDC CHARACTERISTICS



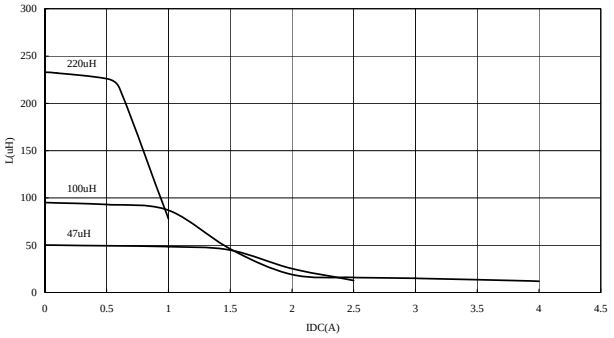
Test Instruments：HP4294A Impedance / Material Analyzer

SCD0705

INDUCTANCE vs. FREQUENCY CHARACTERISTICS

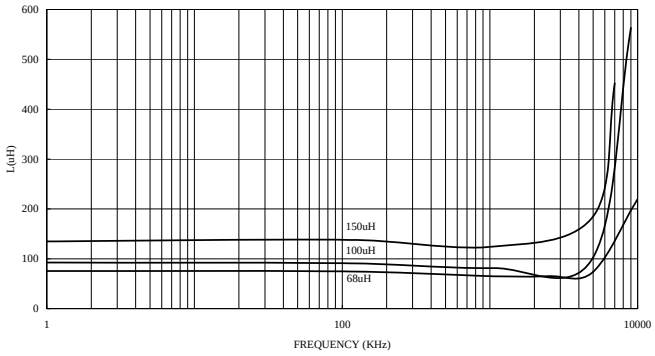


INDUCTANCE vs. IDC CHARACTERISTICS

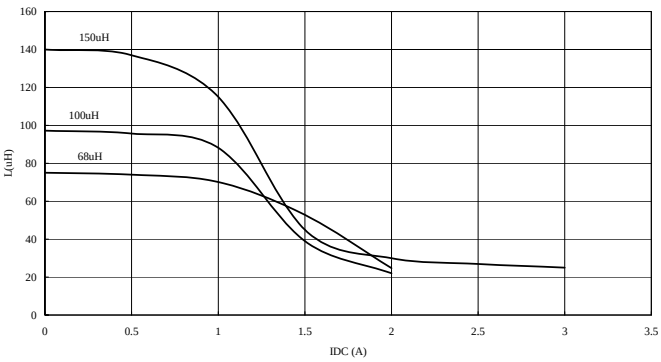


SCD1004

INDUCTANCE vs. FREQUENCY CHARACTERISTICS

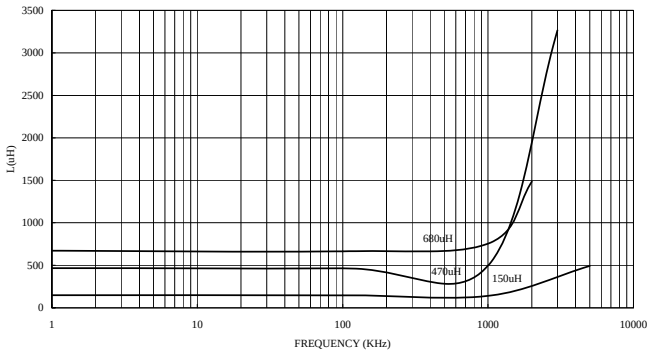


INDUCTANCE vs. IDC CHARACTERISTICS

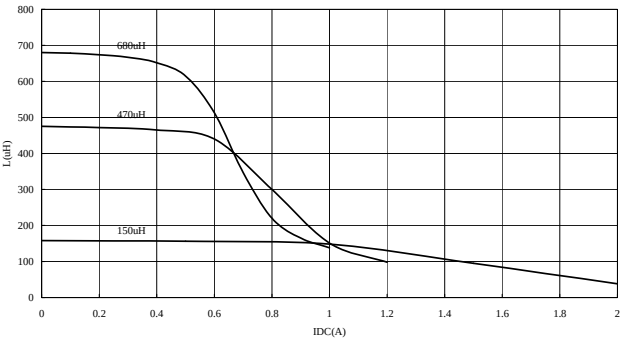


SCD1005

INDUCTANCE vs. FREQUENCY CHARACTERISTICS

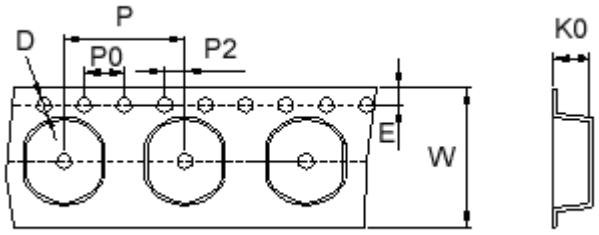


INDUCTANCE vs. IDC CHARACTERISTICS

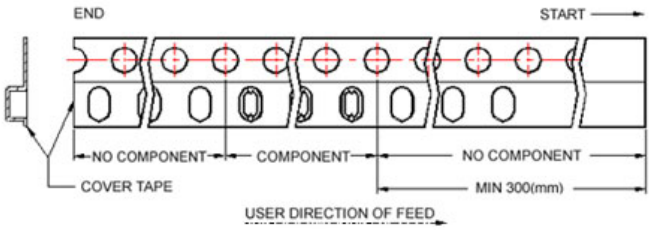


Packaging Specifications

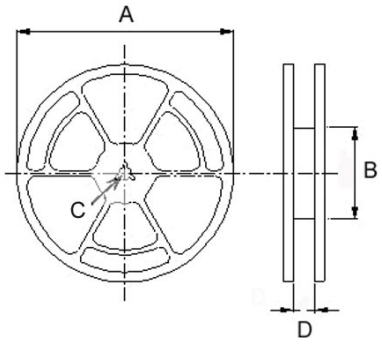
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
SCD03011	1.4	1.50	1.75	12	8	4	2	330	100	13	13.4	3000
SCD03015	1.80	1.55	1.75	12	8	4	2	330	100	13	13.4	3000
SCD03021	2.50	1.55	1.75	12	8	4	2	330	100	13	13.4	3000
SCD0403	3.55	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
SCD0501	2.35	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
SCD0502	3.30	1.50	1.75	16	8	4	2	330	100	13	17.4	2000
SCD0503	3.30	1.50	1.75	16	8	4	2	330	100	13	17.4	2000
SCD0504	4.8	1.55	1.75	16	8	4	2	330	100	13	17.4	1500
SCD0506	6.4	1.55	1.75	16	8	4	2	330	100	13	17.4	1500
SCD0703	3.8	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
SCD0705	5.2	1.55	1.75	16	12	4	2	330	100	13	17.4	700
SCD0706	6.4	1.55	1.75	16	12	4	2	330	100	13	17.4	700
SCD1004	4.5	1.55	1.75	24	12	4	2	330	100	13	24.4	700
SCD1005	5.8	1.55	1.75	24	12	4	2	330	100	13	24.4	700
SCD1006	7.0	1.55	1.75	24	12	4	2	330	100	13	24.4	500
SCD1307	7.4	1.55	1.75	24	16	4	2	330	100	13	24.4	500

SSL Series

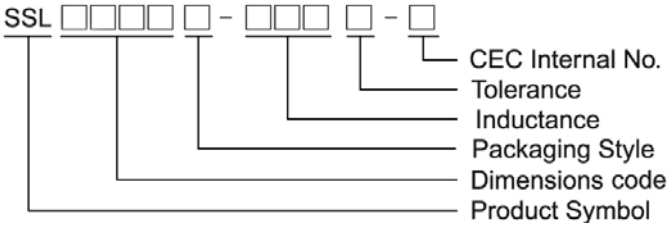
Features

- RoHS compliant
- High energy storage and very low resistance
- Smallest size and high performance

Applications

- Notebook computers, step-up and step-down converters
- Flash, memory programmers. etc

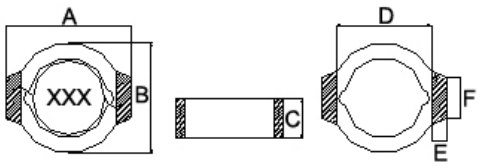
Product Identification



- Packaging: T：Tape and Reel , B：Bulk

Shape and Dimensions

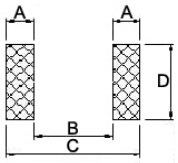
SSL 04LP



Dimensions in mm

TYPE	A	B	C	D	E	F
SSL04LP	6.5^{+0}	5.6^{+0}	1.0±0.2	4.8Ref	0.8Ref	2.0Ref

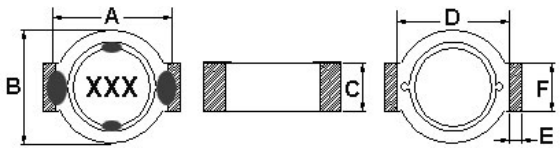
Recommended Pattern



Dimensions in mm

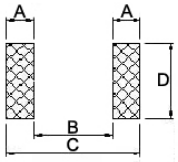
TYPE	A	B	C	D
SSL04LP	1.40	4.06	6.86	3.56

SSL0400



Dimensions in mm

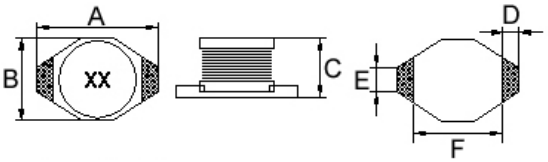
TYPE	A	B	C	D	E	F
SSL0400	6.5^{+0}	5.6^{+0}	2.0^{+0}	4.8Ref	0.8Ref	2.0Ref



Dimensions in mm

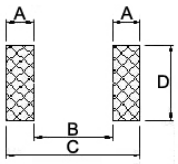
TYPE	A	B	C	D
SSL0400	1.40	4.06	6.86	3.56

SSL0402



Dimensions in mm

A	B	C	D	E	F
6.60^{+0}	4.45^{+0}	2.92^{+0}	1.02	1.27	4.32

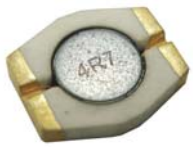


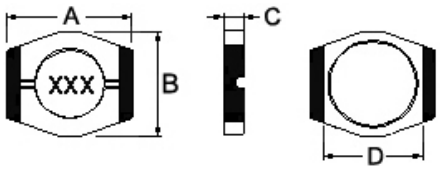
Dimensions in mm

TYPE	A	B	C	D
SSL0402	1.40	4.06	6.86	3.56

Shape and Dimensions

SSL 0614

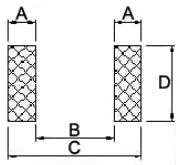




Dimensions in mm

A	B	C	D
9.14^{+0}.	7.87^{+0}	1.65^{+0}	7.24^{+0}

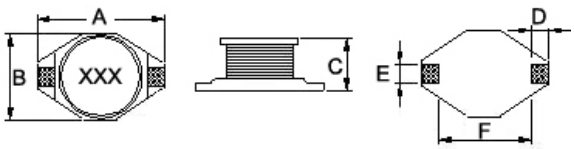
Recommended Pattern



Dimensions in mm

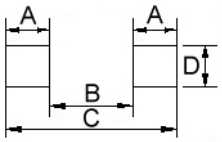
A	B	C	D
1.21	7.24	9.66	5.84

SSL0802/ 0804/ 0810



Dimensions in mm

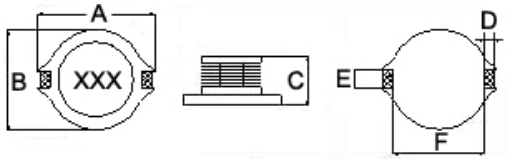
TYPE	A	B	C	D	E	F
SSL0802	12.95^{+0}	9.4^{+0}	3.0^{+0}	2.54	2.54	7.62
SSL0804	12.95^{+0}	9.40^{+0}	5.21^{+0}	2.54	2.54	7.62
SSL0810	12.95^{+0}	9.40^{+0}	11.43^{+0}	2.54	2.54	7.62



Dimension in mm

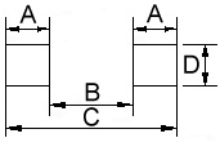
TYPE	A	B	C	D
SSL0802	2.92	7.37	13.21	2.79
SSL0804	2.92	7.37	13.21	2.79
SSL0810	2.92	7.37	13.21	2.79

SSL1306



Dimensions in mm

A	B	C	D	E	F
18.54^{+0}	15.24^{+0}	7.11^{+0}	2.54	2.54	12.7



Dimension in mm

TYPE	A	B	C	D
SSL1306	2.92	12.45	18.29	2.79

Electrical Characteristics

Part Number	Inductance (μH))	Tolerance (±%)	DC Resistance (Ω) Max	Isat (A)	Irms (A)
SSL04LP-1R2M-N	1.2	20	0.08	2.10	3.60
SSL04LP-1R5M-N	1.5	20	0.10	1.90	2.80
SSL04LP-2R2M-N	2.2	20	0.12	1.60	2.40
SSL04LP-3R3M-N	3.3	20	0.16	1.30	2.00
SSL04LP-4R7M-N	4.7	20	0.20	1.10	1.70
SSL04LP-6R8M-N	6.8	20	0.32	0.90	1.20
SSL04LP-100M-N	10	20	0.41	0.80	1.10
SSL04LP-150M-N	15	20	0.55	0.65	0.90
SSL04LP-220M-N	22	20	0.85	0.50	0.83
SSL04LP-330M-N	33	20	1.30	0.40	0.62
SSL04LP-470M-N	47	20	1.80	0.35	0.52
SSL04LP-680M-N	68	20	2.50	0.30	0.35
SSL04LP-101M-N	100	20	3.50	0.25	0.27
SSL04LP-151M-N	150	20	5.00	0.18	0.24
SSL04LP-221M-N	220	20	7.00	0.16	0.23
SSL04LP-331M-N	330	20	15.0	0.13	0.13

- Inductance tested at 100 KHz, 0.1 Vrms.
- Inductance drop = 10% typ. at Isat.
- ΔT = 40℃ rise typ at Irms.
- Tolerance: M = ±20%
- Operating temperature range －４０℃～１２５℃ (Including self - temperature rise)

Electrical Characteristics

Part Number	Inductance (μH))	Tolerance (±%)	DC Resistance (Ω) Max	Isat (A)	Irms (A)
SSL0400T-1R0M-N	1.0	20	0.05	2.50	2.3
SSL0400T-1R5M-N	1.5	20	0.06	2.20	2.1
SSL0400T-2R2M-N	2.2	20	0.07	1.80	1.7
SSL0400T-3R3M-N	3.3	20	0.12	1.40	1.3
SSL0400T-4R7M-N	4.7	20	0.15	1.20	1.1
SSL0400T-6R8M-N	6.8	20	0.20	1.10	1.0
SSL0400T-100M-N	10	20	0.30	1.00	0.90
SSL0400T-150M-N	15	20	0.40	0.80	0.70
SSL0400T-220M-N	22	20	0.54	0.60	0.50
SSL0400T-330M-N	33	20	0.74	0.50	0.45
SSL0400T-470M-N	47	20	1.1	0.45	0.40
SSL0400T-680M-N	68	20	1.6	0.35	0.35
SSL0400T-101M-N	100	20	2.3	0.30	0.30
SSL0400T-151M-N	150	20	3.5	0.25	0.25
SSL0400T-221M-N	220	20	5.7	0.20	0.18
SSL0400T-331M-N	330	20	8.2	0.16	0.16
SSL0400T-471M-N	470	20	10.8	0.14	0.12
SSL0400T-681M-N	680	20	17.2	0.12	0.10
SSL0400T-102M-N	1000	20	22.6	0.08	0.08

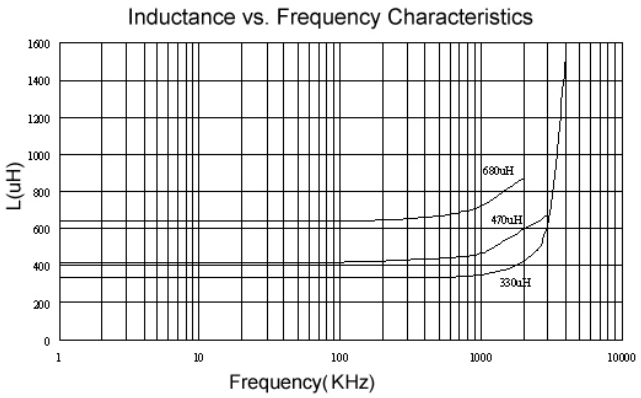
- Inductance tested at 100 KHz, 0.1 Vrms.
- Inductance drop = 10% typ. at Isat.
- ΔT = 40℃ rise typ at Irms.
- Tolerance: M = ±20%
- Operating temperature range－４０℃～１２５℃ (Including self - temperature rise)

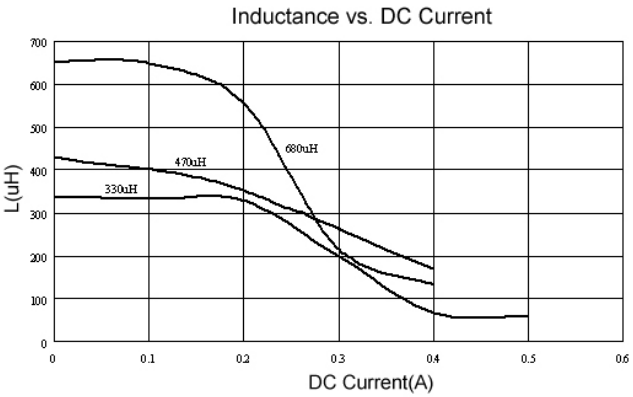
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	SRF (MHz) Typ	DC Resistance (Ω) Max	Isat (A)	Irms (A)
SSL0402T-1R0M-N	1.0	20	130	0.05	2.90	2.9
SSL0402T-1R5M-N	1.5	20	115	0.05	2.60	2.8
SSL0402T-2R2M-N	2.2	20	90	0.07	2.30	2.4
SSL0402T-3R3M-N	3.3	20	70	0.08	2.00	2.0
SSL0402T-4R7M-N	4.7	20	50	0.09	1.50	1.5
SSL0402T-6R8M-N	6.8	20	45	0.13	1.20	1.4
SSL0402T-100M-N	10	20	35	0.16	1.10	1.1
SSL0402T-150M-N	15	20	30	0.23	0.90	1.2
SSL0402T-220M-N	22	20	20	0.37	0.70	0.8
SSL0402T-330M-N	33	20	15	0.51	0.58	0.6
SSL0402T-470M-N	47	20	14	0.64	0.50	0.5
SSL0402T-680M-N	68	20	11	0.86	0.40	0.4
SSL0402T-101M-N	100	20	9	1.27	0.31	0.3
SSL0402T-151M-N	150	20	6	2.00	0.27	0.25
SSL0402T-221M-N	220	20	5.5	3.11	0.22	0.20
SSL0402T-331M-N	330	20	5	3.80	0.18	0.16
SSL0402T-471M-N	470	20	4	5.06	0.16	0.15
SSL0402T-681M-N	680	20	3	9.20	0.14	0.12
SSL0402T-102M-N	1000	20	2	13.8	0.10	0.07

- Inductance tested at 100 KHz, 0.1 Vrms.
- Inductance drop = 20% typ. at Isat.
- ΔT = 30℃ rise typ at Irms.
- Tolerance: M = ±20%
- Operating temperature range －４０℃～１２５℃ (Including self - temperature rise)

Test Instruments：





CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	D.C. Resistance (Ω) Max	Isat (A)
SSL0614T-4R7M-N	4.7	20	0.145	1.60
SSL0614T-6R8M-N	6.8	20	0.165	1.30
SSL0614T-100M-N	10	20	0.240	1.00
SSL0614T-150M-N	15	20	0.300	0.90
SSL0614T-220M-N	22	20	0.420	0.70
SSL0614T-330M-N	33	20	0.550	0.60
SSL0614T-470M-N	47	20	0.765	0.40
SSL0614T-680M-N	68	20	1.10	0.40
SSL0614T-101M-N	100	20	1.60	0.30
SSL0614T-151M-N	150	20	2.50	0.25
SSL0614T-221M-N	220	20	3.65	0.22
SSL0614T-331M-N	330	20	4.65	0.18
SSL0614T-471M-N	470	20	6.75	0.14
SSL0614T-681M-N	680	20	9.15	0.12
SSL0614T-102M-N	1000	20	14.2	0.10

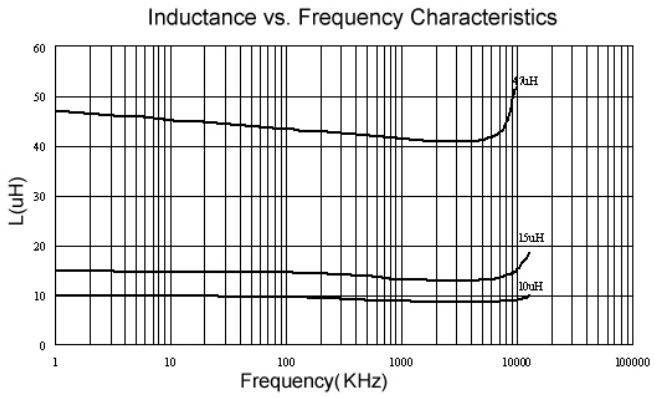
- Inductance tested at 100 KHz, 0.1 Vrms.I
- Inductance drop = 10% typ. at Isat
- Tolerance: M = ±20%

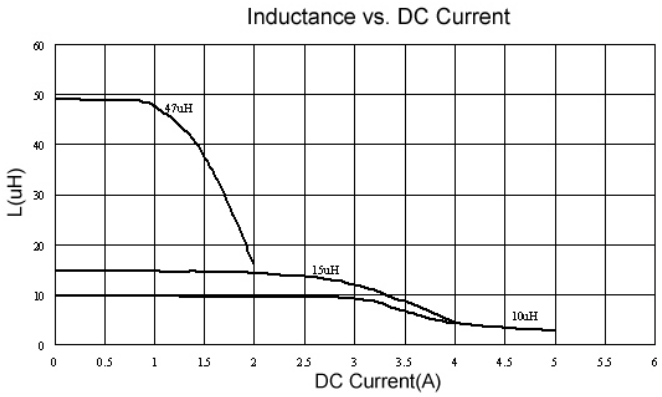
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	SRF (MHz) Typ.	DC Resistance (Ω) Max	Isat (A)	Irms (A)
SSL0802T-100M-N	10	20	35	0.09	2.4	2.0
SSL0802T-150M-N	15	20	33	0.12	2.0	1.5
SSL0802T-220M-N	22	20	25	0.19	1.6	1.3
SSL0802T-330M-N	33	20	19	0.25	1.4	1.1
SSL0802T-470M-N	47	20	14	0.32	1.0	0.8
SSL0802T-680M-N	68	20	12	0.55	0.9	0.7
SSL0802T-101M-N	100	20	10	0.70	0.7	0.6
SSL0802T-151M-N	150	20	8	1.00	0.6	0.5
SSL0802T-221M-N	220	20	6	1.60	0.5	0.4
SSL0802T-331M-N	330	20	5	2.20	0.4	0.3
SSL0802T-471M-N	470	20	4	3.30	0.3	0.2
SSL0802T-681M-N	680	20	3	4.40	0.2	0.1
SSL0802T-102M-N	1000	20	2.5	7.00	0.1	0.05

- Inductance tested at 100 KHz, 0.1 Vrms.
- Inductance drop = 20% typ. at Isat.
- ΔT = 30℃ rise typ. at Irms.
- Tolerance: M = ±20%
- Operating temperature range －４０℃～１２５℃ (Including self - temperature rise)

Test Instruments：





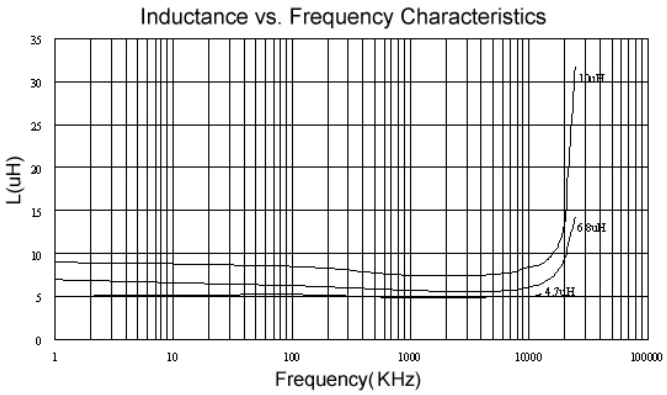
CHILISIN ELECTRONICS CORP.

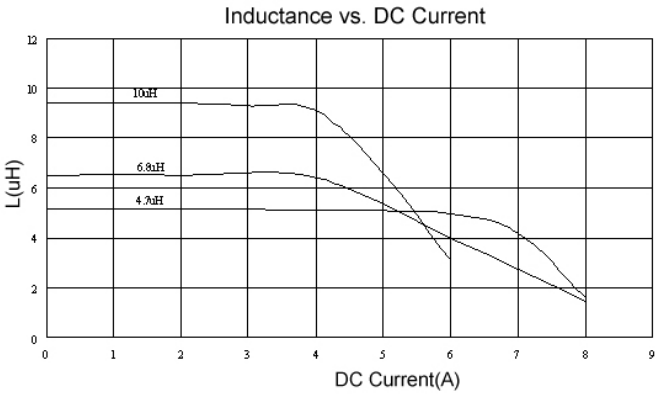
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	SRF (MHz) Typ.	DC Resistance (Ω) Max	Isat (A)	Irms (A)
SSL0804T-1R0M-N	1.0	20	100	0.009	9.0	6.8
SSL0804T-1R5M-N	1.5	20	90	0.010	8.0	6.4
SSL0804T-2R2M-N	2.2	20	80	0.012	7.0	6.1
SSL0804T-3R3M-N	3.3	20	65	0.015	6.4	5.4
SSL0804T-4R7M-N	4.7	20	45	0.018	5.4	4.8
SSL0804T-6R8M-N	6.8	20	38	0.027	4.6	4.4
SSL0804T-100M-N	10	20	30	0.038	3.8	3.9
SSL0804T-150M-N	15	20	27	0.046	3.0	3.1
SSL0804T-220M-N	22	20	19	0.085	2.6	2.7
SSL0804T-330M-N	33	20	15	0.100	2.0	2.1
SSL0804T-470M-N	47	20	12	0.140	1.6	1.8
SSL0804T-680M-N	68	20	10	0.200	1.4	1.5
SSL0804T-101M-N	100	20	9	0.260	1.2	1.3
SSL0804T-151M-N	150	20	6	0.400	1.0	1.0
SSL0804T-221M-N	220	20	5	0.610	0.8	0.8
SSL0804T-331M-N	330	20	4.5	1.020	0.6	0.6
SSL0804T-471M-N	470	20	3.5	1.270	0.5	0.5
SSL0804T-681M-N	680	20	2.5	2.020	0.4	0.4
SSL0804T-102M-N	1000	20	2.0	3.000	0.3	0.3

- Inductance tested at 100 KHz, 0.1 Vrms.
- Inductance drop = 20% typ. at Isat.
- ΔT = 15℃ rise typ. at Irms.
- Tolerance: M = ±20%
- Operating temperature range －４０℃～１２５℃ (Including self - temperature rise)

Test Instruments：





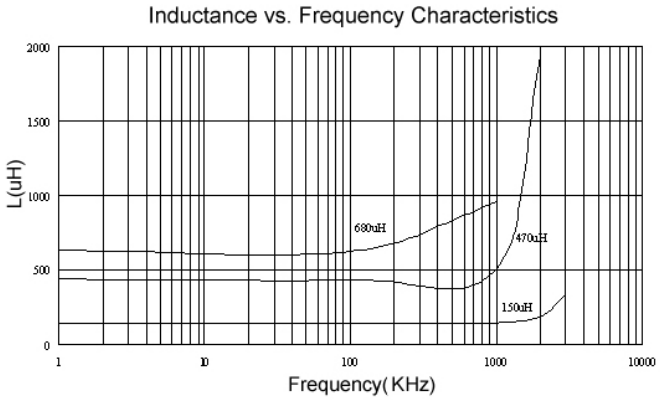
CHILISIN ELECTRONICS CORP.

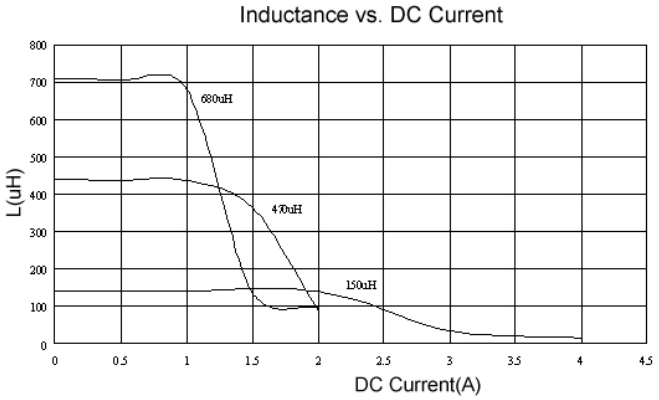
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	DC Resistance (Ω) Max	SRF (MHz) Typ.	Isat (A)	Irms (A)
SSL0810T-100M-N	10	20	0.033	22	8.0	3.5
SSL0810T-150M-N	15	20	0.042	18	7.0	3.0
SSL0810T-220M-N	22	20	0.054	11	5.5	2.5
SSL0810T-330M-N	33	20	0.08	9	4.0	2.0
SSL0810T-470M-N	47	20	0.10	8	3.8	1.6
SSL0810T-680M-N	68	20	0.17	7	3.0	1.2
SSL0810T-101M-N	100	20	0.22	5	2.5	1.2
SSL0810T-151M-N	150	20	0.34	4	2.0	0.9
SSL0810T-221M-N	220	20	0.44	3.5	1.6	0.7
SSL0810T-331M-N	330	20	0.70	2.5	1.2	0.6
SSL0810T-471M-N	470	20	0.95	2	1.0	0.3
SSL0810T-681M-N	680	20	1.2	2	1.0	0.2
SSL0810T-102M-N	1000	20	2.0	1.5	0.8	0.1

- Inductance tested at 100 KHz, 0.1 Vrms.
- Inductance drop = 20% typ. at Isat.
- ΔT = 40℃ rise typ. at Irms.
- Tolerance: M = ±20%
- Operating temperature range －４０℃～１２５℃ (Including self - temperature rise)

Test Instruments：



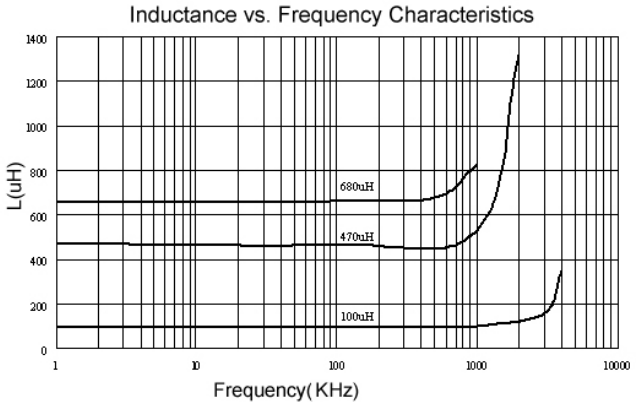


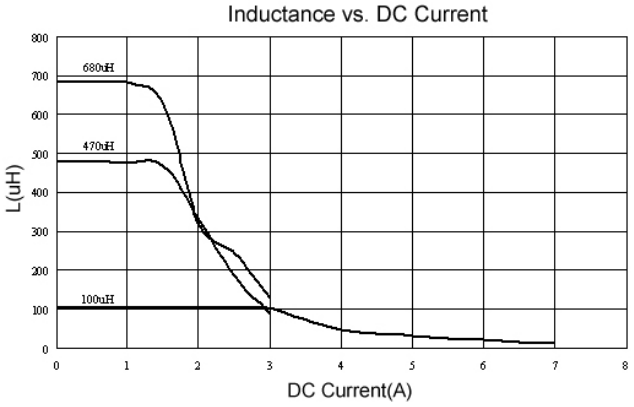
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	SRF (MHz) Typ.	DC Resistance (Ω+15%)	Isat (A)	Irms (A)
SSL1306T-1R0M-N	1.0	20	80	0.011	20	8.6
SSL1306T-2R2M-N	2.2	20	80	0.014	16	7.1
SSL1306T-3R3M-N	3.3	20	60	0.016	14	6.2
SSL1306T-5R6M-N	5.6	20	40	0.022	12	5.3
SSL1306T-100M-N	10	20	30	0.032	10	4.3
SSL1306T-150M-N	15	20	22	0.036	8.0	4.0
SSL1306T-220M-N	22	20	20	0.047	7.0	3.5
SSL1306T-330M-N	33	20	15	0.066	5.5	3.0
SSL1306T-470M-N	47	20	9	0.087	4.5	2.6
SSL1306T-680M-N	68	20	8	0.13	3.5	2.3
SSL1306T-101M-N	100	20	7	0.19	3.0	1.8
SSL1306T-151M-N	150	20	6	0.25	2.6	1.5
SSL1306T-221M-N	220	20	5	0.38	2.4	1.2
SSL1306T-331M-N	330	20	4	0.56	1.9	1.0
SSL1306T-471M-N	470	20	3	0.85	1.4	0.82
SSL1306T-681M-N	680	20	2.5	1.2	1.2	0.72
SSL1306T-102M-N	1000	20	2	1.8	1.0	0.56

- Inductance tested at 100 KHz, 0.1 Vrms.
- Inductance drop = 20% typ. at Isat.
- ΔT = 40℃ rise typ. at Irms.
- Tolerance: M = ±20%
- Operating temperature range －40℃～125℃ (Including self - temperature rise)

Test Instruments：

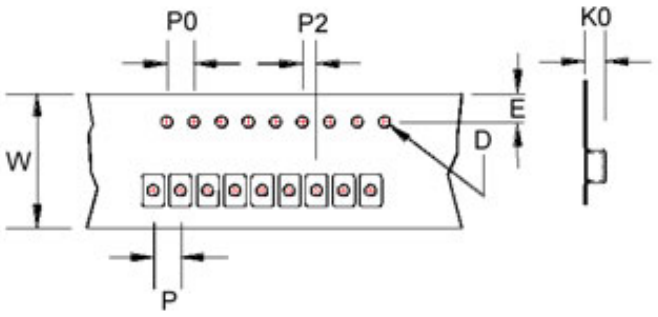




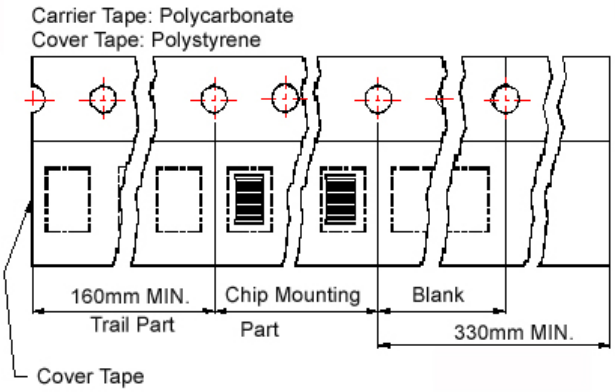
CHILISIN ELECTRONICS CORP.

Packaging Specifications

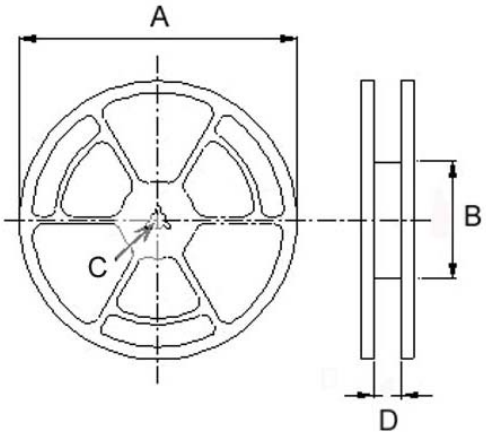
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity (PCS / REEL)	
	K0	D	E	W	P	P0	P2	A	B	C	D	178mm	330mm
SSL 04LP	1.30	1.5	1.75	12	8	4	2	330	100	13	13.4	-	3500
								178	60		13.2	1000	-
SSL 0400	1.85	1.5	1.75	12	8	4	2	330	100	13	13.4	-	3500
								178	60		13.2	1000	-
SSL0402	3.2	1.55	1.75	12	8	4	2	330	100	13	13.4	-	2500
								178	60		13.2	750	-
SSL 0614	1.8	1.5	1.75	16	12	4	2	330	100	13	17.4	-	2500
SSL 0802	3.75	1.55	1.75	24	16	4	2	330	100	13	24.4	-	1000
SSL 0804	5.4	1.55	1.75	24	16	4	2	330	100	13	24.4	-	750
SSL 0810	11.5	1.55	1.75	24	20	4	2	330	100	13	24.4	-	225
SSL 1306	7.5	1.55	1.75	32	20	4	2	330	100	13	33.4	-	350

SSL-HC Series

This series is specially designed for high current, low voltage DC-DC converter applications. Its simple, rugged design provides current ratings normally available in larger packages. With tinned self-leaded construction, SSL-HC series can achieve very low DCR values and excellent solderability. In addition, they have very low resistance. Standard parts shown in catalogue and custom values are also available.

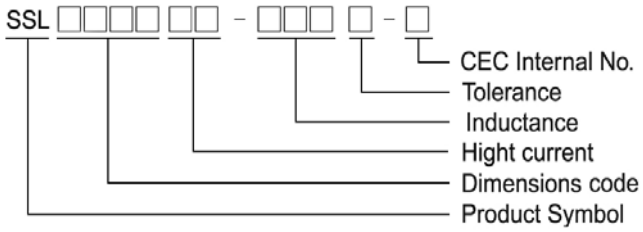
Features

- RoHS compliant
- For high current, low voltage DC-DC converter applications

Applications

- Notebook computers
- step-up and step-down converters
- memory programmers, etc

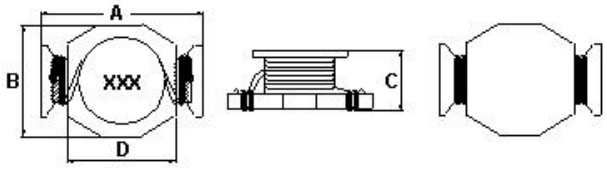
Product Identification



- Packaging: T：Tape and Reel , B：Bulk

Shape and Dimension

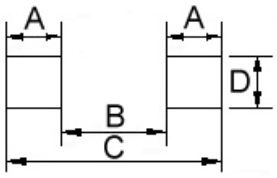
SSL0503HC



Dimension in mm

A	B	C	D
8.89^{+0}	6.10^{+0}	5.00^{+0}	5.84

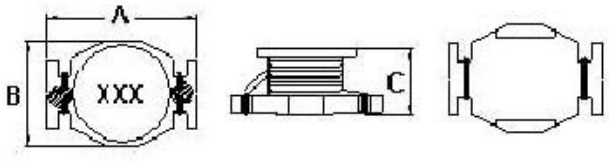
Recommended Pattern



Dimension in mm

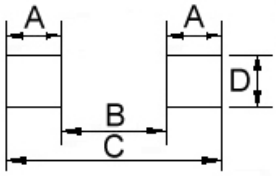
A	B	C	D
1.91	4.06	8.89	5.08

SSL0804HC



Dimension in mm

A	B	C
13.21^{+0}	9.91^{+0}	6.35^{+0}

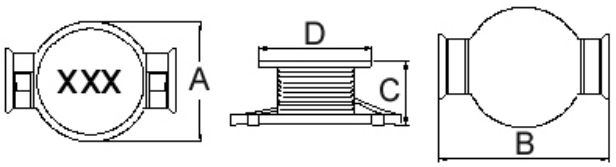


Dimension in mm

A	B	C	D
1.52	4.06	11.68	8.64

Shape and Dimension

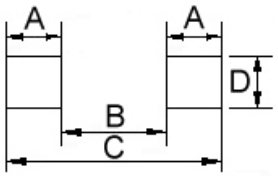
SSL1306HC



Dimension in mm

A	B	C	D
16.26^{+0}	22.35^{+0}	8.0^{+0}	12.7

Recommended Pattern



Dimension in mm

A	B	C	D
3.18	14.35	20.71	8.64

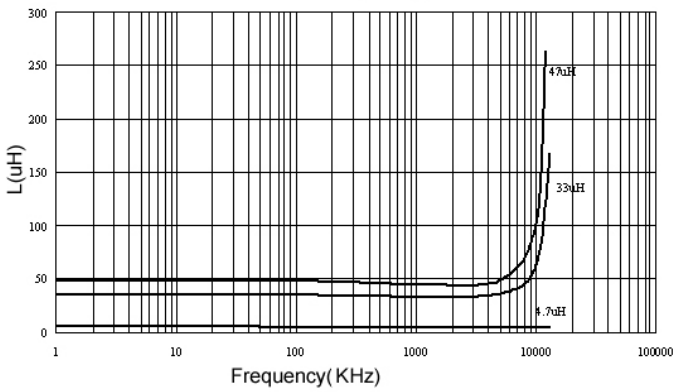
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	DC Resistance (Ω) Max	SRF (MHz) Typ.	Isat (A)	Irms (A)
SSL0503HC-R56M-N	0.56	20	0.010	200	7.7	6.0
SSL0503HC-1R2M-N	1.2	20	0.017	140	5.3	4.4
SSL0503HC-2R2M-N	2.2	20	0.035	100	3.5	3.1
SSL0503HC-4R7M-N	4.7	20	0.054	50	2.6	2.2
SSL0503HC-100M-N	10	20	0.111	40	1.9	1.5
SSL0503HC-150M-N	15	20	0.17	30	1.5	1.2
SSL0503HC-220M-N	22	20	0.25	25	1.2	1.0
SSL0503HC-330M-N	33	20	0.37	20	0.99	0.82
SSL0503HC-470M-N	47	20	0.47	15	0.87	0.72

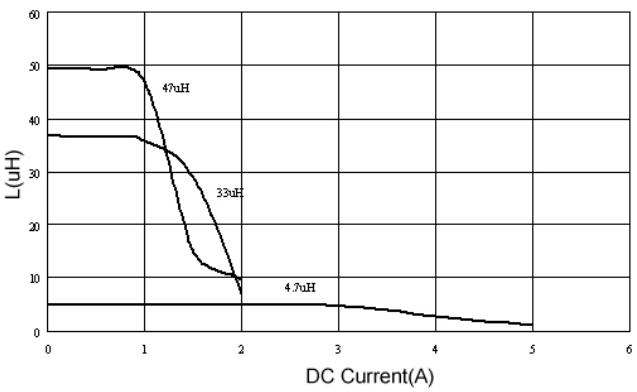
- Inductance tested at 100 KHz, 0.25 Vrms.
- SRF measured using HP8753D network analyzer
- Inductance drop = 30% typ. at Isat.
- ΔT = 40° typ. at Irms.
- Tolerance: M = ±20%
- Operating temperature range－４０℃～１２５℃ (Including self - temperature rise)
- Electrical specifications at 25℃

Test Instruments：

Inductance vs. Frequency Characteristics



Inductance vs. DC Current



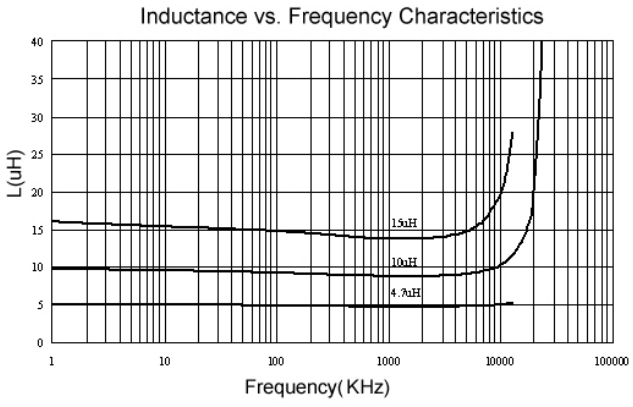
CHILISIN ELECTRONICS CORP.

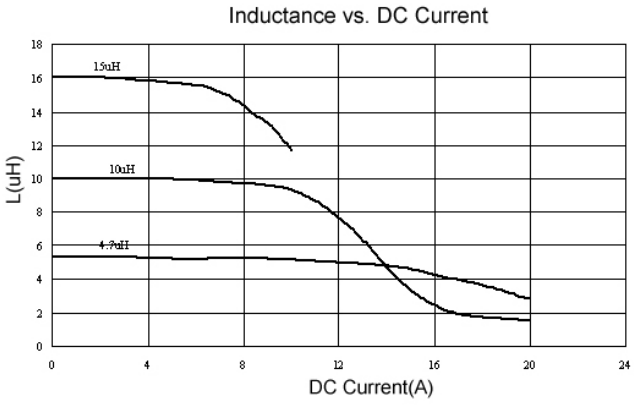
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	DC Resistance (Ω) Max	SRF (MHz) Typ.	Isat (A)	Irms (A)
SSL0804HC-R33M-N	0.33	20	0.002	300	20.0	16.0
SSL0804HC-R68M-N	0.68	20	0.005	200	13.0	12.0
SSL0804HC-1R0M-N	1.0	20	0.006	100	11.0	10.0
SSL0804HC-1R5M-N	1.5	20	0.008	90	9.0	9.0
SSL0804HC-2R2M-N	2.2	20	0.011	90	7.8	7.4
SSL0804HC-2R7M-N	2.7	20	0.012	65	7.0	6.6
SSL0804HC-3R3M-N	3.3	20	0.014	65	6.4	5.9
SSL0804HC-4R7M-N	4.7	20	0.018	45	5.4	4.8
SSL0804HC-6R8M-N	6.8	20	0.035	35	3.6	5.0
SSL0804HC-100M-N	10	20	0.04	26	3.3	4.3
SSL0804HC-150M-N	15	20	0.06	21	2.4	3.5
SSL0804HC-220M-N	22	20	0.08	17	2.0	2.8
SSL0804HC-330M-N	33	20	0.15	14	1.7	2.1
SSL0804HC-470M-N	47	20	0.28	12	1.4	1.7
SSL0804HC-680M-N	68	20	0.3	9	1.2	1.5
SSL0804HC-101M-N	100	20	0.4	7	0.95	1.2

- Inductance tested at 100 KHz, 0.1 Vrms.
- SRF measured using HP8753D network analyzer
- Inductance drop = 10% typ. at Isat.
- ΔT = 40℃ typ. at Irms.
- Tolerance: M = ±20%
- Operating temperature range －４０℃～１２５℃ (Including self - temperature rise)
- Electrical specifications at 25℃

Test Instruments：





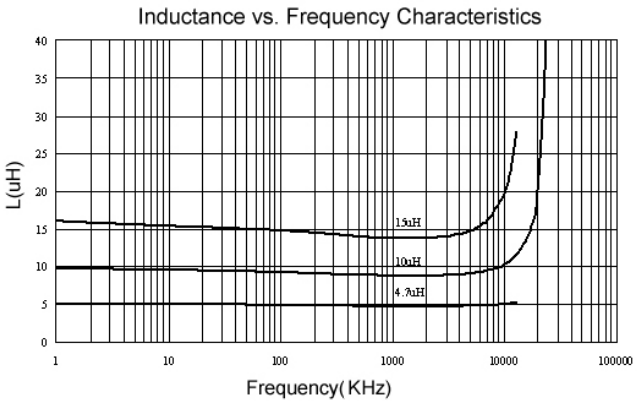
CHILISIN ELECTRONICS CORP.

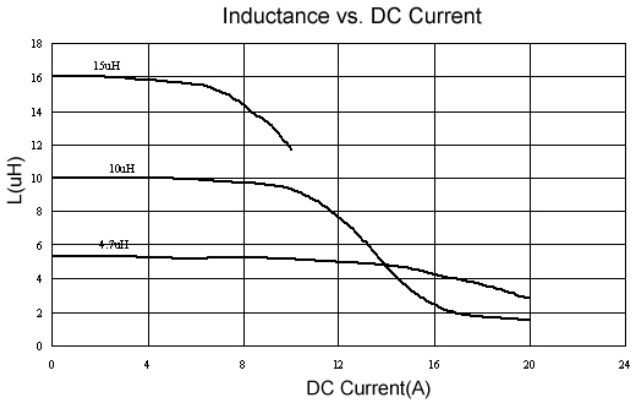
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	DC Resistance (Ω) Max	SRF (MHz) Typ.	Isat (A) Typ.	Irms (A)
SSL1306HC-R78M-N	0.78	20	0.0026	156	30	15
SSL1306HC-1R5M-N	1.5	20	0.0040	100	25	15
SSL1306HC-2R2M-N	2.2	20	0.0061	75	20	12
SSL1306HC-3R3M-N	3.3	20	0.0086	60	17	10
SSL1306HC-3R9M-N	3.9	20	0.010	55	15	9.0
SSL1306HC-4R7M-N	4.7	20	0.014	40	13	8.4
SSL1306HC-6R0M-N	6.0	20	0.017	35	12	7.5
SSL1306HC-7R8M-N	7.8	20	0.018	35	11	7.5
SSL1306HC-100M-N	10	20	0.026	28	10	6.0
SSL1306HC-150M-N	15	20	0.032	20	8	4.4

- L: Tested at 100 KHz, 0.1 Vrms.
- Isat: Inductance drop = 10% typ.
- ΔT = 40℃ typ. at Irms.
- Tolerance: M = ±20%
- Operating temperature range －４０℃～１２５℃ (Including self - temperature rise)

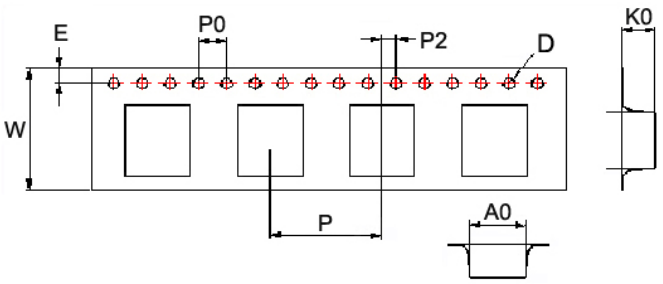
Test Instruments：



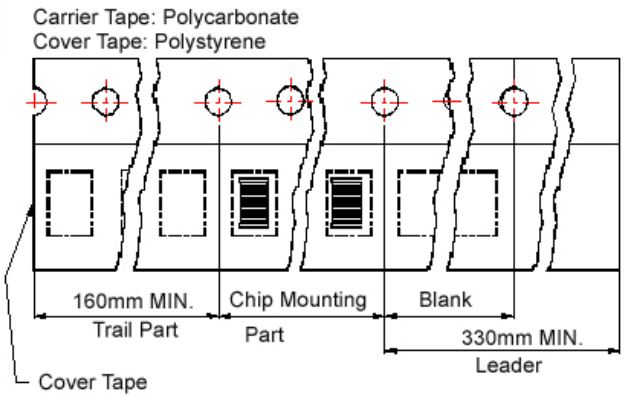


Packaging Specifications

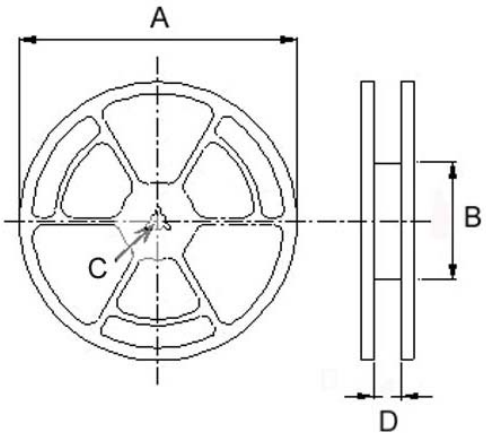
Tape Dimensions



Tape Material



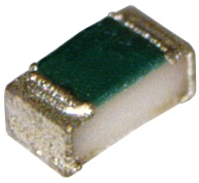
Reel Dimensions



Dimensions in mm

TPYE	Tape Dimensions							Reel Dimensions				Quantity
	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
SSL 0503HC	5.3	1.55	1.75	16	12	4	2	330	100	13	17.4	1000
SSL 0804HC	6.1	1.55	1.75	24	16	4	2	330	100	13	24.2	700
SSL 1306HC	7.2	1.55	1.75	44	24	4	2	330	100	13	45.4	350

TFL Series



The TFL Series is designed for miniaturized devices, featuring low inductance, high precision and low loss. It allows for easy impedance matching for both RF and IF circuit designs as well as compact high frequency circuit designs

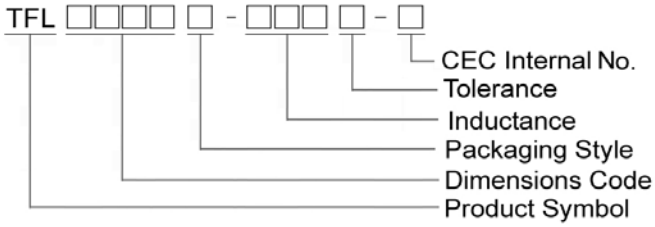
Features

- Ultra small size
- Excellent Q factor and SRF characteristics
- Minimal deviation in inductance
- Finely graded inductance level

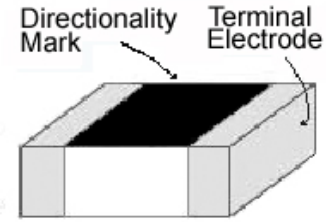
Applications

- RF and wireless communication
- Bluetooth, cellular phone, ultrabook, telecommunications, W-LAN
- High frequency circuits in general

Product Identification



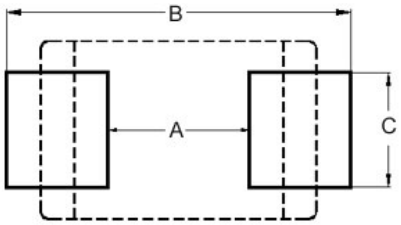
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D
TFL0603	0.6±0.03	0.3±0.03	0.3±0.03	0.10±0.05

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
TFL0603	0.3	0.75 ~ 1.05	0.3

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Typ.	DC Resistance (Ω) Max	IDC (mA) Max
TFL0603T-0N6☐-S	0.6	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.10	450
TFL0603T-0N7☐-S	0.7	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.10	450
TFL0603T-0N8☐-S	0.8	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.10	420
TFL0603T-0N9☐-S	0.9	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.10	410
TFL0603T-1N0☐-S	1.0	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.10	410
TFL0603T-1N1☐-S	1.1	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.10	400
TFL0603T-1N2☐-S	1.2	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.10	280
TFL0603T-1N3☐-S	1.3	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.12	280
TFL0603T-1N4☐-S	1.4	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.13	280
TFL0603T-1N5☐-S	1.5	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.16	280
TFL0603T-1N6☐-S	1.6	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.16	280
TFL0603T-1N7☐-S	1.7	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.20	280
TFL0603T-1N8☐-S	1.8	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.20	220
TFL0603T-1N9☐-S	1.9	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.20	220
TFL0603T-2N0☐-S	2.0	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.20	220
TFL0603T-2N1☐-S	2.1	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.20	220
TFL0603T-2N2☐-S	2.2	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.20	220
TFL0603T-2N3☐-S	2.3	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.20	220
TFL0603T-2N4☐-S	2.4	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.20	220
TFL0603T-2N5☐-S	2.5	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.20	220
TFL0603T-2N6☐-S	2.6	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.20	220
TFL0603T-2N7☐-S	2.7	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.23	220
TFL0603T-2N8☐-S	2.8	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.25	220
TFL0603T-2N9☐-S	2.9	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.25	220
TFL0603T-3N0☐-S	3.0	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.30	220
TFL0603T-3N1☐-S	3.1	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.30	190
TFL0603T-3N2☐-S	3.2	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.30	190
TFL0603T-3N3☐-S	3.3	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.30	190
TFL0603T-3N4☐-S	3.4	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.32	170
TFL0603T-3N5☐-S	3.5	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.32	170
TFL0603T-3N6☐-S	3.6	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.32	170
TFL0603T-3N7☐-S	3.7	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.40	170
TFL0603T-3N8☐-S	3.8	±0.1nH/±0.2nH	12	500 / 500mV	6000	0.40	170
TFL0603T-3N9☐-S	3.9	±0.1nH/±0.2nH	12	500 / 500mV	5700	0.40	170
TFL0603T-4N3☐-S	4.3	3/5	12	500 / 500mV	5300	0.40	160
TFL0603T-4N7☐-S	4.7	3/5	12	500 / 500mV	4400	0.45	150
TFL0603T-5N1☐-S	5.1	3/5	12	500 / 500mV	4200	0.50	140
TFL0603T-5N6☐-S	5.6	3/5	12	500 / 500mV	4000	0.55	140
TFL0603T-6N2☐-S	6.2	3/5	12	500 / 500mV	4000	0.60	130
TFL0603T-6N8☐-S	6.8	3/5	12	500 / 500mV	3900	0.70	130
TFL0603T-7N5☐-S	7.5	3/5	12	500 / 500mV	3700	1.10	110
TFL0603T-8N2☐-S	8.2	3/5	12	500 / 500mV	3600	1.20	110
TFL0603T-9N1☐-S	9.1	3/5	12	500 / 500mV	3300	1.20	100
TFL0603T-10N☐-S	10	3/5	12	500 / 500mV	3200	1.30	90

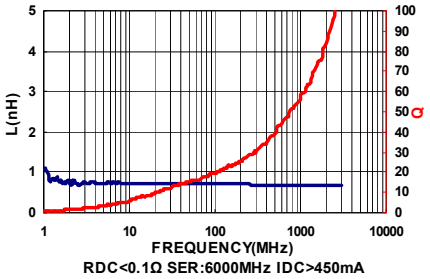
Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Typ.	DC Resistance (Ω) Max	IDC (mA) Max
TFL0603T-12N□-S	12	3/5	12	500 / 500mV	2900	1.30	90
TFL0603T-15N□-S	15	3/5	12	500 / 500mV	2600	1.50	90
TFL0603T-18N□-S	18	3/5	12	500 / 500mV	2200	1.70	80
TFL0603T-22N□-S	22	3/5	12	500 / 500mV	2200	2.55	70

-
- Tolerance：B = ± 0.1nH , C = ± 0.2nH , H = ± 3% , J = ± 5%
- Test Instruments： L/Q：Agilent E4991A Fixture：Agilent 16197A
  SRF：HP8753D
  RDC：HP4338B/ CH502BC

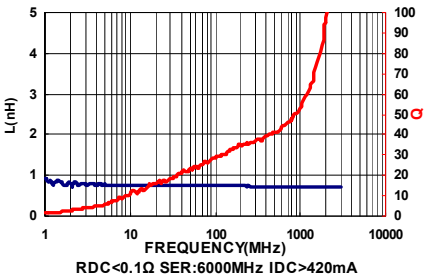
Test Instruments：Agilent E4991A Material/Impedance Analyzer

TFL0603T-0N6C-S



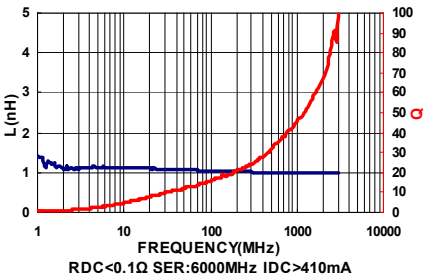
RDC<0.1Ω SER:6000MHz IDC>450mA

TFL0603T-0N8C-S



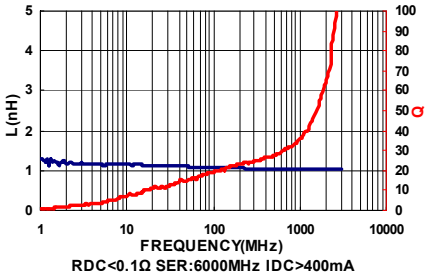
RDC<0.1Ω SER:6000MHz IDC>420mA

TFL0603T-1N0C-S



RDC<0.1Ω SER:6000MHz IDC>410mA

TFL0603T-1N1C-S



RDC<0.1Ω SER:6000MHz IDC>400mA

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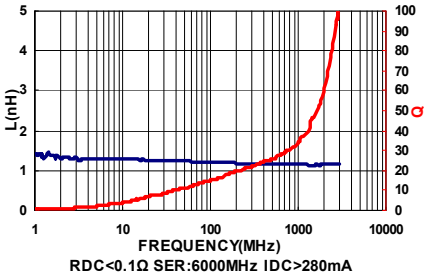
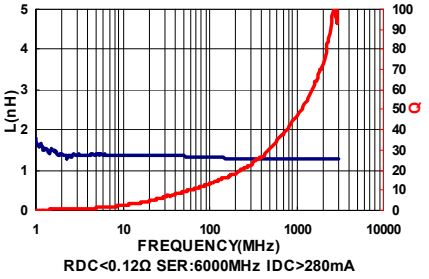


RDC<0.1Ω SER:6000MHz IDC>280mA

TFL0603T-1N3C-S



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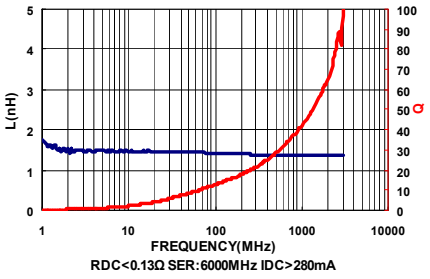
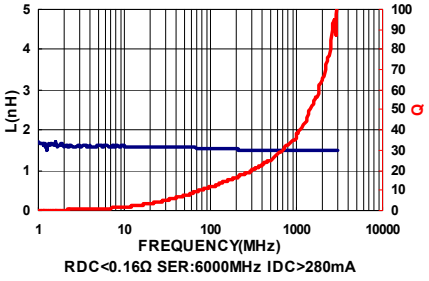


RDC<0.13Ω SER:6000MHz IDC>280mA

TFL0603T-1N5C-S



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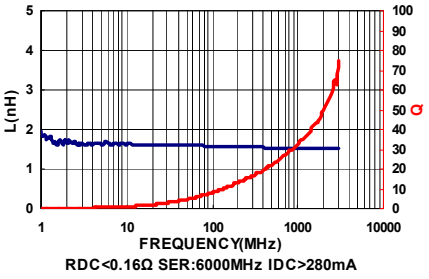
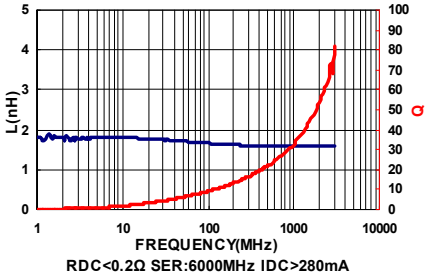


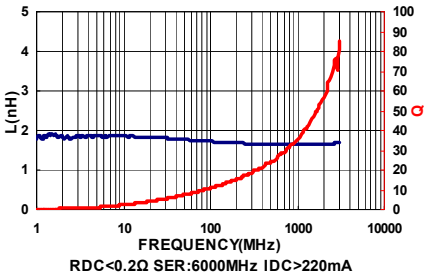
RDC<0.16Ω SER:6000MHz IDC>280mA

TFL0603T-1N7C-S



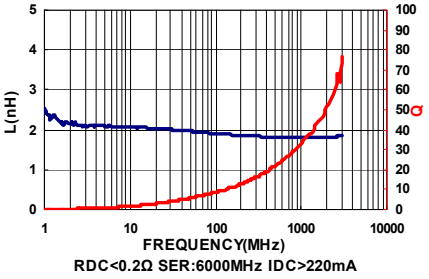
RDC<0.2Ω SER:6000MHz IDC>280mA

TFL0603T-1N8C-S



RDC<0.2Ω SER:6000MHz IDC>220mA

TFL0603T-1N9C-S



RDC<0.2Ω SER:6000MHz IDC>220mA

Test Instruments：Agilent E4991A Material/Impedance Analyzer

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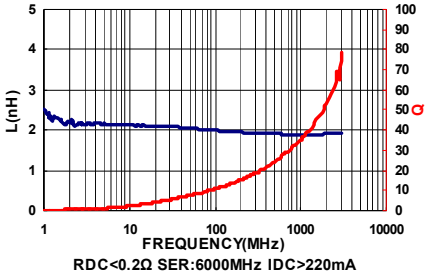

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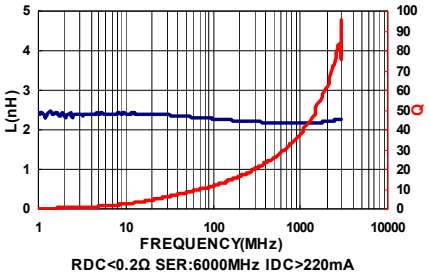

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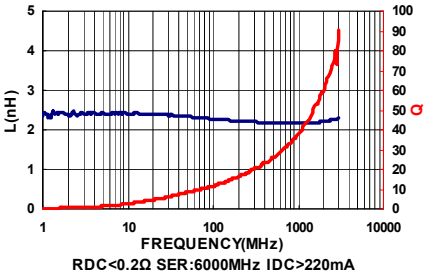

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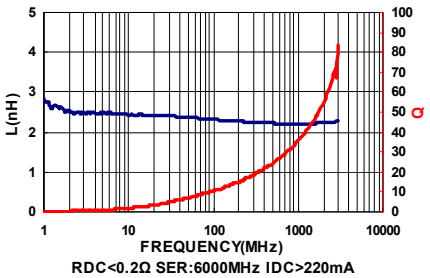

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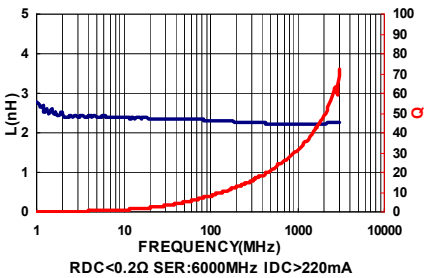

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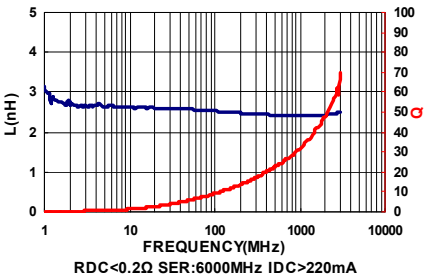

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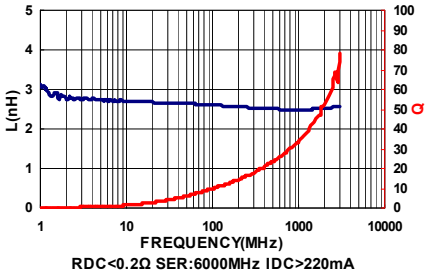

RDC<0.2Ω SER:6000MHz IDC>220mA

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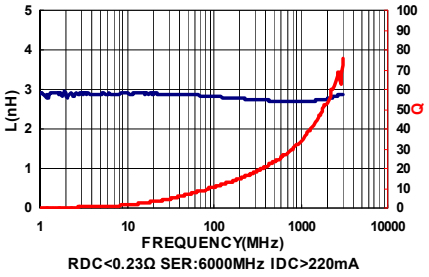

RDC<0.23Ω SER:6000MHz IDC>220mA

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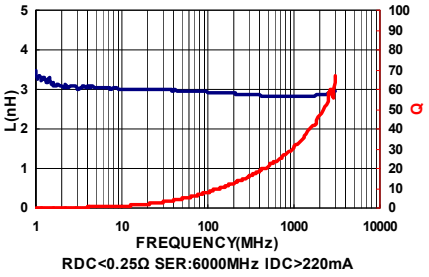

RDC<0.25Ω SER:6000MHz IDC>220mA

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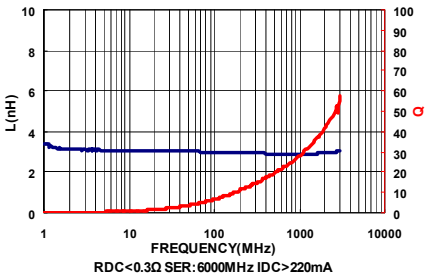
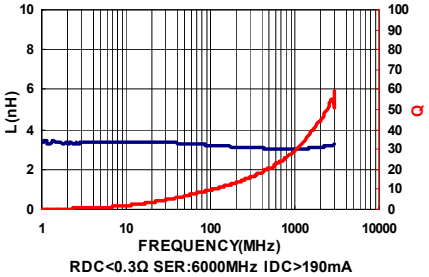


RDC<0.3Ω SER:6000MHz IDC>220mA

TFL0603T-3N1C-S



RDC<0.3Ω SER:6000MHz IDC>190mA

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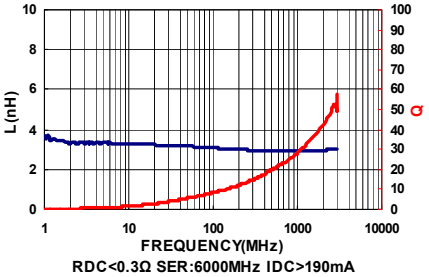

RDC<0.3Ω SER:6000MHz IDC>190mA

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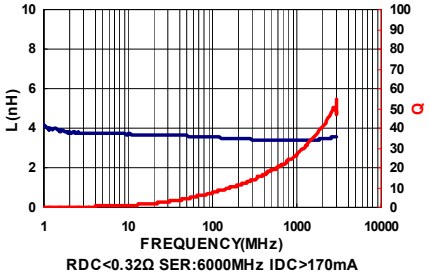
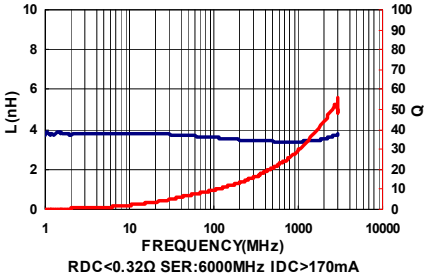


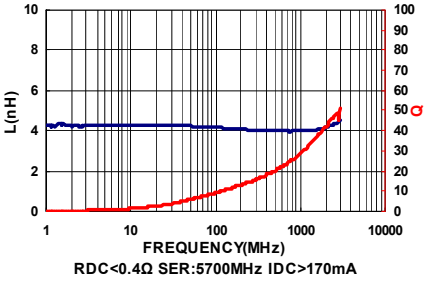
RDC<0.32Ω SER:6000MHz IDC>170mA

TFL0603T-3N6C-S



RDC<0.32Ω SER:6000MHz IDC>170mA

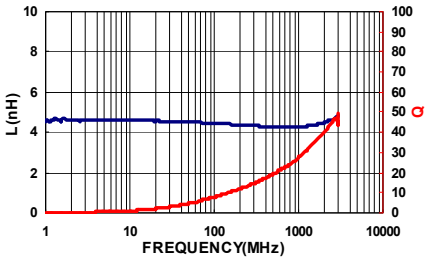
TFL0603T-3N9C-S



RDC<0.4Ω SER:5700MHz IDC>170mA

est Instruments：Agilent E4991A Material/Impedance Analyzer

TFL0603T-4N3J-S



RDC<0.4Ω SER:5300MHz IDC>160mA

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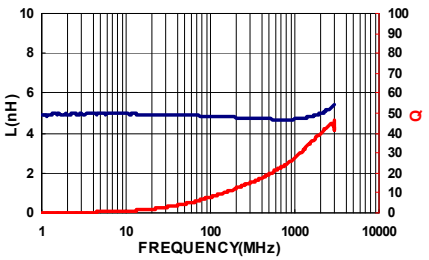
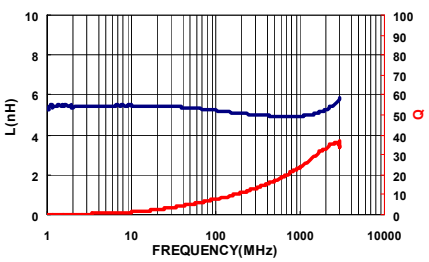


RDC<0.45Ω SER:4400MHz IDC>150mA

TFL0603T-5N1J-S



RDC<0.5Ω SER:4200MHz IDC>140mA

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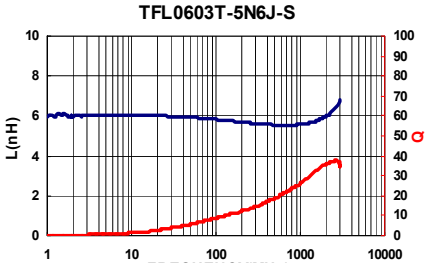
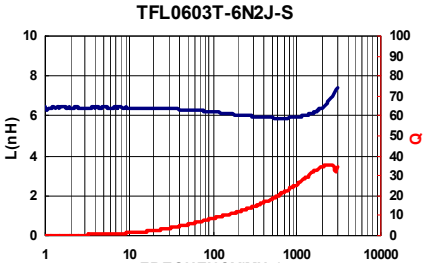


RDC<0.55Ω SER:4000MHz IDC>140mA

TFL0603T-6N2J-S



RDC<0.6Ω SER:4000MHz IDC>130mA

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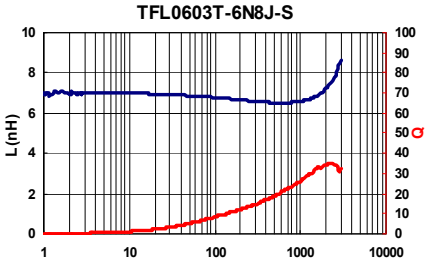

RDC<0.7Ω SER:3900MHz IDC>130mA

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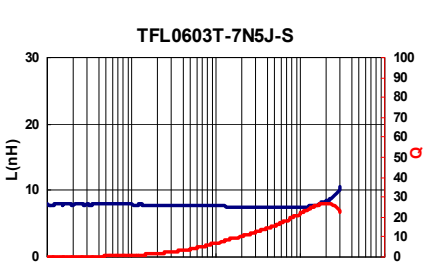
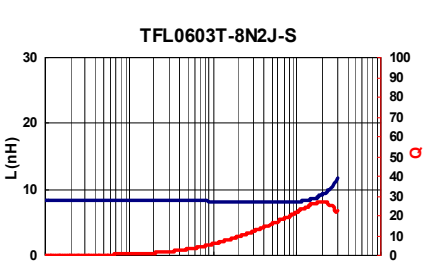


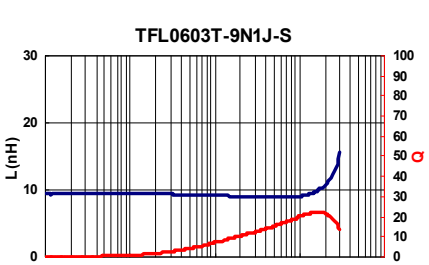
RDC<1.1Ω SER:3700MHz IDC>110mA

TFL0603T-8N2J-S



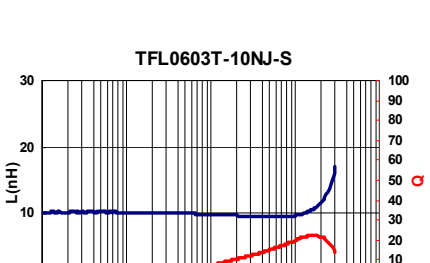
RDC<1.2Ω SER:3600MHz IDC>110mA

TFL0603T-9N1J-S



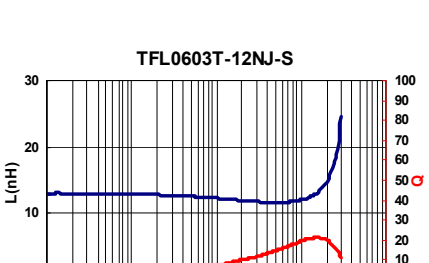
RDC<1.2Ω SER:3300MHz IDC>100mA

TFL0603T-10NJ-S



RDC<1.3Ω SER:3200MHz IDC>90mA

TFL0603T-12NJ-S



RDC<1.3Ω SER:2900MHz IDC>90mA

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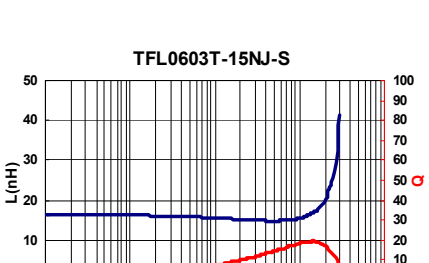

RDC<1.5Ω SER:2600MHz IDC>900mA

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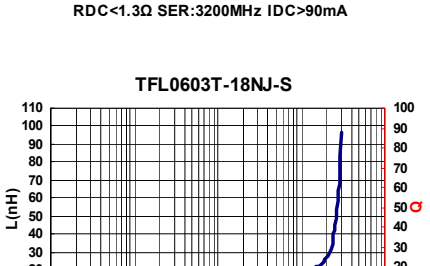

RDC<1.7Ω SER:2200MHz IDC>80mA

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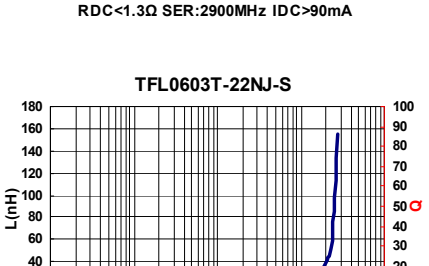
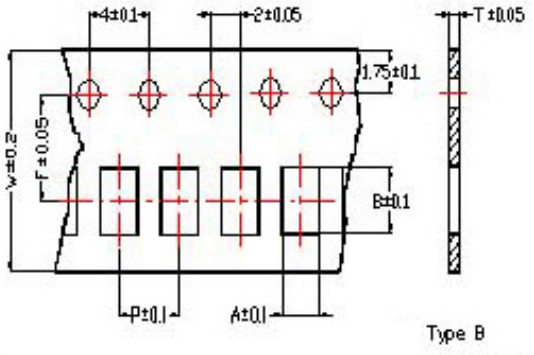


RDC<2.55Ω SER:2200MHz IDC>70mA

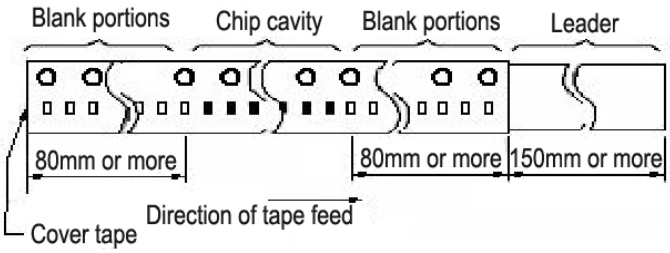
Packaging Specifications

Tape Dimensions

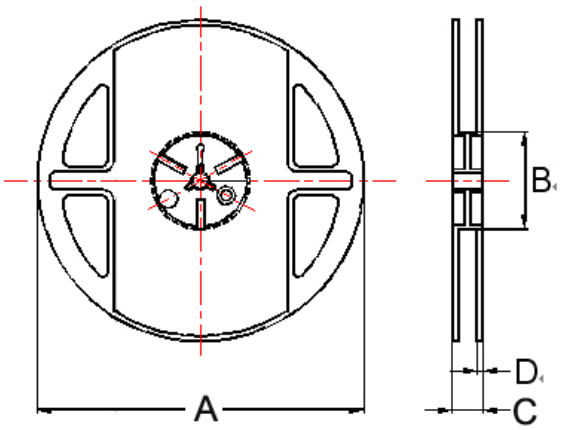


Tape Material

Carrier tape : Paper
Cover tape : Polyethylene



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions						Reel Dimensions				Quantity
	A	B	T	W	P	F	A	B	C	D	PCS / Reel
TFL0603	0.37	0.67	0.42	8	2	3.5	180	60	13	1.5	10000

CHQ Series

CHQ Series supports miniaturized devices. Its low inductance, high precision and high Q enables easy impedance matching at both RF and IF circuits and compact high frequency circuit designing.

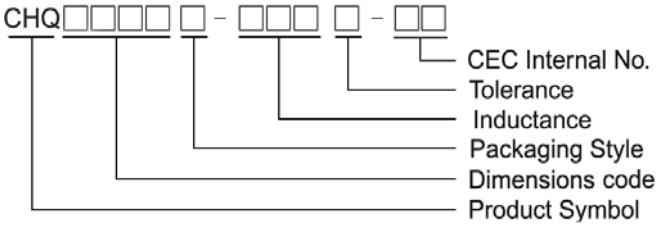
Features

- Excellent high frequency application
- High Q factor and SRF value
- Miniaturization
- Tight tolerance
- Wide inductance range

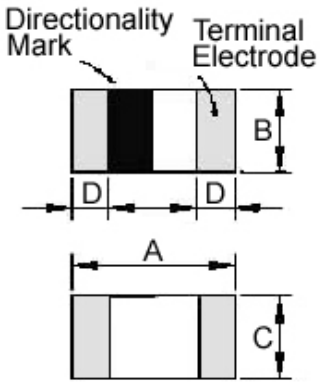
Applications

- RF matching circuit requiring Q value
- Bluetooth, WLAN, UWB, digital TV tuners and high-frequency circuit and module

Product Identification



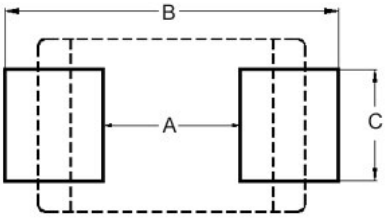
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D
CHQ0603	0.6±0.03	0.3±0.03	0.3±0.03	0.10±0.05

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
CHQ0603	0.3	0.75 ~ 1.05	0.3

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	Q Typical 500 MHz	800 MHz	1.8 GHz	2.0 GHz	2.4 GHz	SRF (MHz) Min	DC Resistance (Ω) Max	IDC (mA) Max
CHQ0603T-0N6□-HU	0.6	±0.1nH/±0.2nH/±0.3nH	14	500	>35	>47	>75	>80	>88	10000	0.06	900
CHQ0603T-0N7□-HU	0.7	±0.1nH/±0.2nH/±0.3nH	14	500	>35	>47	>75	>80	>88	10000	0.06	900
CHQ0603T-0N8□-HU	0.8	±0.1nH/±0.2nH/±0.3nH	14	500	>35	>47	>75	>80	>88	10000	0.06	900
CHQ0603T-0N9□-HU	0.9	±0.1nH/±0.2nH/±0.3nH	14	500	>35	>47	>75	>80	>88	10000	0.06	900
CHQ0603T-1N0□-HU	1.0	±0.1nH/±0.2nH/±0.3nH	14	500	>35	>47	>75	>80	>88	10000	0.07	850
CHQ0603T-1N1□-HU	1.1	±0.1nH/±0.2nH/±0.3nH	14	500	>35	>47	>75	>80	>88	10000	0.07	850
CHQ0603T-1N2□-HU	1.2	±0.1nH/±0.2nH/±0.3nH	14	500	35	47	75	80	88	10000	0.08	800
CHQ0603T-1N3□-HU	1.3	±0.1nH/±0.2nH/±0.3nH	14	500	32	43	70	74	82	10000	0.09	760
CHQ0603T-1N4□-HU	1.4	±0.1nH/±0.2nH/±0.3nH	14	500	29	39	63	67	75	10000	0.12	640
CHQ0603T-1N5□-HU	1.5	±0.1nH/±0.2nH/±0.3nH	14	500	27	36	59	62	69	10000	0.15	600
CHQ0603T-1N6□-HU	1.6	±0.1nH/±0.2nH/±0.3nH	14	500	25	33	54	57	63	10000	0.19	510
CHQ0603T-1N7□-HU	1.7	±0.1nH/±0.2nH/±0.3nH	14	500	25	32	52	54	61	10000	0.11	680
CHQ0603T-1N8□-HU	1.8	±0.1nH/±0.2nH/±0.3nH	14	500	25	32	51	53	59	10000	0.12	640
CHQ0603T-1N9□-HU	1.9	±0.1nH/±0.2nH/±0.3nH	14	500	24	31	50	53	58	10000	0.13	620
CHQ0603T-2N0□-HU	2.0	±0.1nH/±0.2nH/±0.3nH	14	500	24	31	50	53	58	10000	0.15	600
CHQ0603T-2N1□-HU	2.1	±0.1nH/±0.2nH/±0.3nH	14	500	24	31	50	53	58	10000	0.16	550
CHQ0603T-2N2□-HU	2.2	±0.1nH/±0.2nH/±0.3nH	14	500	24	31	50	53	58	10000	0.20	500
CHQ0603T-2N3□-HU	2.3	±0.1nH/±0.2nH/±0.3nH	14	500	24	31	49	52	58	10000	0.24	460
CHQ0603T-2N4□-HU	2.4	±0.1nH/±0.2nH/±0.3nH	14	500	22	28	45	48	53	10000	0.26	430
CHQ0603T-2N5□-HU	2.5	±0.1nH/±0.2nH/±0.3nH	14	500	22	29	46	49	54	10000	0.28	415
CHQ0603T-2N6□-HU	2.6	±0.1nH/±0.2nH/±0.3nH	14	500	21	27	44	46	51	10000	0.30	405
CHQ0603T-2N7□-HU	2.7	±0.1nH/±0.2nH/±0.3nH	14	500	20	26	41	43	48	10000	0.32	400
CHQ0603T-2N8□-HU	2.8	±0.1nH/±0.2nH/±0.3nH	14	500	20	26	41	43	47	9500	0.20	500
CHQ0603T-2N9□-HU	2.9	±0.1nH/±0.2nH/±0.3nH	14	500	20	26	41	43	47	9300	0.22	480
CHQ0603T-3N0□-HU	3.0	±0.1nH/±0.2nH/±0.3nH	14	500	20	26	41	43	47	9100	0.24	460
CHQ0603T-3N1□-HU	3.1	±0.1nH/±0.2nH/±0.3nH	14	500	20	26	41	43	47	8900	0.25	450
CHQ0603T-3N2□-HU	3.2	±0.1nH/±0.2nH/±0.3nH	14	500	20	26	40	43	47	8700	0.28	415
CHQ0603T-3N3□-HU	3.3	±0.1nH/±0.2nH/±0.3nH	14	500	20	26	40	43	47	8600	0.28	415
CHQ0603T-3N4□-HU	3.4	±0.1nH/±0.2nH/±0.3nH	14	500	20	25	40	43	47	8400	0.29	410
CHQ0603T-3N5□-HU	3.5	±0.1nH/±0.2nH/±0.3nH	14	500	20	25	40	42	46	8200	0.30	405
CHQ0603T-3N6□-HU	3.6	±0.1nH/±0.2nH/±0.3nH	14	500	19	25	40	42	46	8100	0.32	400
CHQ0603T-3N7□-HU	3.7	±0.1nH/±0.2nH/±0.3nH	14	500	19	25	40	42	46	8000	0.36	370
CHQ0603T-3N8□-HU	3.8	±0.1nH/±0.2nH/±0.3nH	14	500	19	25	39	41	45	7800	0.40	355
CHQ0603T-3N9□-HU	3.9	±0.1nH/±0.2nH/±0.3nH	14	500	19	25	39	41	45	7700	0.41	350
CHQ0603T-4N0□-HU	4.0	±0.1nH/±0.2nH/±0.3nH	14	500	18	28	39	41	45	7600	0.44	335
CHQ0603T-4N1□-HU	4.1	±0.1nH/±0.2nH/±0.3nH	14	500	19	25	39	41	45	7500	0.48	320
CHQ0603T-4N2□-HU	4.2	±0.1nH/±0.2nH/±0.3nH	14	500	18	24	37	39	43	7300	0.48	320
CHQ0603T-4N3□-HU	4.3	±0.2nH/±0.3nH	14	500	18	24	37	39	43	6500	0.48	320
CHQ0603T-4N6□-HU	4.6	±0.2nH/±0.3nH	14	500	18	24	37	39	42	6500	0.39	360
CHQ0603T-4N7□-HU	4.7	±0.2nH/±0.3nH	14	500	19	24	37	39	42	6400	0.42	350
CHQ0603T-5N0□-HU	5.0	±0.2nH/±0.3nH	14	500	19	24	37	39	42	6200	0.44	335
CHQ0603T-5N1□-HU	5.1	±0.2nH/±0.3nH	14	500	19	24	37	39	42	6100	0.45	330
CHQ0603T-5N4□-HU	5.4	±0.2nH/±0.3nH	14	500	18	24	36	38	42	5900	0.49	315
CHQ0603T-5N6□-HU	5.6	±0.2nH/±0.3nH	14	500	18	24	36	37	41	5500	0.47	325
CHQ0603T-5N9□-HU	5.9	±0.2nH/±0.3nH	14	500	18	23	35	36	39	5500	0.47	325
CHQ0603T-6N2□-HU	6.2	±0.2nH/±0.3nH	14	500	18	23	35	36	39	5100	0.52	305
CHQ0603T-6N5□-HU	6.5	±0.2nH/±0.3nH	14	500	18	23	35	36	39	5100	0.52	305
CHQ0603T-6N8□-HU	6.8	3/5	14	500	18	23	35	36	39	4800	0.55	305

- Tolerance：B = ± 0.1 nH；C = ± 0.2 nH；S = ± 0.3 nH；H = ± 3 %；J = ± 5%
- Test Instruments： L/Q ： Agilent E4991A Fixture：Agilent 16197A
  SRF： Agilent E4991A / HP19196C
  RDC： HP4338B/ CH502BC

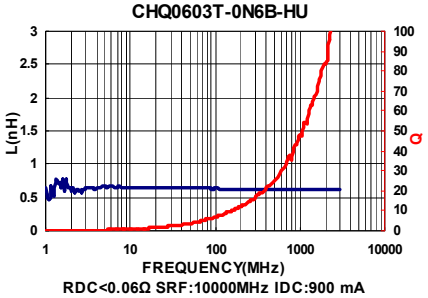
Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	Q Typical 500 MHz	800 MHz	1.8 GHz	2.0 GHz	2.4 GHz	SRF (MHz) Min	DC Resistance (Ω) Max	IDC (mA) Max
CHQ0603T-7N1□-HU	7.1	3/5	14	500	18	23	35	36	39	4800	0.55	305
CHQ0603T-7N5□-HU	7.5	3/5	14	500	18	23	34	35	38	4600	0.55	305
CHQ0603T-7N8□-HU	7.8	3/5	14	500	17	22	33	34	36	4600	0.51	310
CHQ0603T-8N2□-HU	8.2	3/5	14	500	17	22	33	34	36	4300	0.57	290
CHQ0603T-8N5□-HU	8.5	3/5	14	500	17	22	33	34	36	4300	0.57	290
CHQ0603T-9N1□-HU	9.1	3/5	14	500	17	22	33	34	36	4000	0.65	270
CHQ0603T-9N4□-HU	9.4	3/5	14	500	17	22	33	34	36	4000	0.73	250
CHQ0603T-10N□-HU	10	3/5	14	500	17	22	33	34	36	3800	0.85	230
CHQ0603T-12N□-HU	12	3/5	14	500	17	22	31	32	33	3300	0.85	230
CHQ0603T-15N□-HU	15	3/5	14	500	17	21	28	29	29	2600	0.89	220
CHQ0603T-18N□-HU	18	3/5	14	500	16	21	26	26	25	2300	1.05	205
CHQ0603T-22N□-HU	22	3/5	14	500	16	21	26	26	24	1900	1.29	190

- Tolerance：B = ± 0.1 nH；C = ± 0.2 nH；S = ± 0.3 nH；H = ± 3 %；J = ± 5%
- Test Instruments： L/Q ： Agilent E4991A Fixture：Agilent 16197A
  SRF： Agilent E4991A / HP19196C
  RDC： HP4338B/ CH502BC

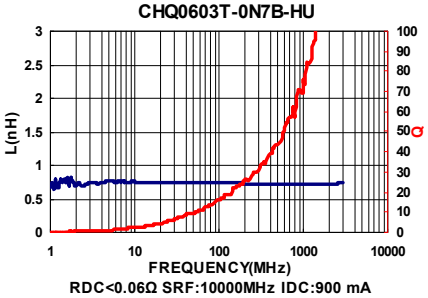
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CHQ0603T-0N6B-HU



RDC<0.06Ω SRF:10000MHz IDC:900 mA

CHQ0603T-0N7B-HU



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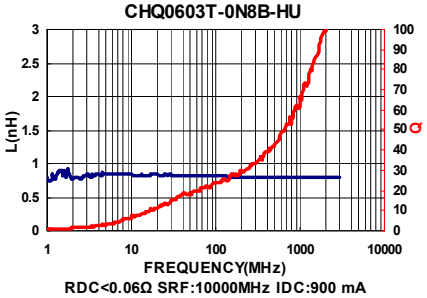
CHQ0603T-0N8B-HU



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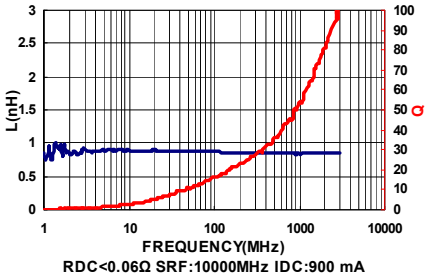
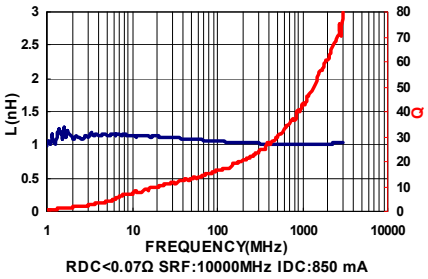
CHQ0603T-0N9B-HU



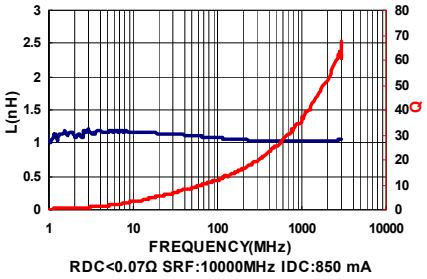
RDC<0.06Ω SRF:10000MHz IDC:900 mA

CHQ0603T-1N0B-HU



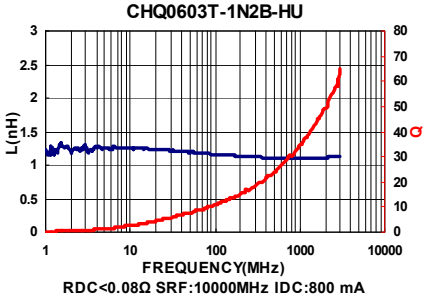
RDC<0.07Ω SRF:10000MHz IDC:850 mA

CHQ0603T-1N1B-HU



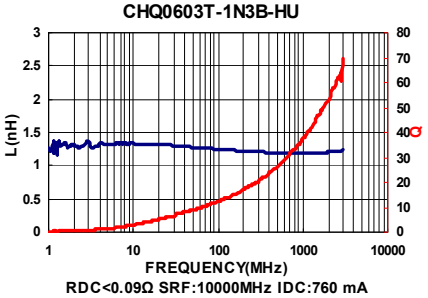
RDC<0.07Ω SRF:10000MHz IDC:850 mA

CHQ0603T-1N2B-HU



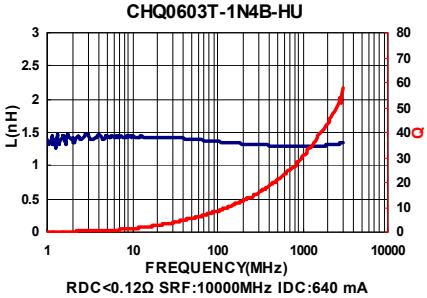
RDC<0.08Ω SRF:10000MHz IDC:800 mA

CHQ0603T-1N3B-HU



RDC<0.09Ω SRF:10000MHz IDC:760 mA

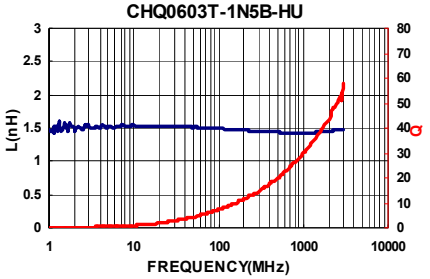
CHQ0603T-1N4B-HU



RDC<0.12Ω SRF:10000MHz IDC:640 mA

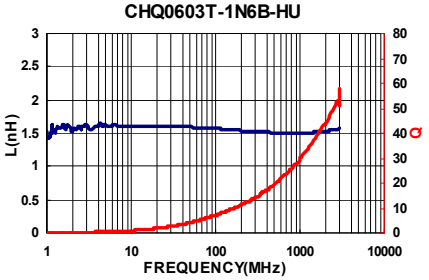
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CHQ0603T-1N5B-HU



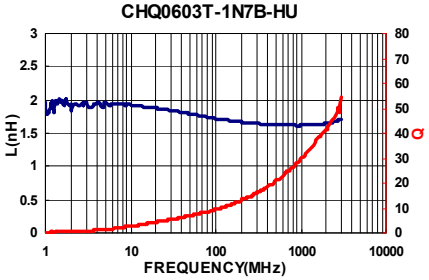
RDC<0.15Ω SRF:10000MHz IDC:600 mA

CHQ0603T-1N6B-HU



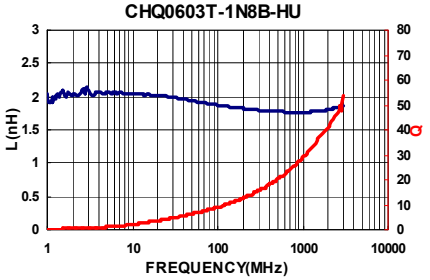
RDC<0.19Ω SRF:10000MHz IDC:510 mA

CHQ0603T-1N7B-HU



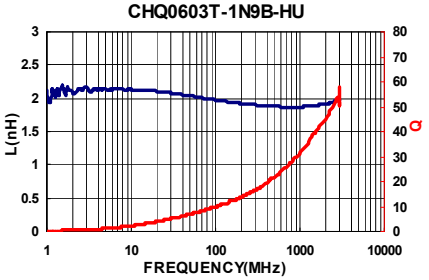
RDC<0.11Ω SRF:10000MHz IDC:680 mA

CHQ0603T-1N8B-HU



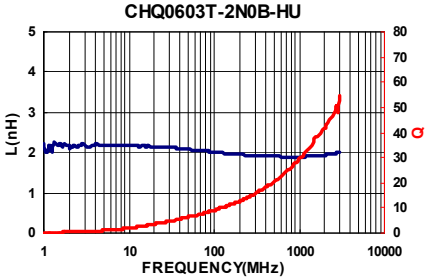
RDC<0.12Ω SRF:10000MHz IDC:640 mA

CHQ0603T-1N9B-HU



RDC<0.13Ω SRF:10000MHz IDC:620 mA

CHQ0603T-2N0B-HU



RDC<0.15Ω SRF:10000MHz IDC:600 mA

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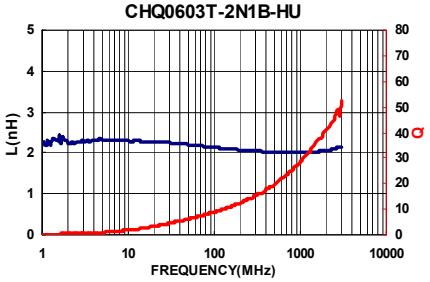
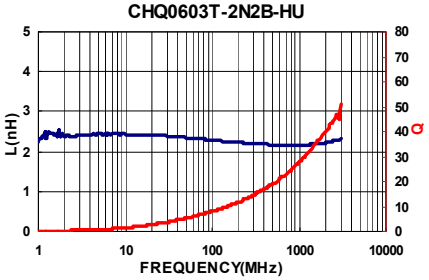


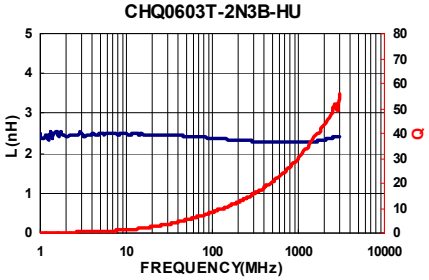
RDC<0.16Ω SRF:10000MHz IDC:550 mA

CHQ0603T-2N2B-HU



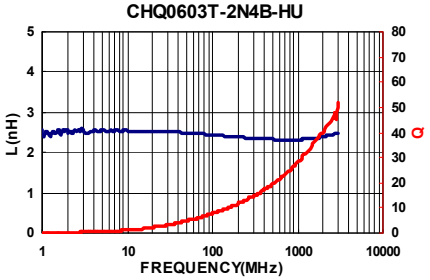
RDC<0.2Ω SRF:10000MHz IDC:500 mA

CHQ0603T-2N3B-HU



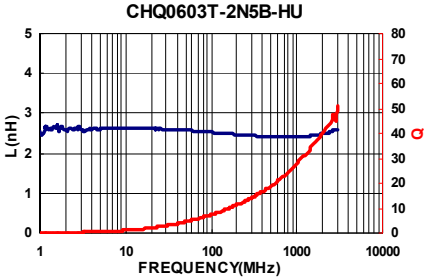
RDC<0.24Ω SRF:10000MHz IDC:460 mA

CHQ0603T-2N4B-HU



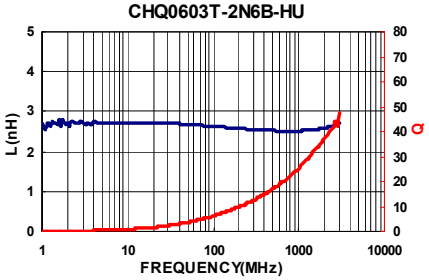
RDC<0.26Ω SRF:10000MHz IDC:430 mA

CHQ0603T-2N5B-HU



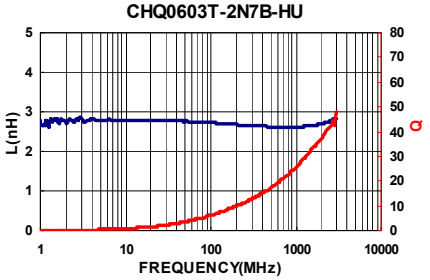
RDC<0.28Ω SRF:10000MHz IDC:415 mA

CHQ0603T-2N6B-HU



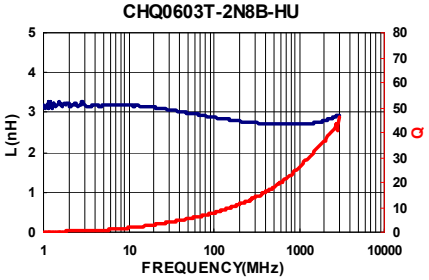
RDC<0.3Ω SRF:10000MHz IDC:405 mA

CHQ0603T-2N7B-HU



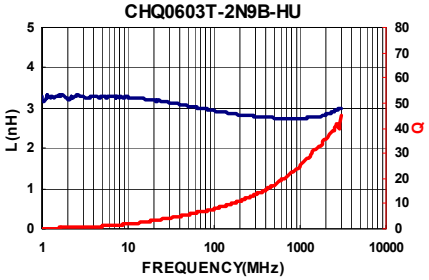
RDC<0.32Ω SRF:10000MHz IDC:400 mA

CHQ0603T-2N8B-HU



RDC<0.2Ω SRF:9500MHz IDC:500 mA

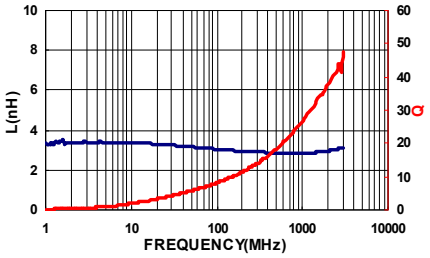
CHQ0603T-2N9B-HU



RDC<0.22Ω SRF:9300MHz IDC:480 mA

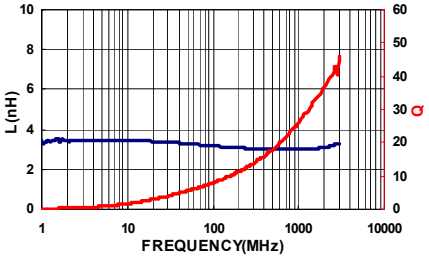
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CHQ0603T-3N0B-HU



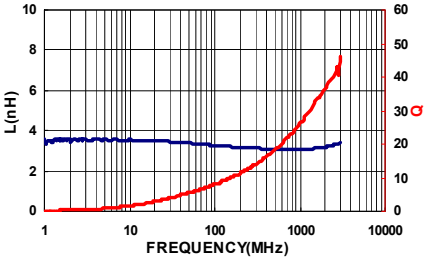
RDC<0.24Ω SRF:9100MHz IDC:460 mA

CHQ0603T-3N1B-HU



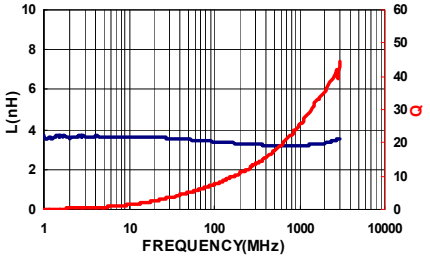
RDC<0.25Ω SRF:8900MHz IDC:450 mA

CHQ0603T-3N2B-HU



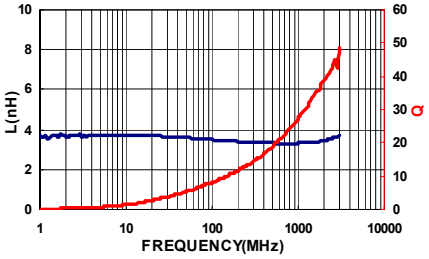
RDC<0.28Ω SRF:8700MHz IDC:415 mA

CHQ0603T-3N3B-HU



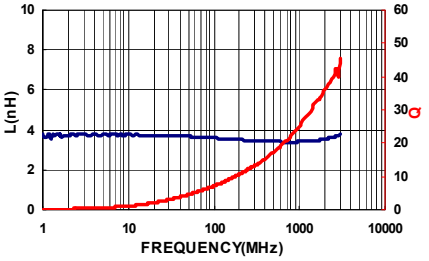
RDC<0.28Ω SRF:8600MHz IDC:415 mA

CHQ0603T-3N4B-HU



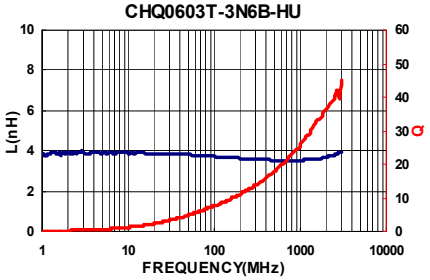
RDC<0.29Ω SRF:8400MHz IDC:410 mA

CHQ0603T-3N5B-HU



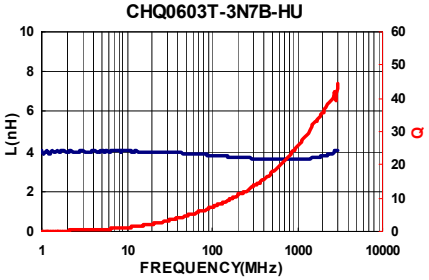
RDC<0.3Ω SRF:8200MHz IDC:405 mA

CHQ0603T-3N6B-HU



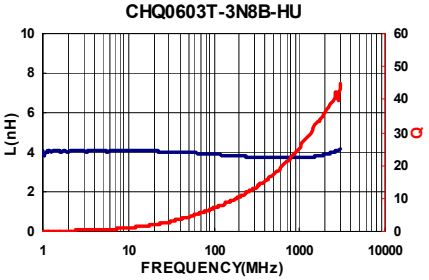
RDC<0.32Ω SRF:8100MHz IDC:400 mA

CHQ0603T-3N7B-HU



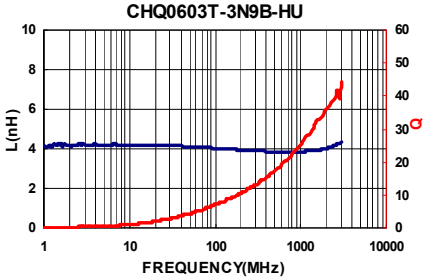
RDC<0.36Ω SRF:8000MHz IDC:370 mA

CHQ0603T-3N8B-HU



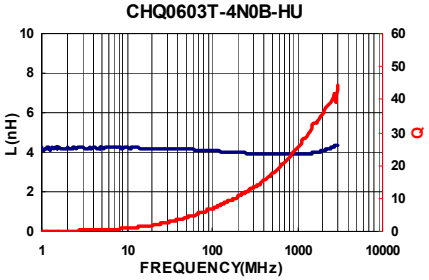
RDC<0.4Ω SRF:7800MHz IDC:355 mA

CHQ0603T-3N9B-HU



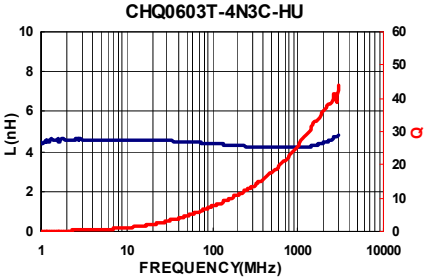
RDC<0.41Ω SRF:7700MHz IDC:350 mA

CHQ0603T-4N0B-HU



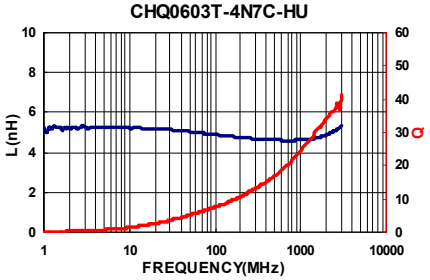
RDC<0.44Ω SRF:7600MHz IDC:335 mA

CHQ0603T-4N3C-HU



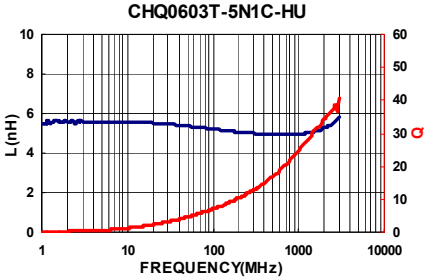
RDC<0.48Ω SRF:6500MHz IDC:320 mA

CHQ0603T-4N7C-HU



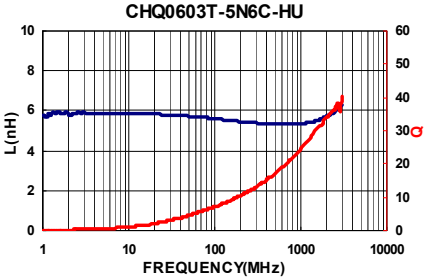
RDC<0.42Ω SRF:6400MHz IDC:350 mA

CHQ0603T-5N1C-HU



RDC<0.45Ω SRF:6100MHz IDC:330 mA

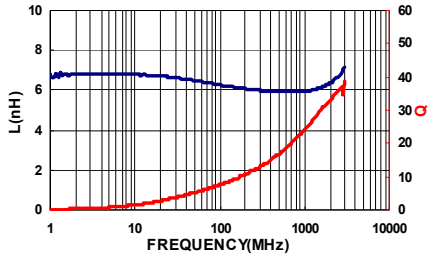
CHQ0603T-5N6C-HU



RDC<0.47Ω SRF:5500MHz IDC:325 mA

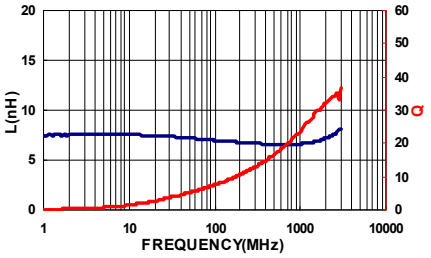
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CHQ0603T-6N2C-HU



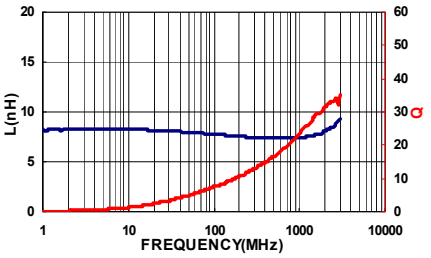
RDC<0.52Ω SRF:5100MHz IDC:305 mA

CHQ0603T-6N8H-HU



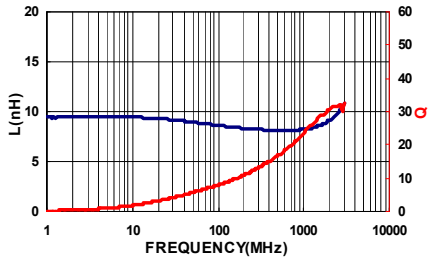
RDC<0.55Ω SRF:4800MHz IDC:305 mA

CHQ0603T-7N5H-HU



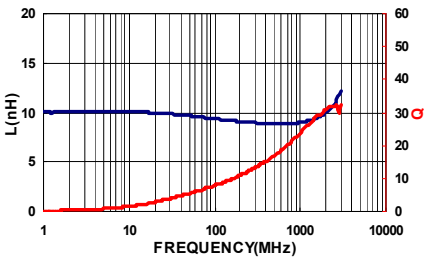
RDC<0.55Ω SRF:4600MHz IDC:305 mA

CHQ0603T-8N2H-HU



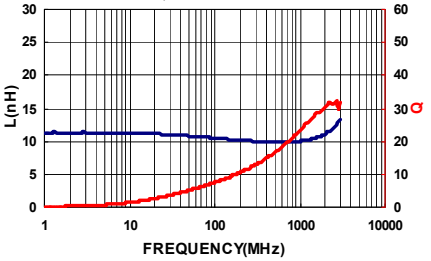
RDC<0.57Ω SRF:4300MHz IDC:290 mA

CHQ0603T-9N1H-HU



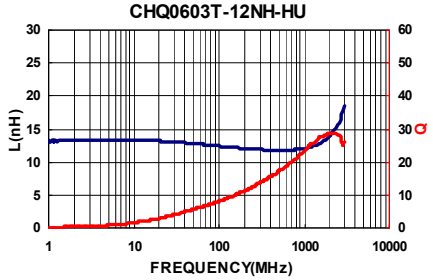
RDC<0.65Ω SRF:4000MHz IDC:270 mA

CHQ0603T-10NH-HU



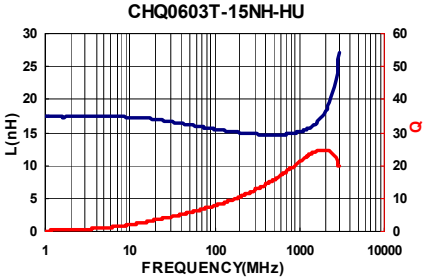
RDC<0.85Ω SRF:3800MHz IDC:230 mA

CHQ0603T-12NH-HU



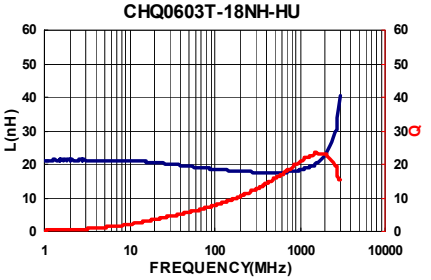
RDC<0.85Ω SRF:3300MHz IDC:230 mA

CHQ0603T-15NH-HU



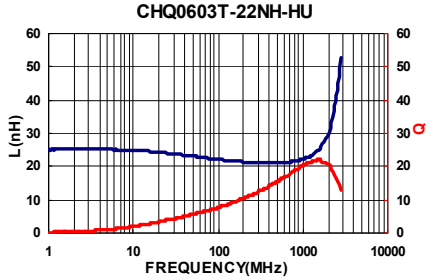
RDC<0.89Ω SRF:2600MHz IDC:220 mA

CHQ0603T-18NH-HU



RDC<1.05Ω SRF:2300MHz IDC:205 mA

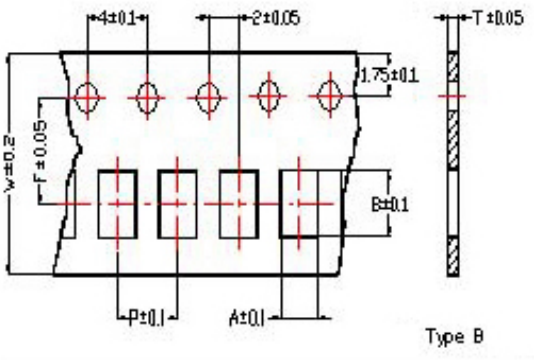
CHQ0603T-22NH-HU



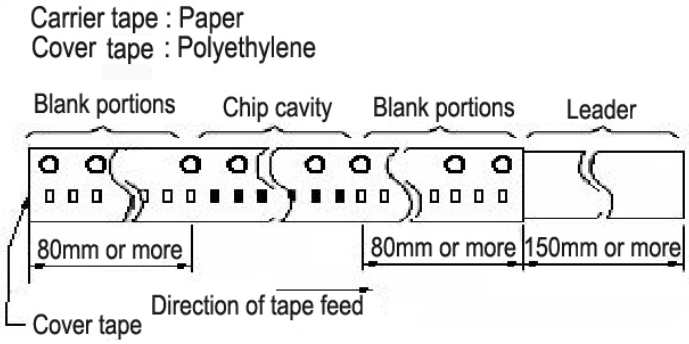
RDC<1.29Ω SRF:1900MHz IDC:190 mA

Packaging Specifications

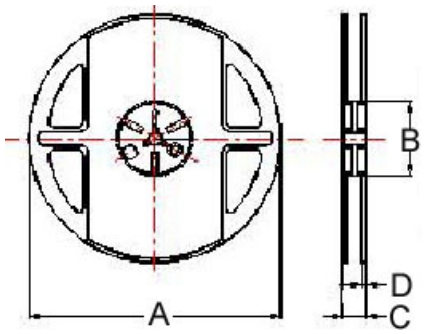
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions						Reel Dimensions				Quantity
	A	B	T	W	P	F	A	B	C	D	PCS / Reel
CHQ0603	0.37	0.67	0.50	8	2	3.5	180	60	13	1.5	15000

CLH Series

The CLH Series is a type of ceramic chip inductor produced using the multilayer technology. The series provides excellent Q factor and SRF characteristics and is suitable for high frequency applications.

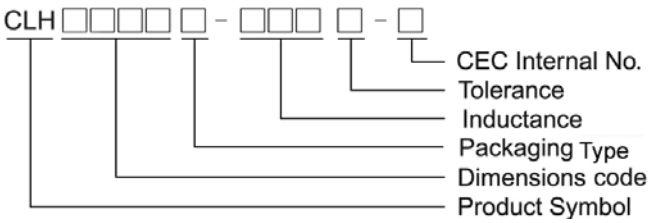
Features

- RoHS compliant
- Excellent Q factor and SRF characteristics
- Small size of 1005/1608 is suitable for small portable devices
- Supports operating frequency up to 6GHz with nominal inductance values from 1.0nH to 470nH.

Applications

- RF resonance and impedance matching circuit
- RF and wireless communication
- Information technology equipment, computers, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, PDAs, keyless remote systems
- L-C filter configurations

Product Identification

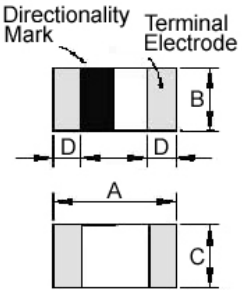


- Packing Type: T: Taping B: Bulk
- Product series identification:

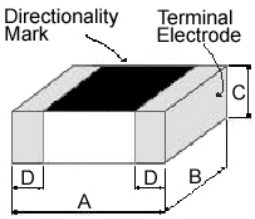
CLH0603-F: Top side half mark.
CLH1005-S: Top side full mark. CLH1005-H: Top side half mark.
CLH1608-S: Top side full mark. CLH1608-H: Top side half mark.
CLH2012-S: White

Shape and Dimensions

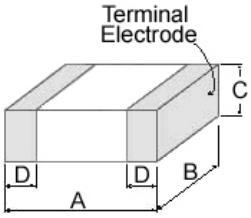
CLH0603-F Series
CLH1005-H Series
CLH1608-H Series



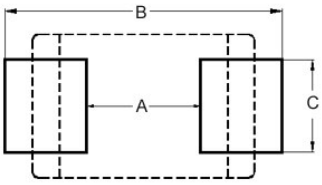
CLH1005-S Series
CLH1608-S Series



CLH2012-S Series



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
0603	0.6±0.03	0.3±0.03	0.3±0.03	0.15±0.05
1005	1.0±0.10	0.5±0.10	0.5±0.10	0.25±0.10
1608	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
2012 < 390 nH	2.0±0.2	1.25±0.2	0.9±0.2	0.5±0.3
2012 ≧ 390 nH	2.0±0.2	1.25±0.2	1.2±0.2	0.5±0.3

Dimensions in mm

TYPE	A	B	C
CLH0603	0.3	0.75 ~ 1.05	0.3
CLH1005	0.4	1.2 ~ 1.4	0.5
CLH1608	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
CLH2012	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2

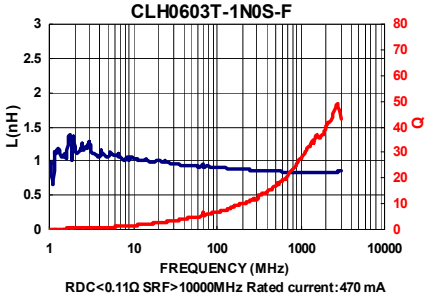
Electrical Characteristics

Part Number	Inductance (nH) at 100MHz	Tolerance (±%)	Q Min at 100MHz	SRF (MHz) Min	DC Resistance (Ω) Max	Rated Current (mA) Max
CLH0603T-1N0□-F	1.0	±0.3nH	4	>10000	0.11	470
CLH0603T-1N2□-F	1.2	±0.3nH	4	>10000	0.12	450
CLH0603T-1N5□-F	1.5	±0.3nH	4	>10000	0.13	430
CLH0603T-1N8□-F	1.8	±0.3nH	4	>10000	0.16	390
CLH0603T-2N0□-F	2.0	±0.3nH	4	>10000	0.17	380
CLH0603T-2N2□-F	2.2	±0.3nH	4	8800	0.19	360
CLH0603T-2N4□-F	2.4	±0.3nH	4	8300	0.20	350
CLH0603T-2N7□-F	2.7	±0.3nH	4	7700	0.21	340
CLH0603T-3N0□-F	3.0	±0.3nH	4	7200	0.22	330
CLH0603T-3N3□-F	3.3	±0.3nH	4	6700	0.23	320
CLH0603T-3N6□-F	3.6	±0.3nH	4	6400	0.25	310
CLH0603T-3N9□-F	3.9	±0.3nH	4	6000	0.27	300
CLH0603T-4N3□-F	4.3	±0.3nH	4	5700	0.30	280
CLH0603T-4N7□-F	4.7	±0.3nH	4	5300	0.30	280
CLH0603T-5N1□-F	5.1	±0.3nH	4	5000	0.33	270
CLH0603T-5N6□-F	5.6	±0.3nH	4	4600	0.36	260
CLH0603T-6N2□-F	6.2	±0.3nH	4	4200	0.38	250
CLH0603T-6N8□-F	6.8	5	4	3900	0.39	250
CLH0603T-7N5□-F	7.5	5	4	3600	0.41	240
CLH0603T-8N2□-F	8.2	5	4	3400	0.45	230
CLH0603T-9N1□-F	9.1	5	4	3200	0.48	220
CLH0603T-10N□-F	10	5	4	2900	0.51	220
CLH0603T-12N□-F	12	5	4	2700	0.68	190
CLH0603T-15N□-F	15	5	4	2300	0.71	180
CLH0603T-18N□-F	18	5	4	2100	0.81	170
CLH0603T-22N□-F	22	5	4	1800	1.00	150
CLH0603T-27N□-F	27	5	4	1800	1.35	120
CLH0603T-33N□-F	33	5	4	1700	1.47	110
CLH0603T-39N□-F	39	5	4	1500	1.72	100
CLH0603T-47N□-F	47	5	4	1300	1.90	100
CLH0603T-56N□-F	56	5	4	1100	2.27	80
CLH0603T-68N□-F	68	5	4	1100	2.66	80
CLH0603T-82N□-F	82	5	4	1000	3.37	70
CLH0603T-R10□-F	100	5	4	900	3.74	60

- Tolerance：S = ± 0.3 nH；J = ± 5%
- Test Instruments： L/Q ： Agilent E4991A + Fixture：Agilent 16197A
  SRF： Agilent E4991A / HP19196C
  RDC： HP4338B/ CH502BC

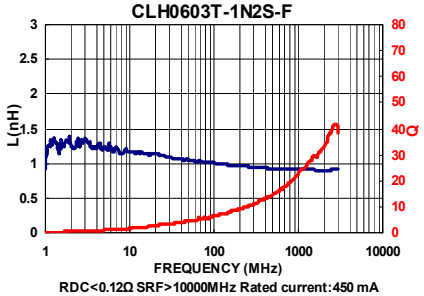
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH0603T-1N0S-F



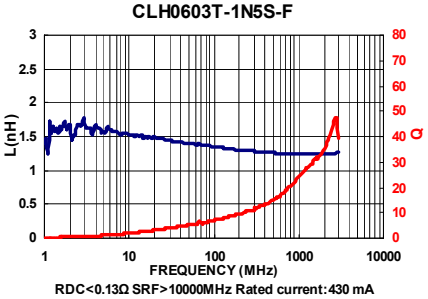
RDC<0.11Ω SRF>10000MHz Rated current:470 mA

CLH0603T-1N2S-F



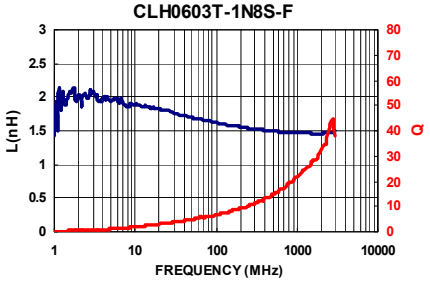
RDC<0.12Ω SRF>10000MHz Rated current:450 mA

CLH0603T-1N5S-F



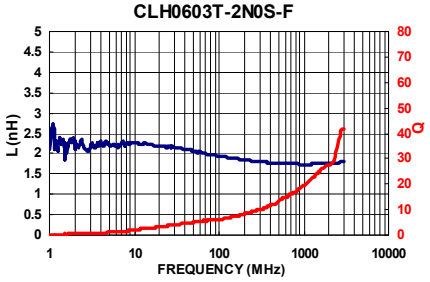
RDC<0.13Ω SRF>10000MHz Rated current:430 mA

CLH0603T-1N8S-F



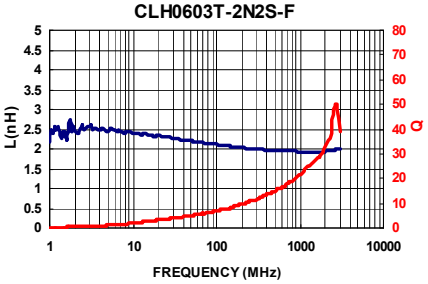
RDC<0.16Ω SRF>10000MHz Rated current:390 mA

CLH0603T-2N0S-F



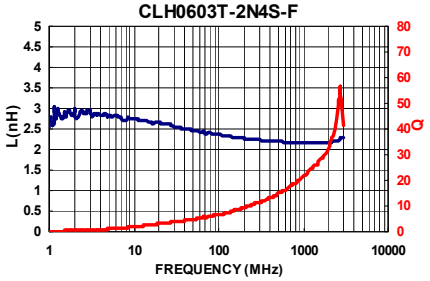
RDC<0.11Ω SRF>10000MHz Rated current:470 mA

CLH0603T-2N2S-F



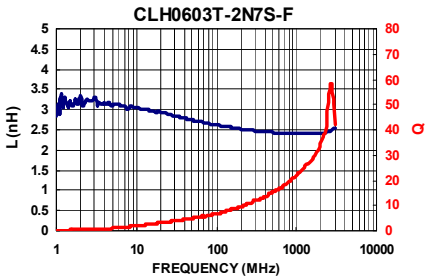
RDC<0.19Ω SRF>8800MHz Rated current:360 mA

CLH0603T-2N4S-F



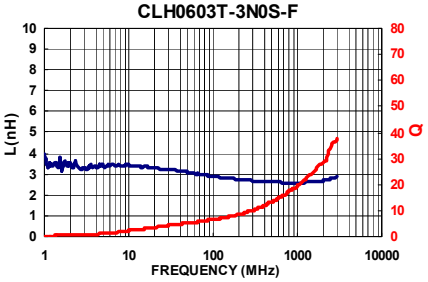
RDC<0.2Ω SRF>8300MHz Rated current:350 mA

CLH0603T-2N7S-F



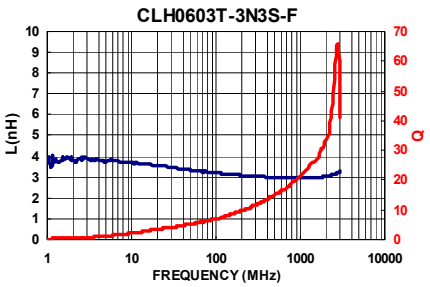
RDC<0.21Ω SRF>7700MHz Rated current:340 mA

CLH0603T-3N0S-F



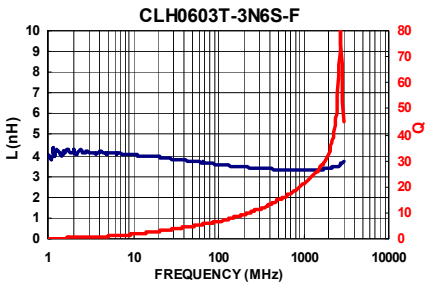
RDC<0.22Ω SRF>7200MHz Rated current:330 mA

CLH0603T-3N3S-F



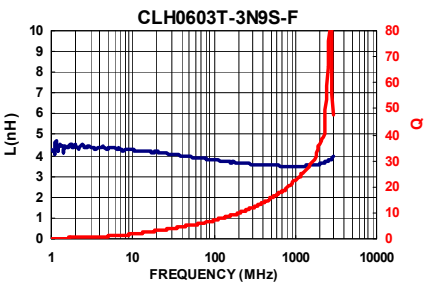
RDC<0.23Ω SRF>6700MHz Rated current:320 mA

CLH0603T-3N6S-F



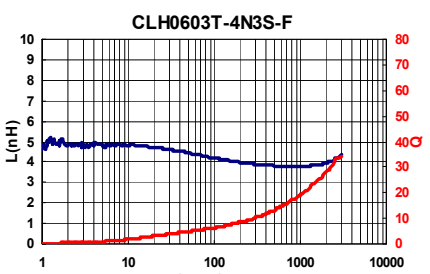
RDC<0.25Ω SRF>6400MHz Rated current:310 mA

CLH0603T-3N9S-F



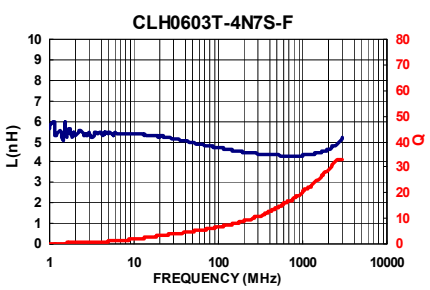
RDC<0.27Ω SRF>6000MHz Rated current:300 mA

CLH0603T-4N3S-F



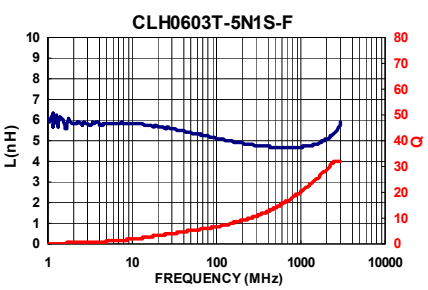
RDC<0.3Ω SRF>5700MHz Rated current:280 mA

CLH0603T-4N7S-F



RDC<0.3Ω SRF>5300MHz Rated current:280 mA

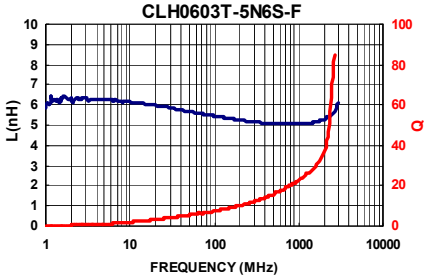
CLH0603T-5N1S-F



RDC<0.33Ω SRF>5000MHz Rated current:270 mA

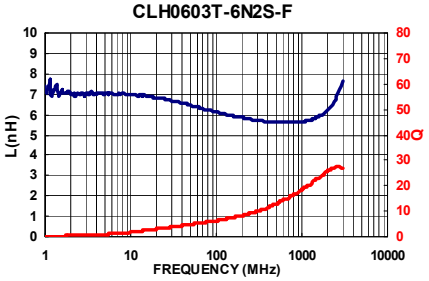
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH0603T-5N6S-F



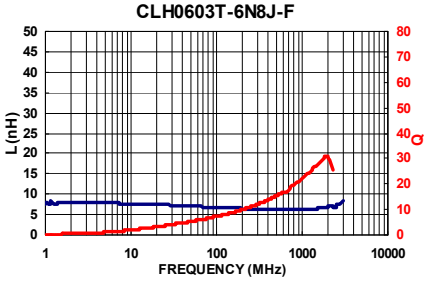
RDC<0.36Ω SRF>4600MHz Rated current:260 mA

CLH0603T-6N2S-F



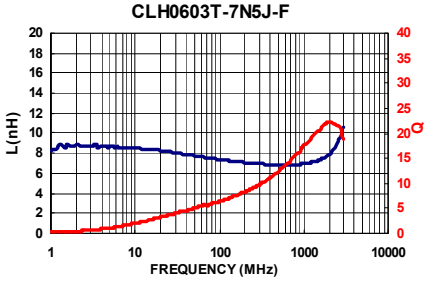
RDC<0.38Ω SRF>4200MHz Rated current:250 mA

CLH0603T-6N8J-F



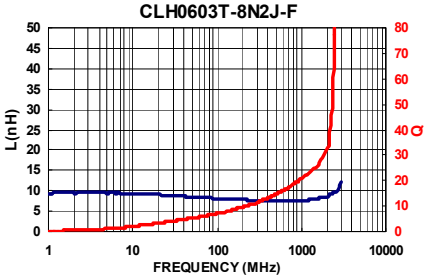
RDC<0.39Ω SRF>3900MHz Rated current:250 mA

CLH0603T-7N5J-F



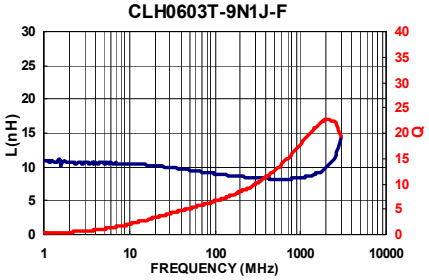
RDC<0.41Ω SRF>3600MHz Rated current:240 mA

CLH0603T-8N2J-F



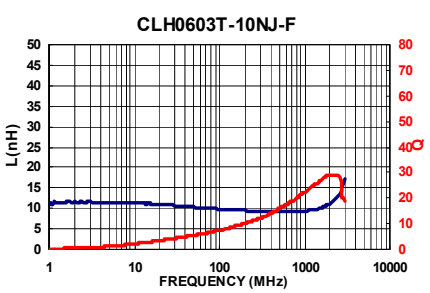
RDC<0.45Ω SRF>3400MHz Rated current:230 mA

CLH0603T-9N1J-F



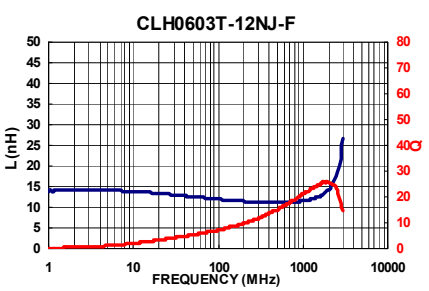
RDC<0.48Ω SRF>3200MHz Rated current:220 mA

CLH0603T-10NJ-F



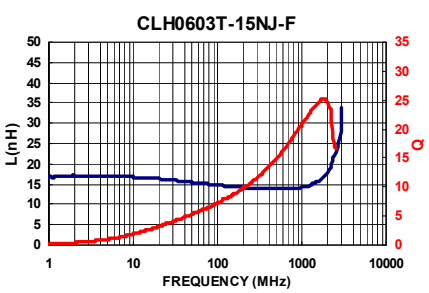
RDC<0.51Ω SRF>2900MHz Rated current:220 mA

CLH0603T-12NJ-F



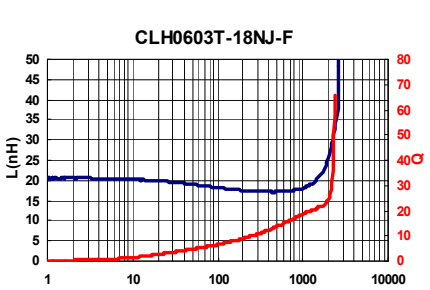
RDC<0.68Ω SRF>2700MHz Rated current:190 mA

CLH0603T-15NJ-F



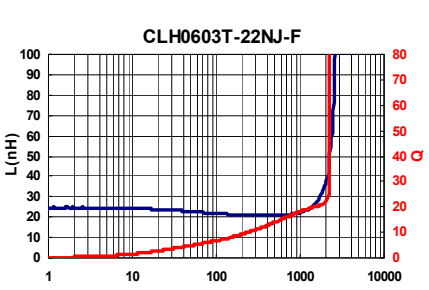
RDC<0.71Ω SRF>2300MHz Rated current:180 mA

CLH0603T-18NJ-F



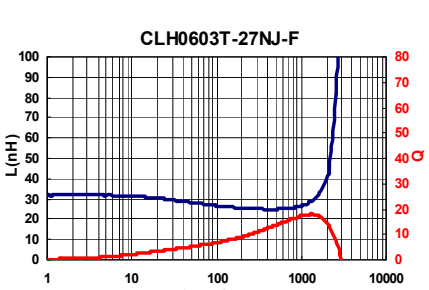
RDC<0.81Ω SRF>2100MHz Rated current:170 mA

CLH0603T-22NJ-F



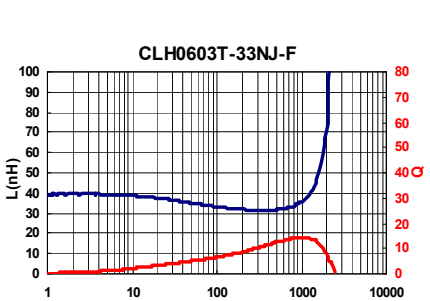
RDC<1.0Ω SRF>1800MHz Rated current:150 mA

CLH0603T-27NJ-F



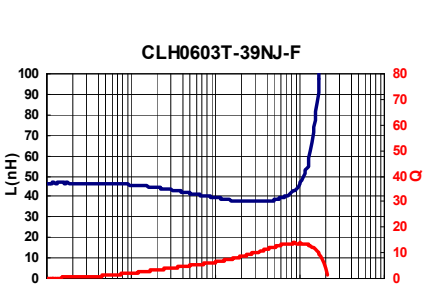
RDC<1.35Ω SRF>1800MHz Rated current:120 mA

CLH0603T-33NJ-F



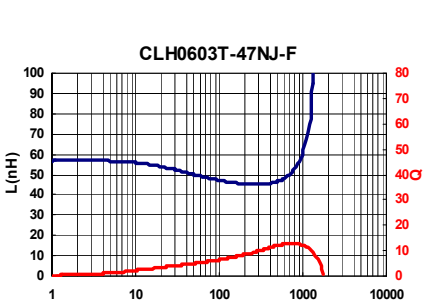
RDC<1.47Ω SRF>1700MHz Rated current:110 mA

CLH0603T-39NJ-F



RDC<1.72Ω SRF>1500MHz Rated current:100 mA

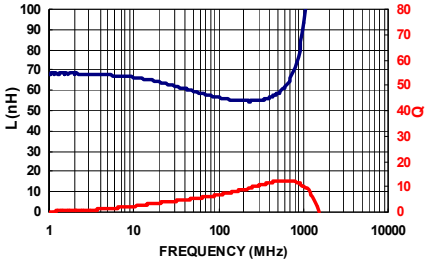
CLH0603T-47NJ-F



RDC<1.9Ω SRF>1300MHz Rated current:100 mA

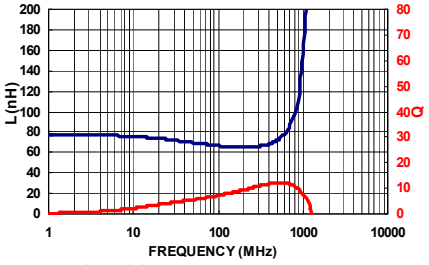
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH0603T-56NJ-F



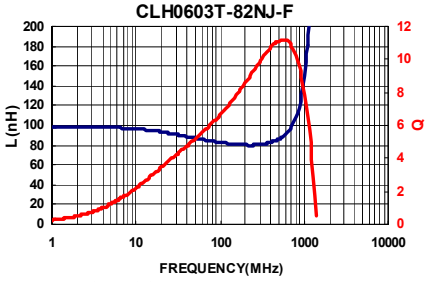
RDC<2.27Ω SRF>1100MHz Rated current:80 mA

CLH0603T-68NJ-F



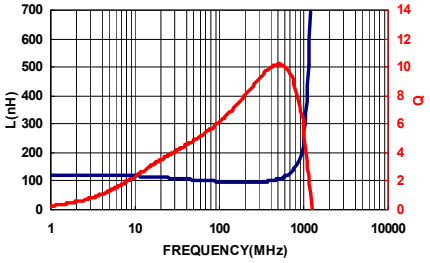
RDC<2.66Ω SRF>1100MHz Rated current:80 mA

CLH0603T-82NJ-F



RDC<3.37Ω SRF>1000MHz Rated current:70 mA

CLH0603T-R10J-F



RDC<3.74Ω SRF>900MHz Rated current:60 mA

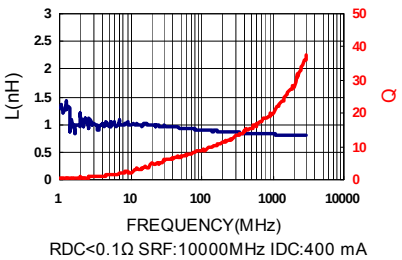
Electrical Characteristics

Part Number	Inductance (nH) at 100MHz	Tolerance (±%)	Q Min at 100MHz	SRF (MHz) Typ.	DC Resistance (Ω) Max	IDC (mA) Max
CLH1005T-1N0□-S	1.0	±0.3nH	8	10000	0.10	400
CLH1005T-1N2□-S	1.2	±0.3nH	8	10000	0.10	400
CLH1005T-1N5□-S	1.5	±0.3nH	8	9000	0.10	400
CLH1005T-1N8□-S	1.8	±0.3nH	8	8700	0.10	400
CLH1005T-2N0□-S	2.0	±0.3nH	8	8100	0.15	400
CLH1005T-2N2□-S	2.2	±0.3nH	8	8100	0.15	400
CLH1005T-2N4□-S	2.4	±0.3nH	8	7700	0.15	400
CLH1005T-2N7□-S	2.7	±0.3nH	8	7700	0.15	400
CLH1005T-3N0□-S	3.0	±0.3nH	8	6300	0.15	400
CLH1005T-3N3□-S	3.3	±0.3nH/10	8	6300	0.15	400
CLH1005T-3N6□-S	3.6	±0.3nH/10	8	6100	0.15	400
CLH1005T-3N9□-S	3.9	±0.3nH/10	8	6100	0.20	400
CLH1005T-4N3□-S	4.3	±0.3nH/10	8	5400	0.20	400
CLH1005T-4N7□-S	4.7	±0.3nH/10	8	5400	0.20	400
CLH1005T-5N6□-S	5.6	±0.3nH/10	8	5100	0.20	400
CLH1005T-6N8□-S	6.8	5 / 10	8	4550	0.25	400
CLH1005T-8N2□-S	8.2	5 / 10	8	4100	0.30	300
CLH1005T-10N□-S	10	5 / 10	8	3900	0.35	300
CLH1005T-12N□-S	12	5 / 10	8	3000	0.40	300
CLH1005T-15N□-S	15	5 / 10	8	2800	0.50	300
CLH1005T-18N□-S	18	5 / 10	8	2500	0.55	300
CLH1005T-22N□-S	22	5 / 10	8	2200	0.70	300
CLH1005T-27N□-S	27	5 / 10	8	2000	0.80	300
CLH1005T-33N□-S	33	5 / 10	8	1800	0.9	200
CLH1005T-39N□-S	39	5 / 10	8	1600	1.0	150
CLH1005T-47N□-S	47	5 / 10	8	1400	1.2	150
CLH1005T-56N□-S	56	5 / 10	8	1300	1.3	150
CLH1005T-68N□-S	68	5 / 10	8	1100	1.5	100
CLH1005T-82N□-S	82	5 / 10	8	1000	1.6	100
CLH1005T-R10□-S	100	5 / 10	8	900	2.0	100

- Tolerance：S = ± 0.3nH , J = ± 5% , K = ± 10%
- Test Instruments： L/Q：Agilent E4991A + Fixture：Agilent 16197A
  SRF：HP8753D
  RDC：HP4338B/ CH502BC

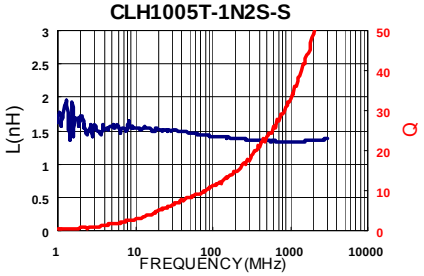
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH1005T-1N0S-S



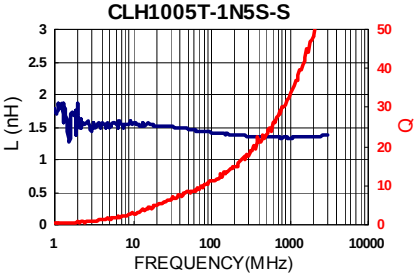
RDC<0.1Ω SRF:10000MHz IDC:400 mA

CLH1005T-1N2S-S



RDC<0.1Ω SER:10000MHz IDC:400mA

CLH1005T-1N5S-S

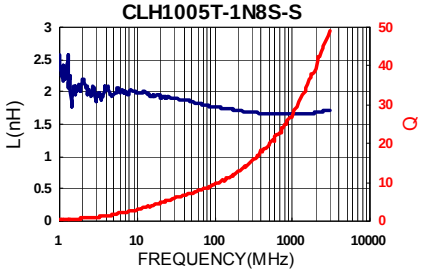


RDC<0.1Ω SRF:9000MHz IDC:400mA

CHILISIN ELECTRONICS CORP.

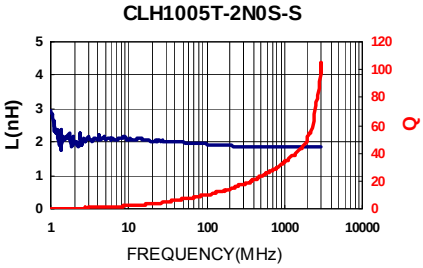
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH1005T-1N8S-S



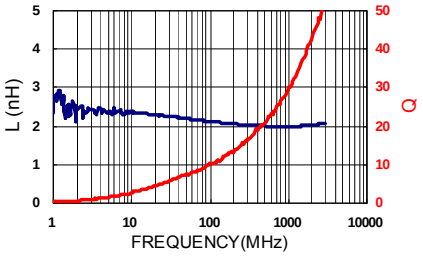
RDC<0.1Ω SRF:8700MHz IDC:400mA

CLH1005T-2N0S-S



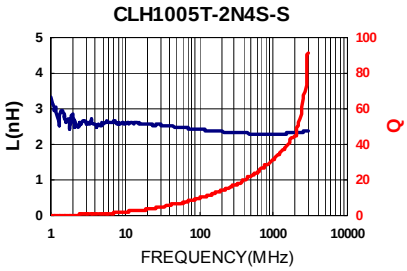
RDC<0.15 Ω SRF:8100MHz IDC:400 mA

CLH1005T-2N2S-S



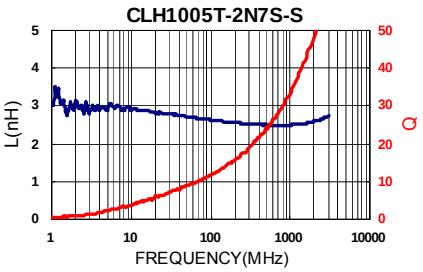
RDC<0.15Ω SRF:8100MHz IDC:400mA

CLH1005T-2N4S-S



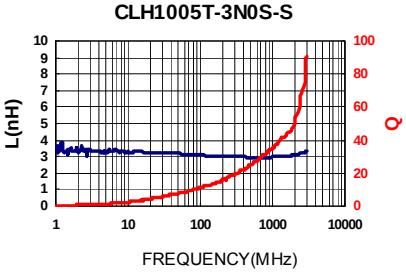
RDC<0.15Ω SRF:7700MHz IDC:400 mA

CLH1005T-2N7S-S



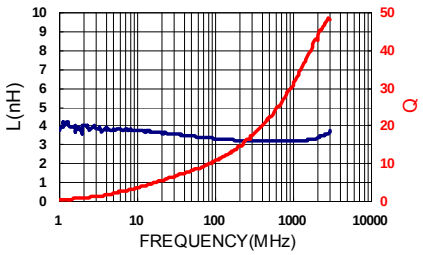
RDC<0.15Ω SRF:7700MHz IDC:400mA

CLH1005T-3N0S-S



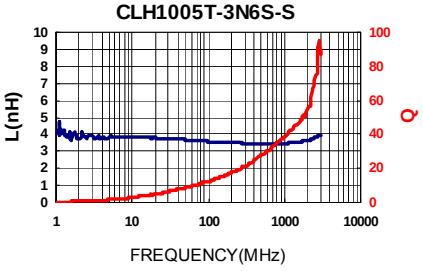
RDC<0.15 Ω SRF:6300MHz IDC:400 mA

CLH1005T-3N3S-S



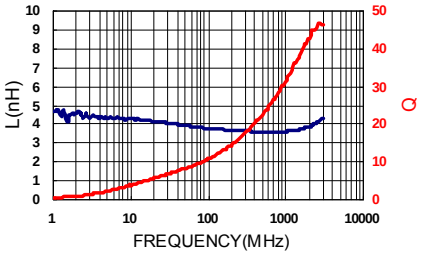
RDC<0.15Ω SRF:6300MHz IDC:400mA

CLH1005T-3N6S-S



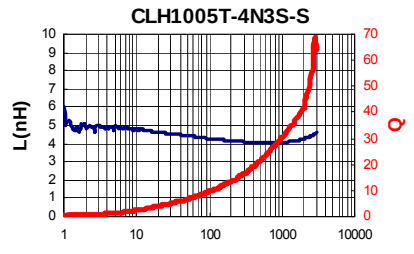
RDC<0.15Ω SRF:6100MHz IDC:400 mA

CLH1005T-3N9S-S



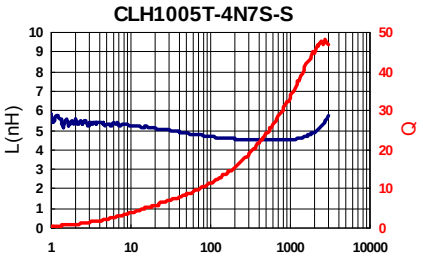
RDC<0.2Ω SRF:6100MHz IDC:400mA

CLH1005T-4N3S-S



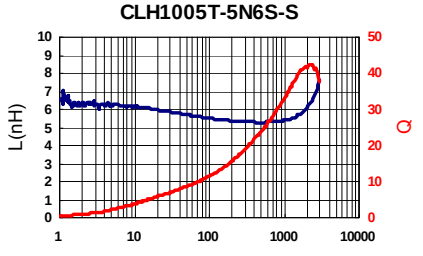
RDC<2.2 Ω SRF:5400MHz IDC:400 mA

CLH1005T-4N7S-S



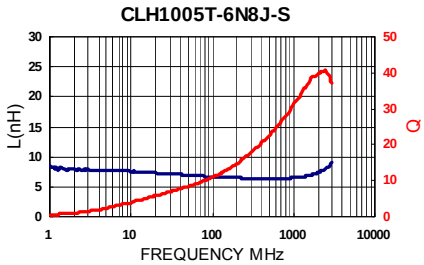
RDC<0.2Ω SRF:5400MHz IDC:400mA

CLH1005T-5N6S-S



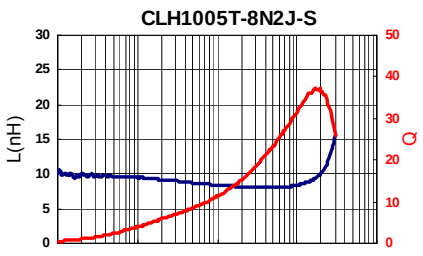
RDC<0.2Ω SRF:5100MHz IDC:400mA

CLH1005T-6N8J-S



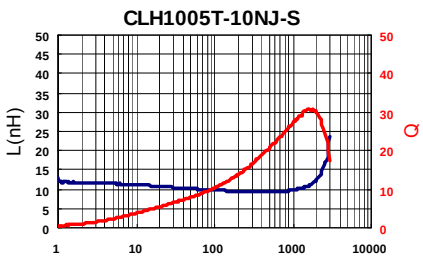
RDC<0.25Ω SRF:4550MHz IDC:400mA

CLH1005T-8N2J-S



RDC<0.3Ω SRF:4100MHz IDC:300mA

CLH1005T-10NJ-S

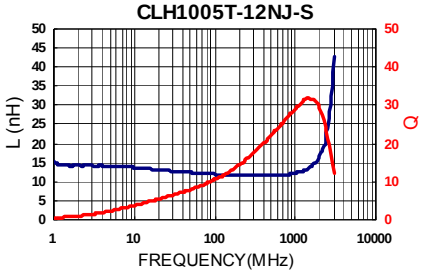


RDC<0.35Ω SRF:3900MHz IDC:300mA

CHILISIN ELECTRONICS CORP.

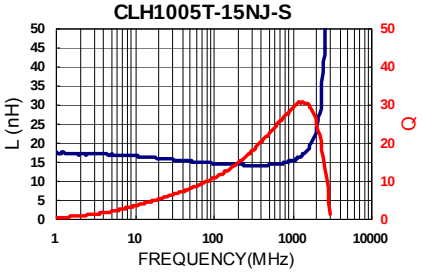
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH1005T-12NJ-S



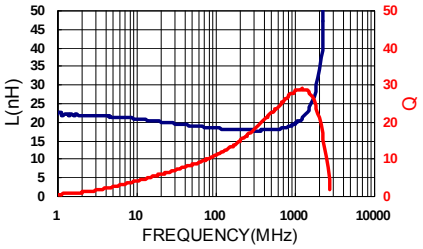
RDC<0.4Ω SRF:3000MHz IDC:300mA

CLH1005T-15NJ-S



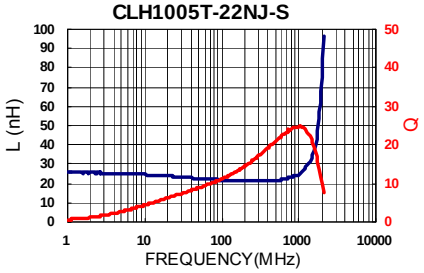
RDC<0.5Ω SRF:2800MHz IDC:300mA

CLH1005T-18NJ-S



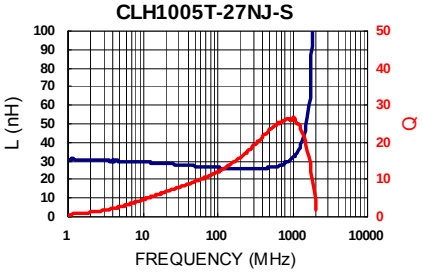
RDC<0.55Ω SRF:2500MHz IDC:300mA

CLH1005T-22NJ-S



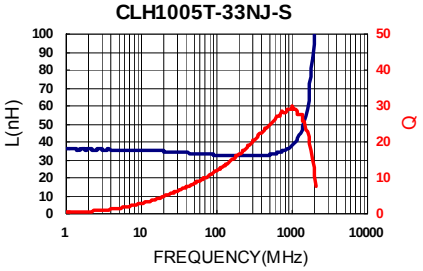
RDC<0.7Ω SRF:2200MHz IDC:300mA

CLH1005T-27NJ-S



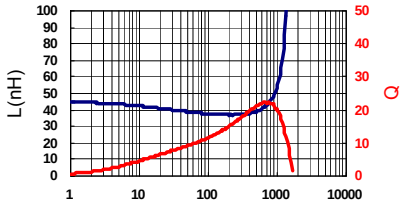
RDC<0.8Ω SRF:2000MHz IDC:300mA

CLH1005T-33NJ-S



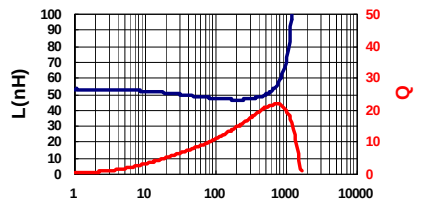
RDC<0.9Ω SRF:1800MHz IDC:200mA

CLH1005T-39NJ-S



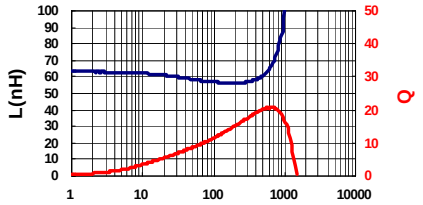
RDC<1.0Ω SRF:1600MHz IDC:150mA

CLH1005T-47NJ-S



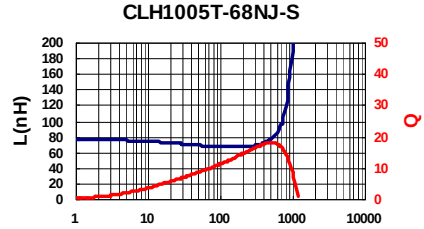
RDC:1.2Ω SRF:1400MHz IDC:150mA

CLH1005T-56NJ-S



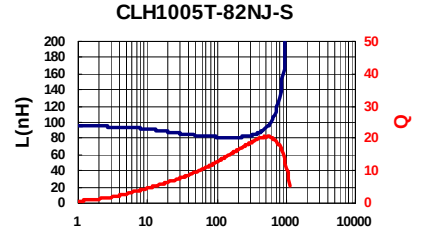
RDC<1.3Ω SRF:1300MHz IDC:150mA

CLH1005T-68NJ-S



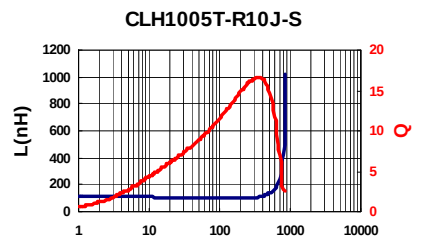
RDC<1.5Ω SRF:1100MHz IDC:100mA

CLH1005T-82NJ-S



RDC<1.6Ω SRF:1000MHz IDC:100mA

CLH1005T-R10J-S



RDC<2.0 Ω SRF:900MHz IDC:100 mA

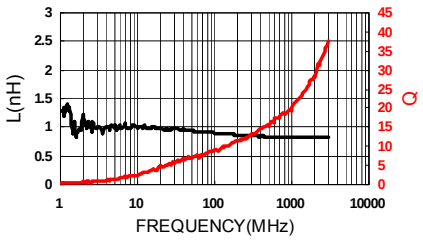
Electrical Characteristics

Part Number	Inductance (nH) at 100MHz	Tolerance (±%)	Q Min at 100MHz	SRF (MHz) Typ.	DC Resistance (Ω) Max	IDC (mA) Max
CLH1005T-1N0□-H	1.0	±0.3nH	8	10000	0.10	400
CLH1005T-1N2□-H	1.2	±0.3nH	8	10000	0.10	400
CLH1005T-1N5□-H	1.5	±0.3nH	8	9000	0.10	400
CLH1005T-1N8□-H	1.8	±0.3nH	8	8700	0.10	400
CLH1005T-2N2□-H	2.2	±0.3nH	8	8100	0.15	400
CLH1005T-2N7□-H	2.7	±0.3nH	8	7700	0.15	400
CLH1005T-3N0□-H	3.0	±0.3nH	8	6300	0.15	400
CLH1005T-3N3□-H	3.3	±0.3nH/10	8	6300	0.15	400
CLH1005T-3N9□-H	3.9	±0.3nH/10	8	6100	0.20	400
CLH1005T-4N7□-H	4.7	±0.3nH/10	8	5400	0.20	400
CLH1005T-5N6□-H	5.6	±0.3nH/10	8	5100	0.20	400
CLH1005T-6N8□-H	6.8	5 / 10	8	4550	0.25	400
CLH1005T-8N2□-H	8.2	5 / 10	8	4100	0.30	300
CLH1005T-10N□-H	10	5 / 10	8	3900	0.35	300
CLH1005T-12N□-H	12	5 / 10	8	3000	0.40	300
CLH1005T-15N□-H	15	5 / 10	8	2800	0.50	300
CLH1005T-18N□-H	18	5 / 10	8	2500	0.55	300
CLH1005T-22N□-H	22	5 / 10	8	2200	0.70	300
CLH1005T-27N□-H	27	5 / 10	8	2000	0.80	300
CLH1005T-33N□-H	33	5 / 10	8	1800	0.9	200
CLH1005T-39N□-H	39	5 / 10	8	1600	1.0	150
CLH1005T-47N□-H	47	5 / 10	8	1400	1.2	150
CLH1005T-56N□-H	56	5 / 10	8	1300	1.3	150
CLH1005T-68N□-H	68	5 / 10	8	1100	1.5	100
CLH1005T-82N□-H	82	5 / 10	8	1000	1.6	100
CLH1005T-R10□-H	100	5 / 10	8	900	2.0	100
CLH1005T-R12□-H	120	5 / 10	8	800	2.2	100
CLH1005T-R15□-H	150	5 / 10	8	700	3.5	100
CLH1005T-R18□-H	180	5 / 10	8	600	3.8	100
CLH1005T-R22□-H	220	5 / 10	8	500	4.2	100
CLH1005T-R27□-H	270	5 / 10	8	500	4.8	100

- Tolerance：S = ± 0.3nH , J = ± 5% , K = ± 10%
- Test Instruments： L/Q：Agilent E4991A + Fixture：Agilent 16197A
  SRF：HP8753D
  RDC：HP4338B/ CH502BC

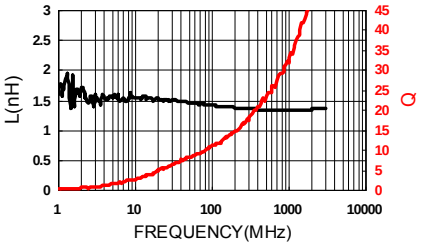
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH1005T-1N0S-H



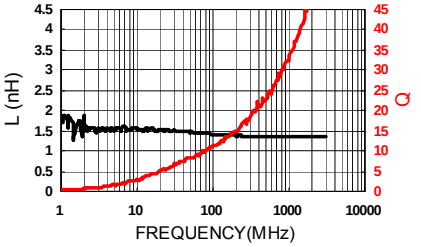
RDC<0.1Ω SRF:10000MHZ IDC:400mA

CLH1005T-1N2S-H



RDC<0.1Ω SRF:1000MHZ IDC:400mA

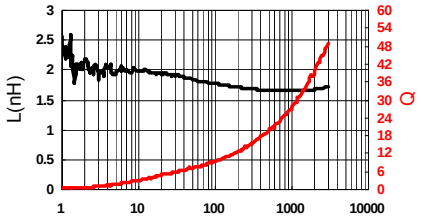
CLH1005T-1N5S-H



RDC<0.1Ω SRF:9000MHZ IDC:400mA

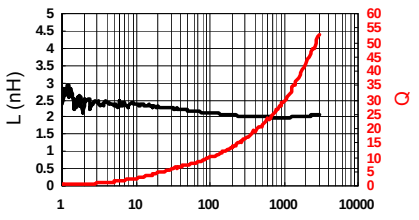
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH1005T-1N8S-H



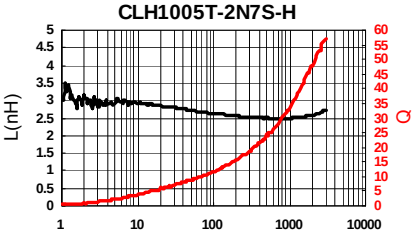
RDC<0.10Ω SRF:8700MHZ IDC:400mA

CLH1005T-2N2S-H



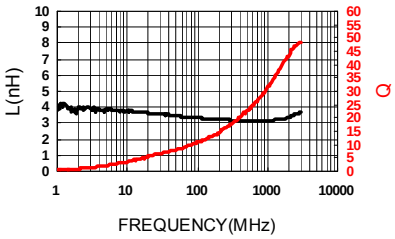
RDC<0.15Ω SRF:8100MHZ IDC:400mA

CLH1005T-2N7S-H



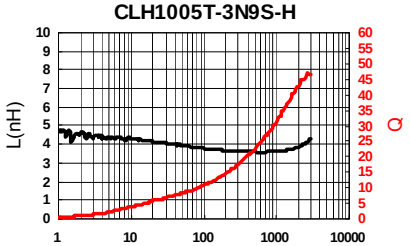
RDC<0.15Ω SRF:7700MHZ IDC:400mA

CLH1005T-3N3S-H



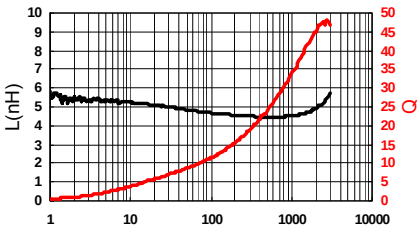
RDC<0.15Ω SRF:6300MHZ IDC:400mA

CLH1005T-3N9S-H



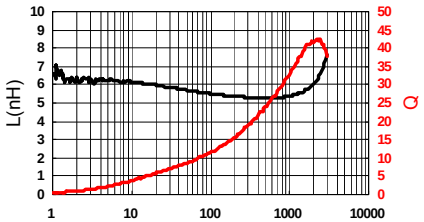
RDC<0.2Ω SRF:6100MHZ IDC:400mA

CLH1005T-4N7S-H



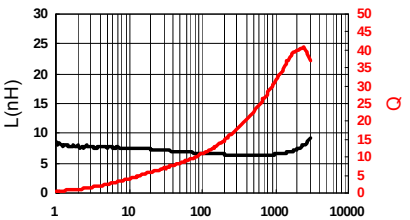
RDC<0.2Ω SRF:5400MHZ IDC:400mA

CLH1005T-5N6S-H



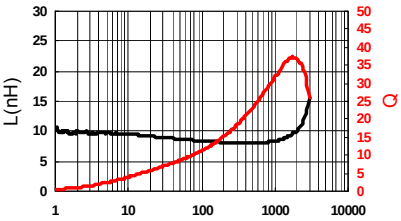
RDC<0.20Ω SRF:5100MHZ IDC:400mA

CLH1005T-6N8J-H



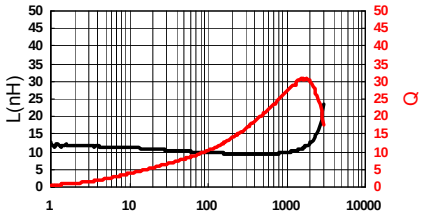
RDC<0.25Ω SRF:4550MHZ IDC:400mA

CLH1005T-8N2J-H



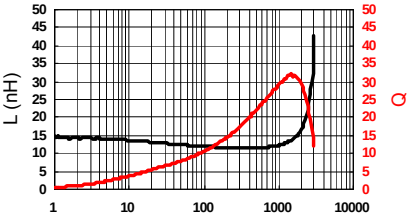
RDC<0.3Ω SRF:4100MHZ IDC:300mA

CLH1005T-10NJ-H



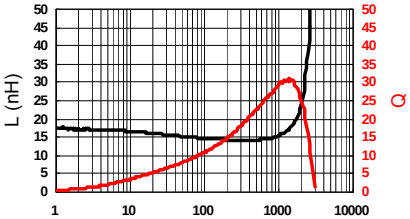
RDC<0.35Ω SRF:3900MHZ IDC:300mA

CLH1005T-12NJ-H



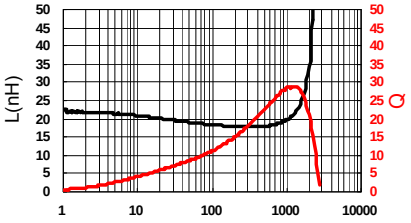
RDC<0.4Ω SRF:3000MHZ IDC:300mA

CLH1005T-15NJ-H



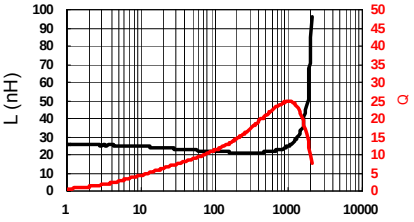
RDC<0.5Ω SRF:2800MHZ IDC:300mA

CLH1005T-18NJ-H



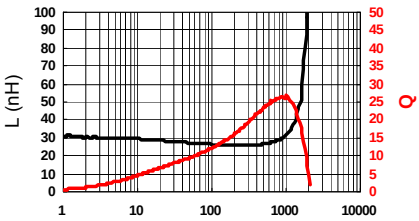
RDC<0.55Ω SRF:2500MHZ IDC:300mA

CLH1005T-22NJ-H



RDC<0.7Ω SRF:2200MHZ IDC:300mA

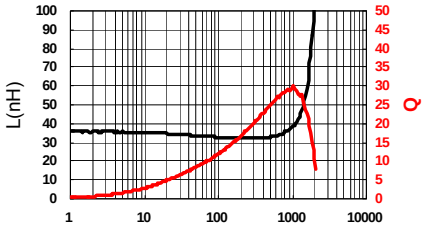
CLH1005T-27NJ-H



RDC<0.8Ω SRF:2000MHZ IDC:300mA

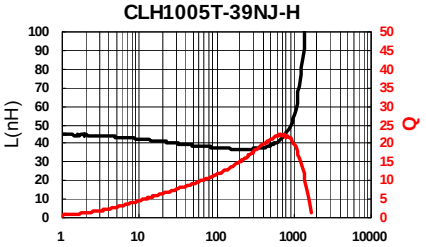
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH1005T-33NJ-H



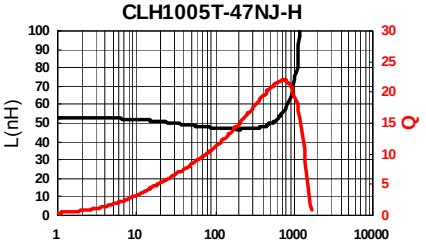
RDC<0.9Ω SRF:1800MHZ IDC:200mA

CLH1005T-39NJ-H



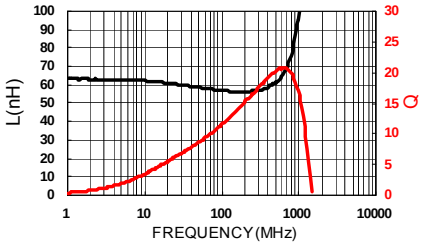
RDC<1 Ω SRF:1600MHZ IDC:150mA

CLH1005T-47NJ-H



RDC<1.2Ω SRF:1400MHZ IDC:150mA

CLH1005T-56NJ-H



RDC<1.3Ω SRF:1300MHZ IDC:150mA

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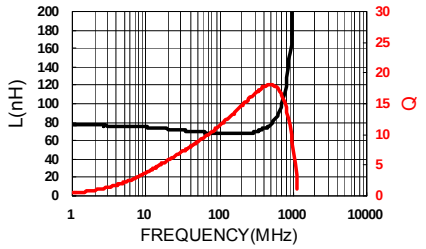
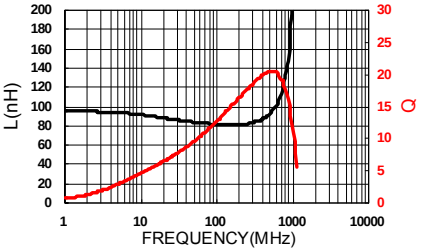


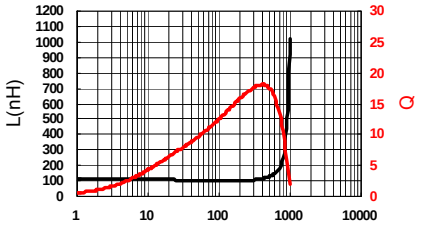
RDC<1.5Ω SRF:1100MHZ IDC:100mA

CLH1005T-82NJ-H



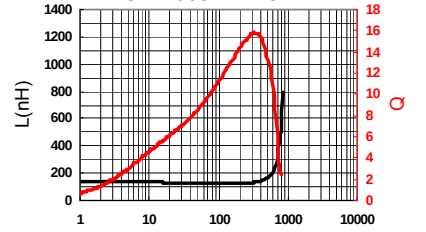
RDC<1.6Ω SRF:1000MHZ IDC:100 mA

CLH1005T-R10J-H



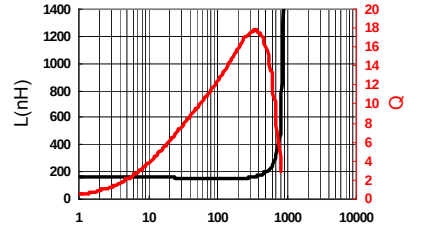
RDC<2Ω SRF:900MHz IDC:100 mA

CLH1005T-R12J-H



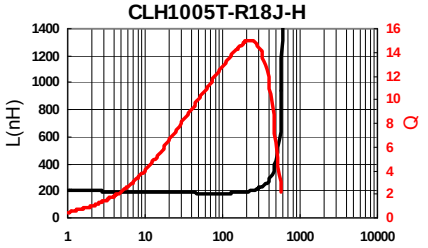
RDC<2.2Ω SRF:800MHz IDC:100 mA

CLH1005T-R15J-H



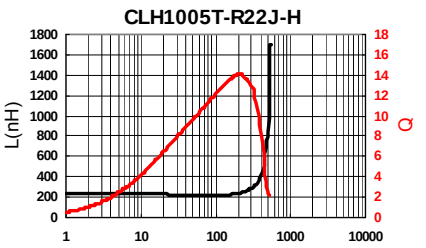
RDC<3.5Ω SRF:700MHz IDC:100 mA

CLH1005T-R18J-H



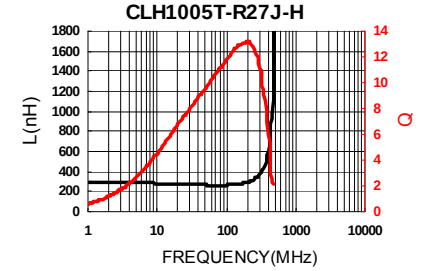
RDC<3.8Ω SRF:600MHz IDC:100 mA

CLH1005T-R22J-H



RDC<4.2Ω SRF:500MHz IDC:100 mA

CLH1005T-R27J-H



RDC<4.8Ω SRF:500MHz IDC:100 mA

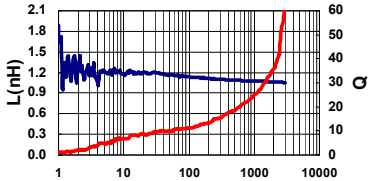
Electrical Characteristics

Part Number	Inductance (nH) at 100MHz	Tolerance (±%)	Q Min at 100MHz	SRF (MHz) Typ.	DC Resistance (Ω) Max	Rated Current (mA) Max
CLH1005T-1N0□-S-NP	1.0	±0.3nH	8	10000	0.07	300
CLH1005T-1N1□-S-NP	1.1	±0.3nH	8	6000	0.09	300
CLH1005T-1N2□-S-NP	1.2	±0.3nH	8	6000	0.09	300
CLH1005T-1N3□-S-NP	1.3	±0.3nH	8	6000	0.09	300
CLH1005T-1N5□-S-NP	1.5	±0.3nH	8	6000	0.10	300
CLH1005T-1N6□-S-NP	1.6	±0.3nH	8	6000	0.10	300
CLH1005T-1N8□-S-NP	1.8	±0.3nH	8	6000	0.10	300
CLH1005T-2N0□-S-NP	2.0	±0.3nH	8	6000	0.10	300
CLH1005T-2N2□-S-NP	2.2	±0.3nH	8	6000	0.12	300
CLH1005T-2N4□-S-NP	2.4	±0.3nH	8	6000	0.15	300
CLH1005T-2N7□-S-NP	2.7	±0.3nH	8	6000	0.15	300
CLH1005T-3N0□-S-NP	3.0	±0.3nH	8	6000	0.17	300
CLH1005T-3N3□-S-NP	3.3	±0.3nH	8	6000	0.17	300
CLH1005T-3N6□-S-NP	3.6	±0.3nH	8	6000	0.18	300
CLH1005T-3N9□-S-NP	3.9	±0.3nH	8	6000	0.18	300
CLH1005T-4N3□-S-NP	4.3	±0.3nH	8	6000	0.18	300
CLH1005T-4N7□-S-NP	4.7	±0.3nH	8	6000	0.18	300
CLH1005T-5N1□-S-NP	5.1	±0.3nH	8	5300	0.20	300
CLH1005T-5N6□-S-NP	5.6	±0.3nH	8	4500	0.20	300
CLH1005T-6N2□-S-NP	6.2	±0.3nH/5/10	8	4500	0.22	300
CLH1005T-6N8□-S-NP	6.8	5 / 10	8	4500	0.24	300
CLH1005T-7N5□-S-NP	7.5	5 / 10	8	4200	0.24	300
CLH1005T-8N2□-S-NP	8.2	5 / 10	8	3700	0.24	300
CLH1005T-9N1□-S-NP	9.1	5 / 10	8	3400	0.26	300
CLH1005T-10N□-S-NP	10	5 / 10	8	3400	0.26	300
CLH1005T-12N□-S-NP	12	5 / 10	8	3000	0.28	300
CLH1005T-15N□-S-NP	15	5 / 10	8	2500	0.32	300
CLH1005T-18N□-S-NP	18	5 / 10	8	2200	0.36	300
CLH1005T-22N□-S-NP	22	5 / 10	8	1900	0.42	300
CLH1005T-27N□-S-NP	27	5 / 10	8	1700	0.46	300
CLH1005T-33N□-S-NP	33	5 / 10	8	1600	0.58	200
CLH1005T-39N□-S-NP	39	5 / 10	8	1200	0.65	200
CLH1005T-47N□-S-NP	47	5 / 10	8	1000	0.72	200
CLH1005T-56N□-S-NP	56	5 / 10	8	800	0.82	200
CLH1005T-68N□-S-NP	68	5 / 10	8	800	0.92	180
CLH1005T-82N□-S-NP	82	5 / 10	8	700	1.20	150

- Tolerance：S = ± 0.3nH , J = ± 5% , K = ± 10%
- Test Instruments： L/Q：Agilent E4991A + Fixture：Agilent 16197A
  SRF：HP8753D
  RDC：HP4338B/ CH502BC

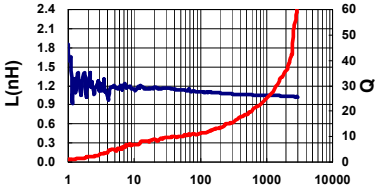
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH1005T-1N0S-S-NP



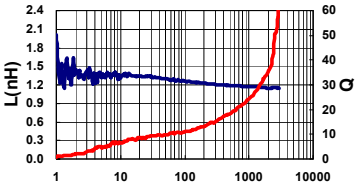
RDC<0.07Ω SRF:10000MHz IDC:300mA

CLH1005T-1N1S-S-NP



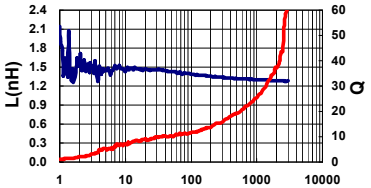
RDC<0.09Ω SRF:6000MHz IDC:300mA

CLH1005T-1N2S-S-NP



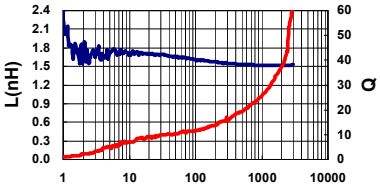
RDC<0.09Ω SRF:6000MHz IDC:300mA

CLH1005T-1N3S-S-NP



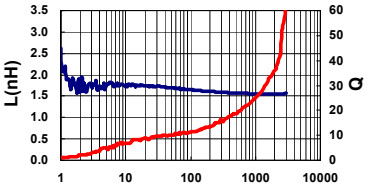
RDC<0.09Ω SRF:6000MHz IDC:300mA

CLH1005T-1N5S-S-NP



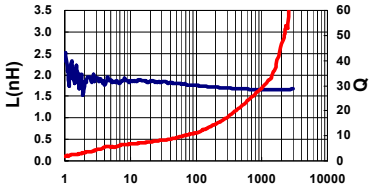
RDC<0.10Ω SRF:6000MHz IDC:300mA

CLH1005T-1N6S-S-NP



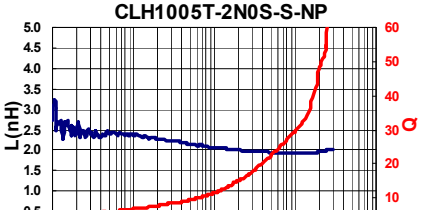
RDC<0.10Ω SRF:6000MHz IDC:300mA

CLH1005T-1N8S-S-NP



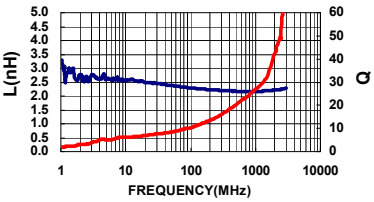
RDC<0.10Ω SRF:6000MHz IDC:300mA

CLH1005T-2N0S-S-NP



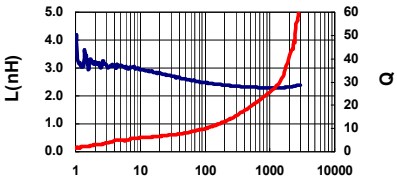
RDC<0.10Ω SRF:6000MHz IDC:300mA

CLH1005T-2N2S-S-NP



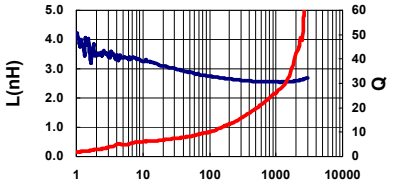
RDC<0.12Ω SRF:6000MHz IDC:300mA

CLH1005T-2N4S-S-NP



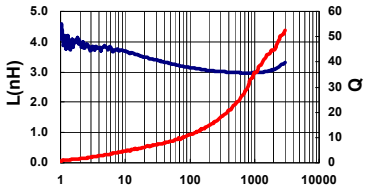
RDC<0.15Ω SRF:6000MHz IDC:300mA

CLH1005T-2N7S-S-NP



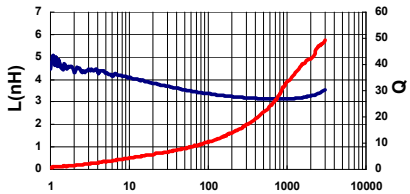
RDC<0.15Ω SRF:6000MHz IDC:300mA

CLH1005T-3N0S-S-NP



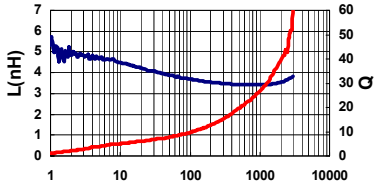
RDC<0.17Ω SRF:6000MHz IDC:300mA

CLH1005T-3N3S-S-NP



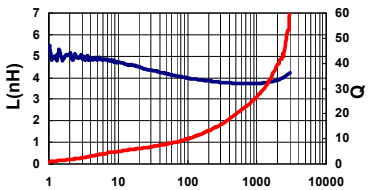
RDC<0.17Ω SRF:6000MHz IDC:300mA

CLH1005T-3N6S-S-NP



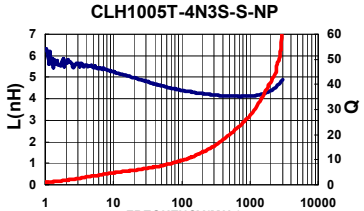
RDC<0.18Ω SRF:6000MHz IDC:300mA

CLH1005T-3N9S-S-NP



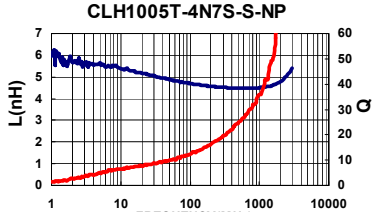
RDC<0.18Ω SRF:6000MHz IDC:300mA

CLH1005T-4N3S-S-NP



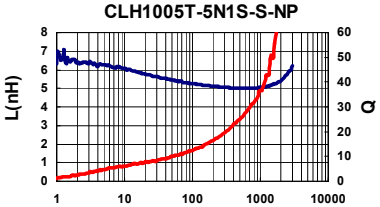
RDC<0.18Ω SRF:6000MHz IDC:300mA

CLH1005T-4N7S-S-NP



RDC<0.18Ω SRF:6000MHz IDC:300mA

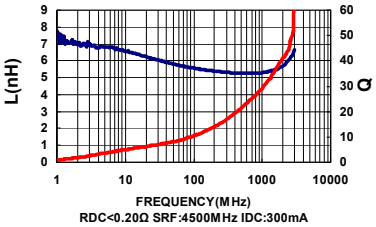
CLH1005T-5N1S-S-NP



RDC<0.20Ω SRF:5300MHz IDC:300mA

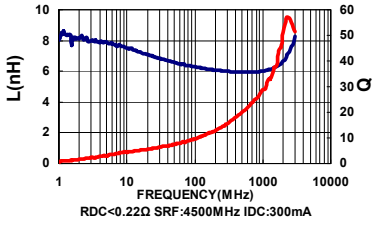
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH1005T-5N6S-S-NP



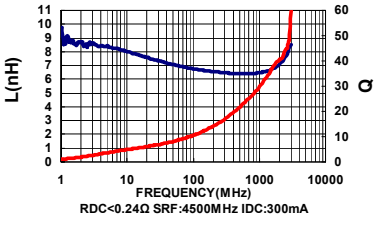
RDC<0.20Ω SRF:4500MHz IDC:300mA

CLH1005T-6N2S-S-NP



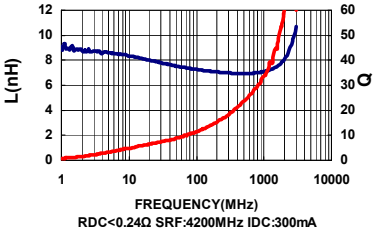
RDC<0.22Ω SRF:4500MHz IDC:300mA

CLH1005T-6N8J-S-NP



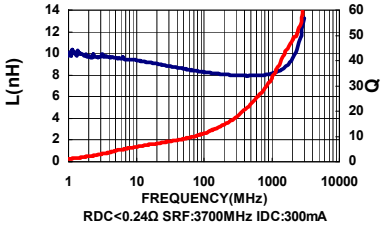
RDC<0.24Ω SRF:4500MHz IDC:300mA

CLH1005T-7N5J-S-NP



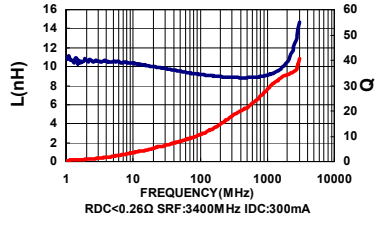
RDC<0.24Ω SRF:4200MHz IDC:300mA

CLH1005T-8N2J-S-NP



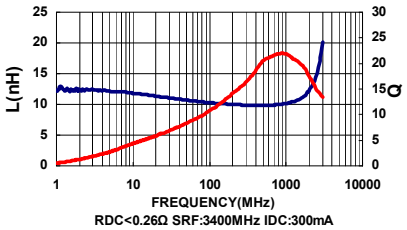
RDC<0.24Ω SRF:3700MHz IDC:300mA

CLH1005T-9N1J-S-NP



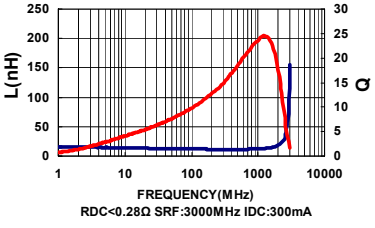
RDC<0.26Ω SRF:3400MHz IDC:300mA

CLH1005T-10NJ-S-NP



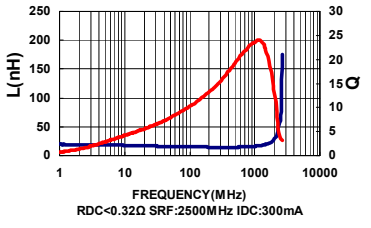
RDC<0.26Ω SRF:3400MHz IDC:300mA

CLH1005T-12NJ-S-NP



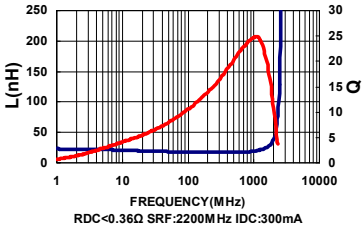
RDC<0.28Ω SRF:3000MHz IDC:300mA

CLH1005T-15NJ-S-NP



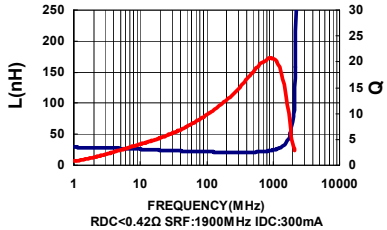
RDC<0.32Ω SRF:2500MHz IDC:300mA

CLH1005T-18NJ-S-NP



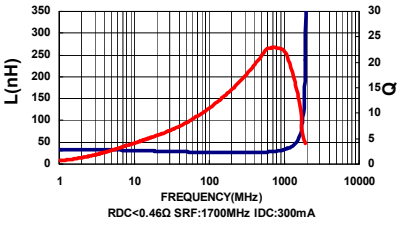
RDC<0.36Ω SRF:2200MHz IDC:300mA

CLH1005T-22NJ-S-NP



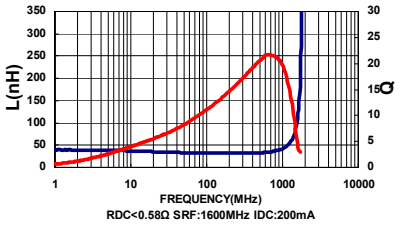
RDC<0.42Ω SRF:1900MHz IDC:300mA

CLH1005T-27NJ-S-NP



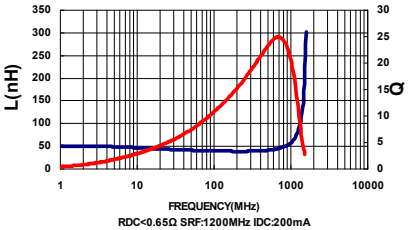
RDC<0.46Ω SRF:1700MHz IDC:300mA

CLH1005T-33NJ-S-NP



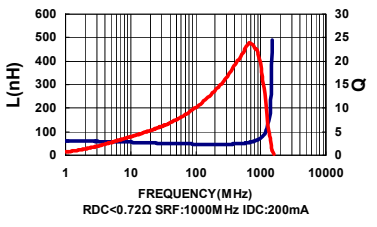
RDC<0.58Ω SRF:1600MHz IDC:200mA

CLH1005T-39NJ-S-NP



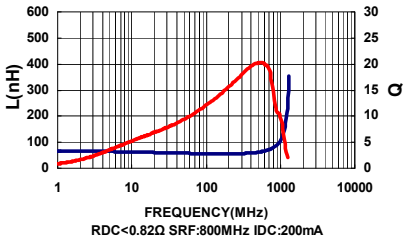
RDC<0.65Ω SRF:1200MHz IDC:200mA

CLH1005T-47NJ-S-NP



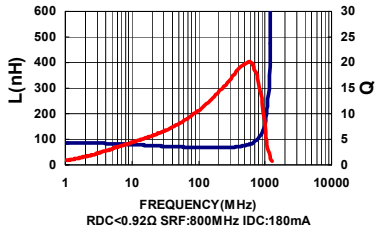
RDC<0.72Ω SRF:1000MHz IDC:200mA

CLH1005T-56NJ-S-NP



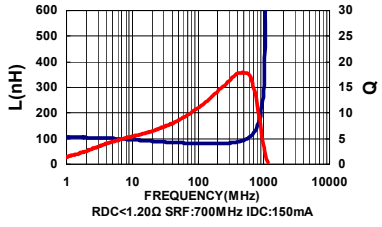
RDC<0.82Ω SRF:800MHz IDC:200mA

CLH1005T-68NJ-S-NP



RDC<0.92Ω SRF:800MHz IDC:180mA

CLH1005T-82NJ-S-NP



RDC<1.20Ω SRF:700MHz IDC:150mA

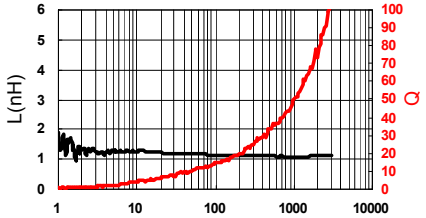
Electrical Characteristics

Part Number	Inductance (nH) at 100MHz	Tolerance (±%)	Q Min at 50MHz	Q Min at 100MHz	SRF (MHz) Typ.	DC Resistance (Ω) Max	IDC (mA) Max
CLH1608T-1N0S-S	1.0	±0.3nH		8	10000	0.10	600
CLH1608T-1N2S-S	1.2	±0.3nH		8	10000	0.10	600
CLH1608T-1N5S-S	1.5	±0.3nH		8	8000	0.10	600
CLH1608T-1N8S-S	1.8	±0.3nH		8	8000	0.10	600
CLH1608T-2N2S-S	2.2	±0.3nH		8	7200	0.10	600
CLH1608T-2N7S-S	2.7	±0.3nH		10	6200	0.10	600
CLH1608T-3N3□-S	3.3	±0.3nH/10		10	5200	0.12	600
CLH1608T-3N9□-S	3.9	±0.3nH/10		10	5000	0.14	600
CLH1608T-4N7□-S	4.7	±0.3nH /10		10	4750	0.16	600
CLH1608T-5N6□-S	5.6	±0.3nH/10		10	4100	0.18	600
CLH1608T-6N8□-S	6.8	5 / 10		10	3750	0.22	600
CLH1608T-8N2□-S	8.2	5 / 10		10	3300	0.24	600
CLH1608T-10N□-S	10	5 / 10		12	3000	0.26	600
CLH1608T-12N□-S	12	5 / 10		12	2600	0.28	600
CLH1608T-15N□-S	15	5 / 10		12	2500	0.32	600
CLH1608T-18N□-S	18	5 / 10		12	2400	0.35	600
CLH1608T-22N□-S	22	5 / 10		12	2000	0.40	500
CLH1608T-27N□-S	27	5 / 10		12	1900	0.45	500
CLH1608T-33N□-S	33	5 / 10		12	1600	0.55	400
CLH1608T-39N□-S	39	5 / 10		12	1400	0.60	400
CLH1608T-47N□-S	47	5 / 10		12	1300	0.70	400
CLH1608T-56N□-S	56	5 / 10		12	1100	0.75	400
CLH1608T-62N□-S	62	5 / 10		12	1050	0.85	400
CLH1608T-68N□-S	68	5 / 10		12	1050	0.85	400
CLH1608T-82N□-S	82	5 / 10		12	900	1.00	300
CLH1608T-R10□-S	100	5 / 10		12	770	1.20	300
CLH1608T-R12□-S	*120	5 / 10	8		650	1.30	300
CLH1608T-R15□-S	*150	5 / 10	8		550	1.70	250
CLH1608T-R18□-S	*180	5 / 10	8		520	1.90	250
CLH1608T-R22□-S	*220	5 / 10	8		500	2.00	250
CLH1608T-R27□-S	*270	5 / 10	8		470	2.20	150
CLH1608T-R33□-S	*330	5 / 10	8		320	2.80	100
CLH1608T-R39□-S	*390	5 / 10	8		300	3.00	100

- * at 50MHz
- Tolerance：S = ± 0.3 nH；J = ± 5%；K = ± 10%
- Test Instruments： L/Q： L/Q：Agilent E4991A + Fixture：Agilent 16197A
  SRF： HP8753D
  RDC： HP4338B/ CH502BC

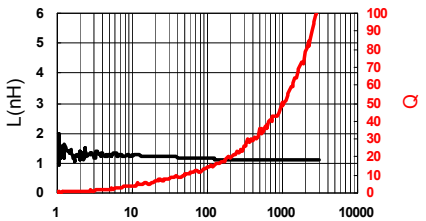
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH1608T-1N0S-S



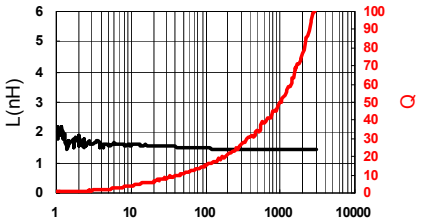
RDC<0.1Ω SRF:10000MHz IDC:600mA

CLH1608T-1N2S-S



RDC<0.1Ω SRF:10000MHz IDC:600mA

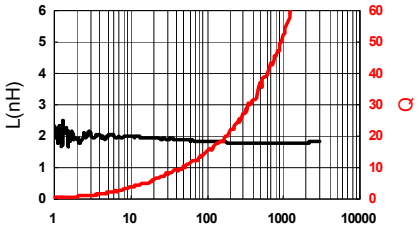
CLH1608T-1N5S-S



RDC<0.1Ω SRF:8000MHz IDC:600mA

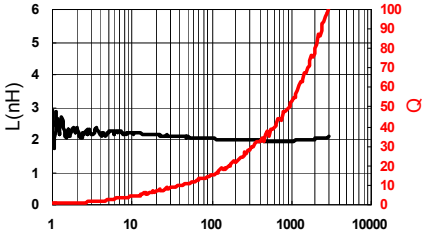
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH1608T-1N8S-S



FREQUENCY(MHz)
RDC<0.10Ω SRF:8000MHz IDC:600mA

CLH1608T-2N2S-S



FREQUENCY(MHz)
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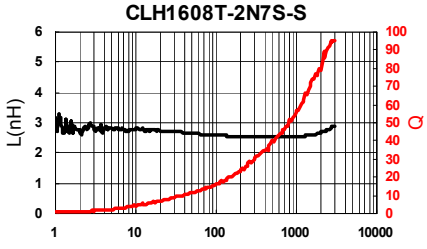
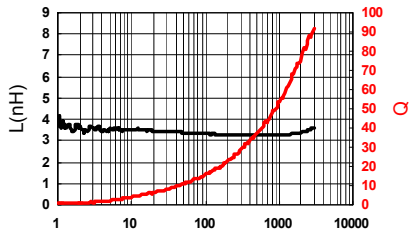
CLH1608T-2N7S-S



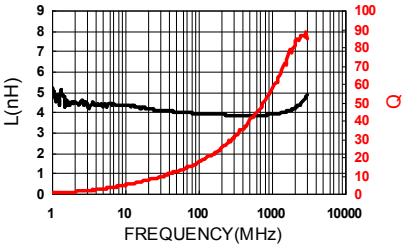
FREQUENCY(MHz)
RDC<0.10Ω SRF:6200MHz IDC:600mA

CLH1608T-3N3S-S



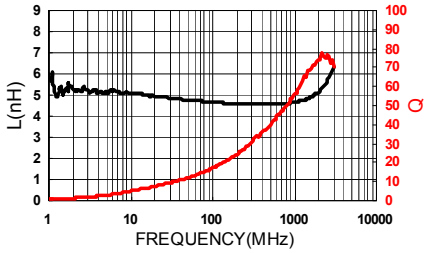
FREQUENCY(MHz)
RDC<0.12Ω SRF:5200MHz IDC:600mA

CLH1608T-3N9S-S



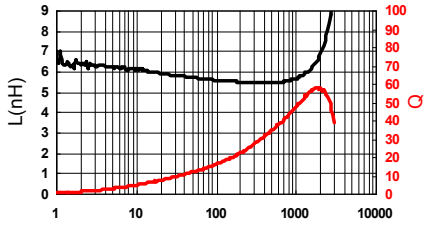
FREQUENCY(MHz)
RDC<0.14Ω SRF:5000MHz IDC:600mA

CLH1608T-4N7S-S



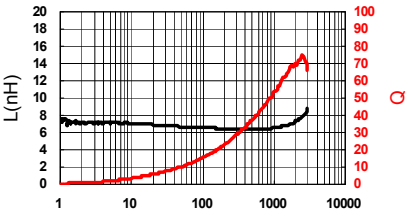
FREQUENCY(MHz)
RDC<0.16Ω SRF:4750MHz IDC:600mA

CLH1608T-5N6S-S



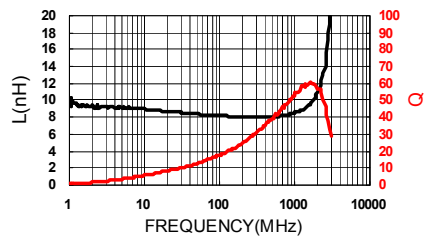
FREQUENCY(MHz)
RDC<0.18Ω SRF:4100MHz IDC:600mA

CLH1608T-6N8J-S



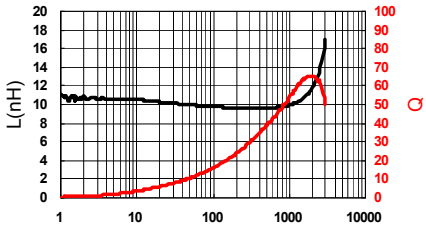
FREQUENCY(MHz)
RDC<0.22Ω SRF:3750MHz IDC:600mA

CLH1608T-8N2J-S



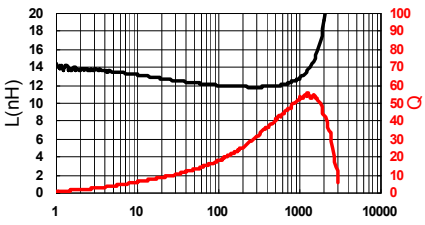
FREQUENCY(MHz)
RDC<0.24Ω SRF:3300MHz IDC:600mA

CLH1608T-10NJ-S



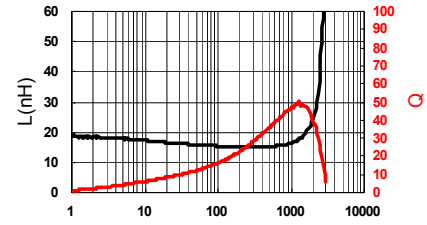
FREQUENCY(MHz)
RDC<0.26Ω SRF:3000MHz IDC:600mA

CLH1608T-12NJ-S



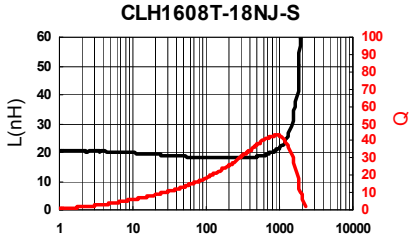
FREQUENCY(MHz)
RDC<0.28Ω SRF:2600MHz IDC:600mA

CLH1608T-15NJ-S



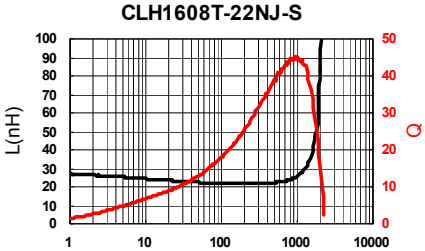
FREQUENCY(MHz)
RDC<0.32Ω SRF:2400MHz IDC:600mA

CLH1608T-18NJ-S



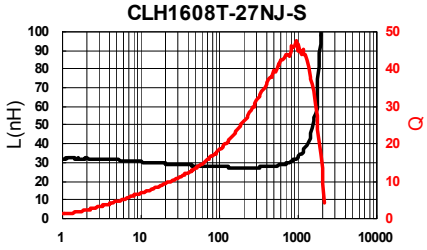
FREQUENCY(MHz)
RDC<0.35Ω SRF:2400MHz IDC:600mA

CLH1608T-22NJ-S



FREQUENCY(MHz)
RDC<0.4Ω SRF:2000MHz IDC:500mA

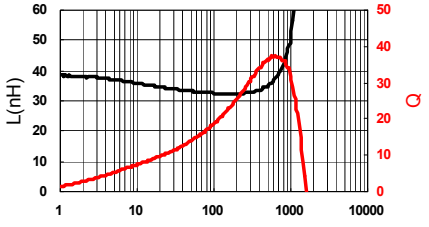
CLH1608T-27NJ-S



FREQUENCY(MHz)
RDC<0.45Ω SRF:1900MHz IDC:500mA

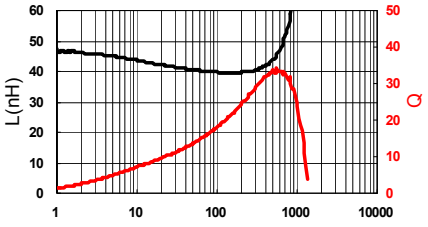
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH1608T-33NJ-S



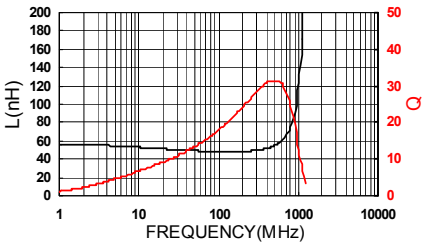
RDC<0.55Ω SRF:1600MHz IDC:400mA

CLH1608T-39NJ-S



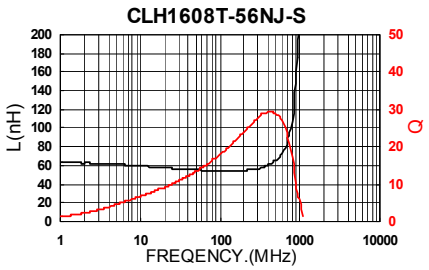
RDC<0.60Ω SRF:1400MHz IDC:400mA

CLH1608T-47NJ-S



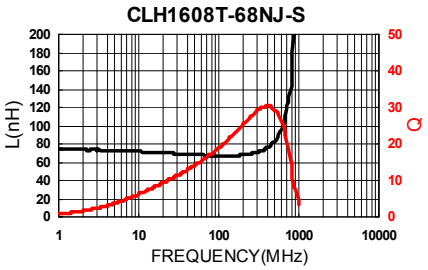
RDC<0.7Ω SRF:1300MHz IDC:400mA

CLH1608T-56NJ-S



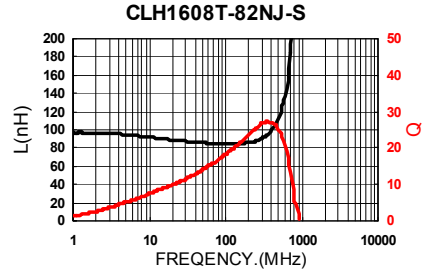
RDC<0.75Ω SRF:1100MHz IDC:400mA

CLH1608T-68NJ-S



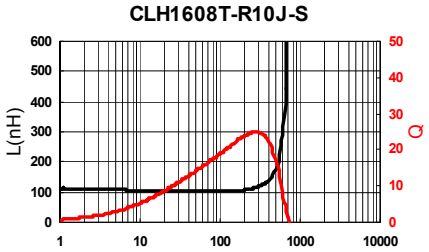
RDC<0.85Ω SRF:1050MHz IDC:400mA

CLH1608T-82NJ-S



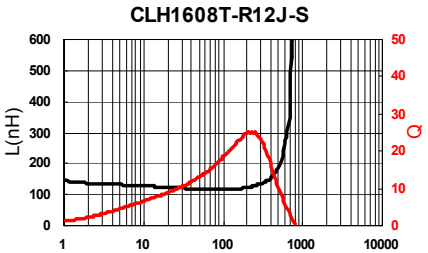
RDC<1.0Ω SRF:900MHz IDC:300mA

CLH1608T-R10J-S



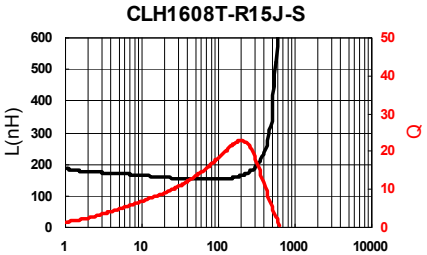
RDC<1.20Ω SRF:770MHz IDC:300mA

CLH1608T-R12J-S



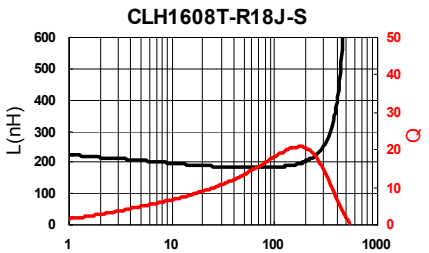
RDC<1.30 Ω SRF:650MHz IDC:300mA

CLH1608T-R15J-S



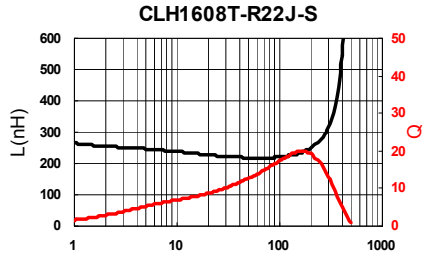
RDC<1.70 Ω SRF:550MHz IDC:250mA

CLH1608T-R18J-S



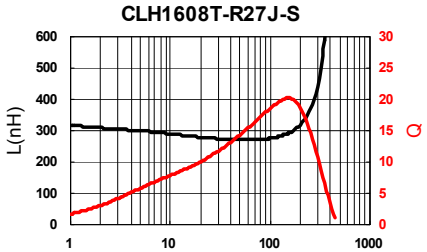
RDC<1.90 Ω SRF:520MHz IDC:250mA

CLH1608T-R22J-S



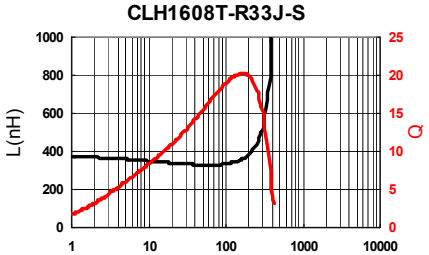
RDC<2.00 Ω SRF:500MHz IDC:250mA

CLH1608T-R27J-S



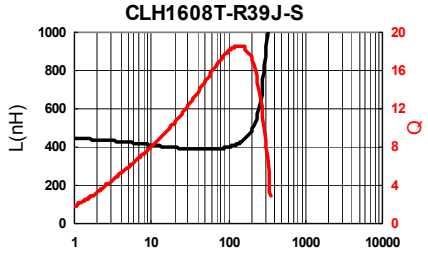
RDC<2.20 Ω SRF:470MHz IDC:150mA

CLH1608T-R33J-S



RDC<2.8 Ω SRF:320MHz IDC:100mA

CLH1608T-R39J-S



RDC<3 Ω SRF:300MHz IDC:100mA

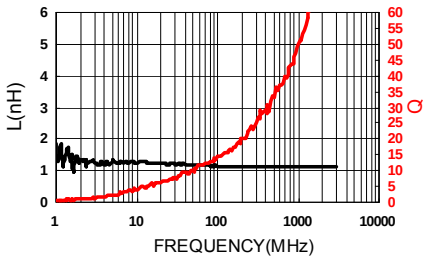
Electrical Characteristics

Part Number	Inductance (nH) at 100MHz	Tolerance (±%)	Q Min at 50MHz	Q Min at 100MHz	SRF (MHz) Typ.	DC Resistance (Ω) Max	IDC (mA) Max
CLH1608T-1N0S-H	1.0	±0.3nH		8	10000	0.10	600
CLH1608T-1N2S-H	1.2	±0.3nH		8	10000	0.10	600
CLH1608T-1N5S-H	1.5	±0.3nH		8	8000	0.10	600
CLH1608T-1N8S-H	1.8	±0.3nH		8	8000	0.10	600
CLH1608T-2N2S-H	2.2	±0.3nH		8	7200	0.10	600
CLH1608T-2N7S-H	2.7	±0.3nH		10	6200	0.10	600
CLH1608T-3N3□-H	3.3	±0.3nH/10		10	5200	0.12	600
CLH1608T-3N9□-H	3.9	±0.3nH/10		10	5000	0.14	600
CLH1608T-4N7□-H	4.7	±0.3nH/10		10	4750	0.16	600
CLH1608T-5N6□-H	5.6	±0.3nH/10		10	4100	0.18	600
CLH1608T-6N8□-H	6.8	5 / 10		10	3750	0.22	600
CLH1608T-8N2□-H	8.2	5 / 10		10	3300	0.24	600
CLH1608T-10N□-H	10	5 / 10		12	3000	0.26	600
CLH1608T-12N□-H	12	5 / 10		12	2600	0.28	600
CLH1608T-15N□-H	15	5 / 10		12	2500	0.32	600
CLH1608T-18N□-H	18	5 / 10		12	2400	0.35	600
CLH1608T-22N□-H	22	5 / 10		12	2000	0.40	500
CLH1608T-27N□-H	27	5 / 10		12	1900	0.45	500
CLH1608T-33N□-H	33	5 / 10		12	1600	0.55	400
CLH1608T-39N□-H	39	5 / 10		12	1400	0.60	400
CLH1608T-47N□-H	47	5 / 10		12	1300	0.70	400
CLH1608T-56N□-H	56	5 / 10		12	1100	0.75	400
CLH1608T-62N□-H	62	5 / 10		12	1050	0.85	400
CLH1608T-68N□-H	68	5 / 10		12	1050	0.85	400
CLH1608T-82N□-H	82	5 / 10		12	900	1.00	300
CLH1608T-R10□-H	100	5 / 10		12	770	1.20	300
CLH1608T-R12□-H	*120	5 / 10	8		650	1.30	300
CLH1608T-R15□-H	*150	5 / 10	8		550	1.70	250
CLH1608T-R18□-H	*180	5 / 10	8		520	1.90	250
CLH1608T-R22□-H	*220	5 / 10	8		500	2.00	250
CLH1608T-R27□-H	*270	5 / 10	8		470	2.20	150
CLH1608T-R33□-H	*330	5 / 10	8		320	2.80	100
CLH1608T-R39□-H	*390	5 / 10	8		300	3.00	100

- * at 50MHz
- Tolerance：S = ± 0.3 nH；J = ± 5%；K = ± 10%
- Test Instruments： L/Q： Agilent E4991A + Fixture：Agilent 16197A
  SRF： HP8753D
  RDC： HP4338B/ CH502BC

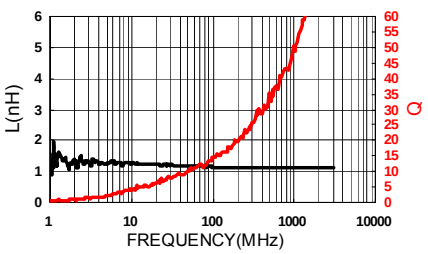
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH1608T-1N0S-H



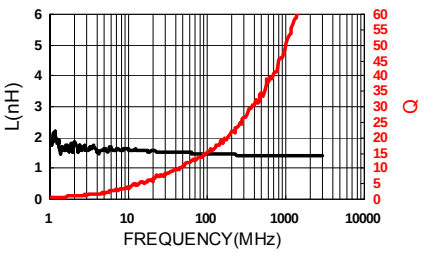
RDC<0.10Ω SRF:6000MHZ IDC:500mA

CLH1608T-1N2S-H



RDC<0.10Ω SRF:6000MHZ IDC:500mA

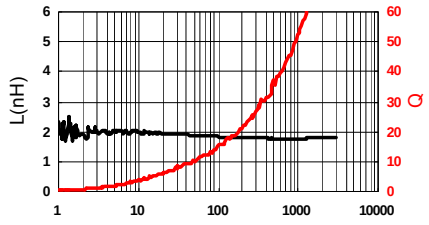
CLH1608T-1N5S-H



RDC<0.10Ω SRF:6000MHZ IDC:500mA

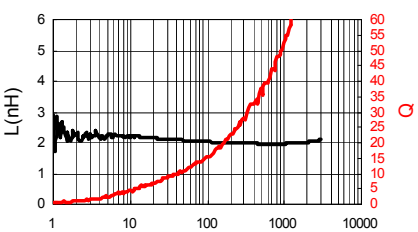
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH1608T-1N8S-H



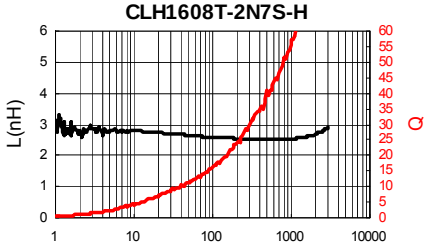
RDC<0.10Ω SRF:6000MHZ IDC:500mA

CLH1608T-2N2S-H



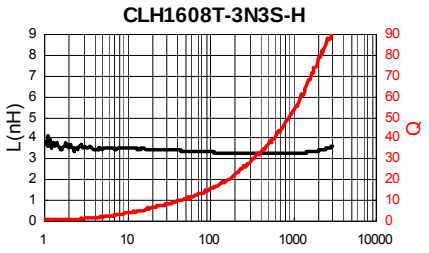
RDC<0.10Ω SRF:6000MHZ IDC:500mA

CLH1608T-2N7S-H



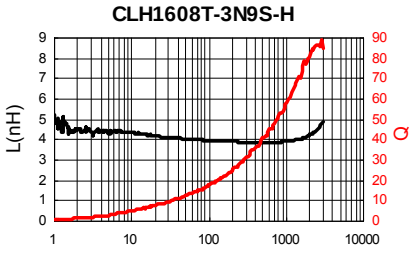
RDC<0.10Ω SRF:6000MHZ IDC:500mA

CLH1608T-3N3S-H



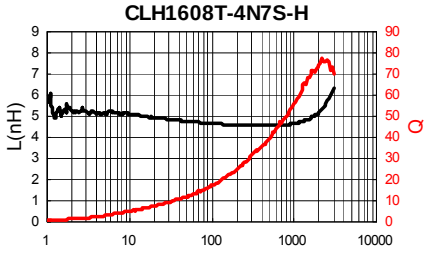
RDC<0.12Ω SRF:5900MHZ IDC:500mA

CLH1608T-3N9S-H



RDC<0.14Ω SRF:5600MHZ IDC:500mA

CLH1608T-4N7S-H



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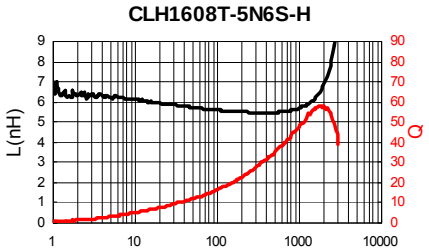
CLH1608T-5N6S-H



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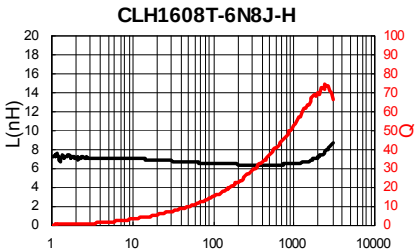
CLH1608T-6N8J-H



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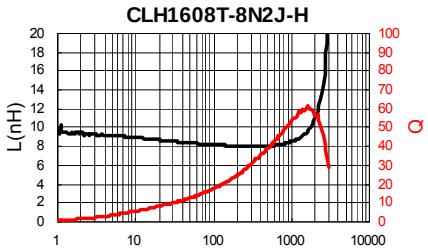
CLH1608T-8N2J-H



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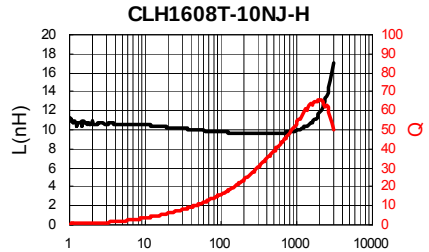
CLH1608T-10NJ-H



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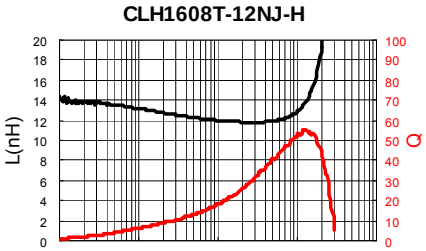
CLH1608T-12NJ-H



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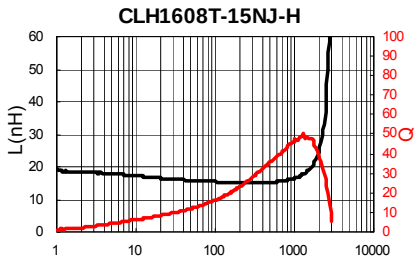
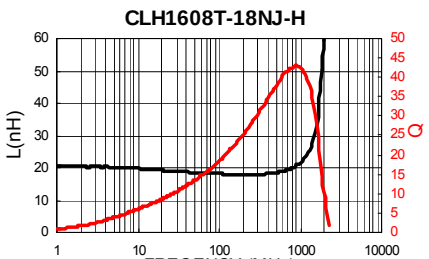
CLH1608T-15NJ-H

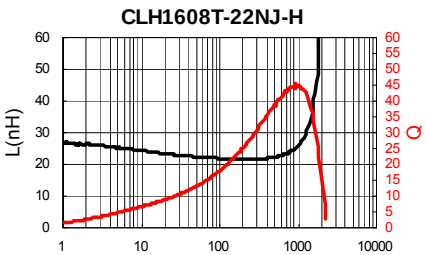


CLH1608T-18NJ-H



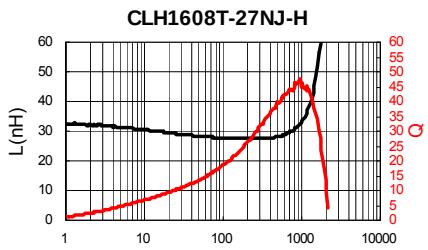
RDC<0.35Ω SRF:2100MHZ IDC:400mA

CLH1608T-22NJ-H



RDC<0.40Ω SRF:1850MHZ IDC:400mA

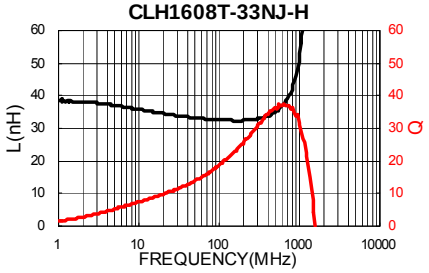
CLH1608T-27NJ-H



RDC<0.45Ω SRF:1680MHZ IDC:400mA

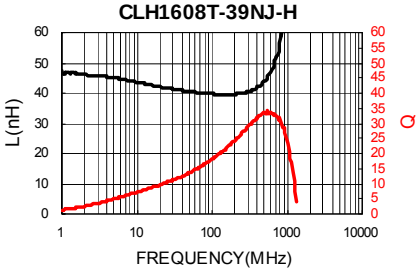
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH1608T-33NJ-H



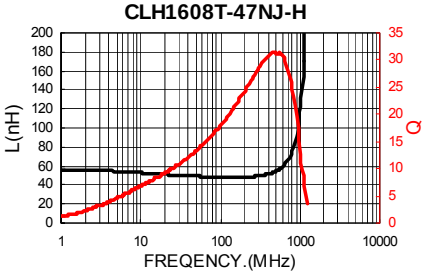
RDC<0.55Ω SRF:1580MHZ IDC:400mA

CLH1608T-39NJ-H



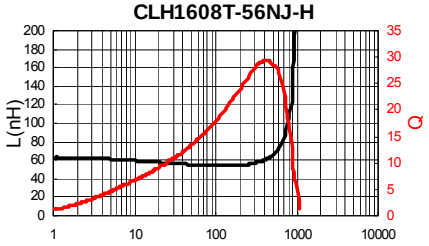
RDC<0.60Ω SRF:1400MHZ IDC:300mA

CLH1608T-47NJ-H



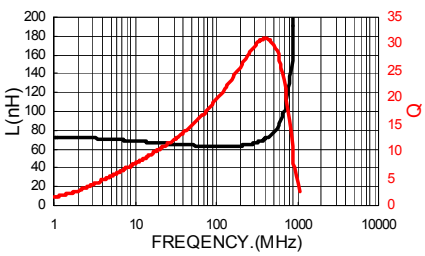
RDC<0.70Ω SRF:1200MHZ IDC:300mA

CLH1608T-56NJ-H



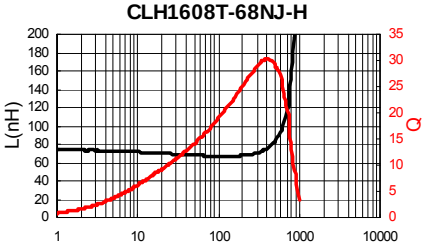
RDC<0.75Ω SRF:1100MHZ IDC:300mA

CLH1608T-62NJ-H



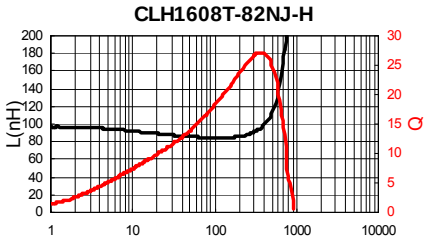
RDC<0.85Ω SRF:1050MHZ IDC:300mA

CLH1608T-68NJ-H



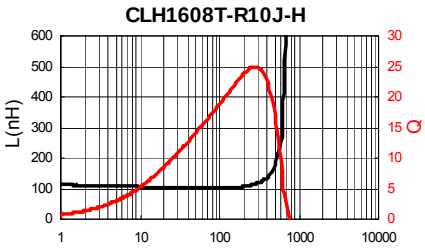
RDC<0.85Ω SRF:1050MHZ IDC:300mA

CLH1608T-82NJ-H



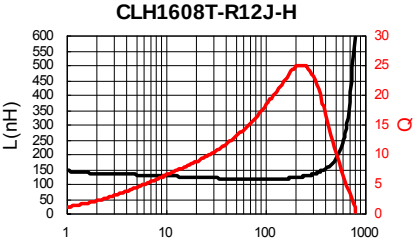
RDC<1.0Ω SRF:900MHZ IDC:300mA

CLH1608T-R10J-H



RDC<1.20Ω SRF:850MHZ IDC:300mA

CLH1608T-R12J-H



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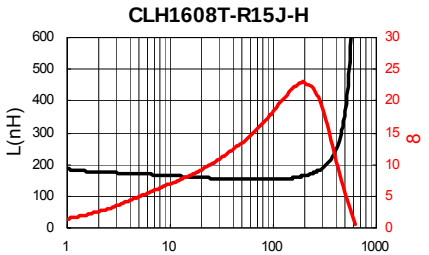
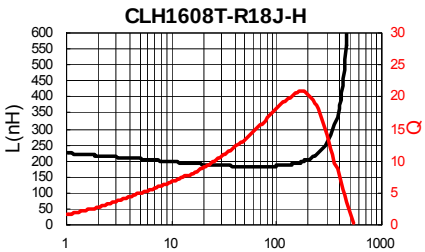
CLH1608T-R15J-H



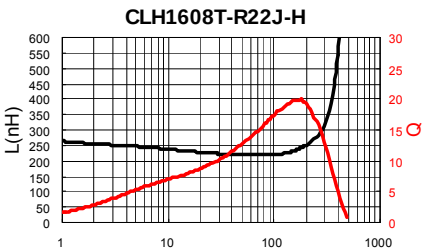
RDC<2.4Ω SRF:550MHZ IDC:250mA

CLH1608T-R18J-H



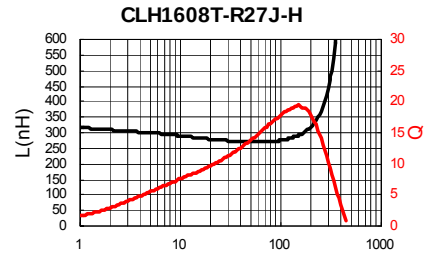
RDC<2.7Ω SRF:520MHZ IDC:250mA

CLH1608T-R22J-H



RDC<3.0Ω SRF:500MHZ IDC:250mA

CLH1608T-R27J-H



RDC<3.5Ω SRF:470MHZ IDC:150mA

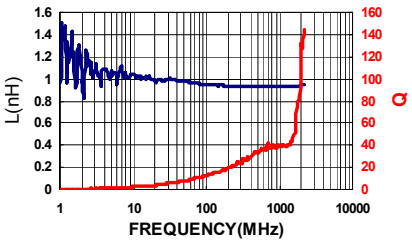
Electrical Characteristics

Part Number	Inductance (nH) at 100MHz	Tolerance (±%)	Q Min at 50MHz	Q Min at 100MHz	SRF (MHz) Typ.	DC Resistance (Ω) Max	IDC (mA) Max
CLH2012T-1N0□-S	1.0	±0.3nH		10	> 6000	0.10	300
CLH2012T-1N2□-S	1.2	±0.3nH		10	> 6000	0.10	300
CLH2012T-1N5□-S	1.5	±0.3nH		10	> 6000	0.10	300
CLH2012T-1N8□-S	1.8	±0.3nH		10	> 6000	0.10	300
CLH2012T-2N2□-S	2.2	±0.3nH		10	> 6000	0.10	300
CLH2012T-2N7□-S	2.7	±0.3nH		12	> 6000	0.10	300
CLH2012T-3N3□-S	3.3	±0.3nH/10		12	> 6000	0.13	300
CLH2012T-3N9□-S	3.9	±0.3nH/10		12	5400	0.15	300
CLH2012T-4N7□-S	4.7	±0.3nH/10		12	4500	0.20	300
CLH2012T-5N6□-S	5.6	±0.3nH/10		12	4000	0.23	300
CLH2012T-6N8□-S	6.8	5 / 10		15	3650	0.25	300
CLH2012T-8N2□-S	8.2	5 / 10		15	3000	0.28	300
CLH2012T-10N□-S	10	5 / 10		15	2500	0.30	300
CLH2012T-12N□-S	12	5 / 10		15	2450	0.35	300
CLH2012T-15N□-S	15	5 / 10		15	2000	0.40	300
CLH2012T-18N□-S	18	5 / 10		15	1750	0.45	300
CLH2012T-22N□-S	22	5 / 10		15	1700	0.50	300
CLH2012T-27N□-S	27	5 / 10		15	1550	0.55	300
CLH2012T-33N□-S	33	5 / 10		15	1350	0.60	300
CLH2012T-39N□-S	39	5 / 10		18	1300	0.65	300
CLH2012T-47N□-S	47	5 / 10		18	1200	0.70	300
CLH2012T-56N□-S	56	5 / 10		18	1150	0.75	300
CLH2012T-68N□-S	68	5 / 10		18	1000	0.80	300
CLH2012T-82N□-S	82	5 / 10		18	850	0.90	300
CLH2012T-R10□-S	100	5 / 10		18	730	1.00	300
CLH2012T-R12□-S	* 120	5 / 10	13		650	1.20	300
CLH2012T-R15□-S	* 150	5 / 10	13		550	1.40	300
CLH2012T-R18□-S	* 180	5 / 10	13		500	1.80	300
CLH2012T-R22□-S	* 220	5 / 10	12		450	2.00	300
CLH2012T-R27□-S	* 270	5 / 10	12		400	2.50	200
CLH2012T-R33□-S	* 330	5 / 10	12		380	3.00	200
CLH2012T-R39□-S	* 390	5 / 10	10		330	3.50	200
CLH2012T-R47□-S	* 470	5 / 10	10		300	4.00	200

- * at 50MHz
- Tolerance：S = ± 0.3nH , J = ± 5% , K = ± 10%
- Test Instruments： L/Q：Agilent E4991A + Fixture：Agilent 16197A
  SRF：HP8753D
  RDC：HP4338B/ CH502BC

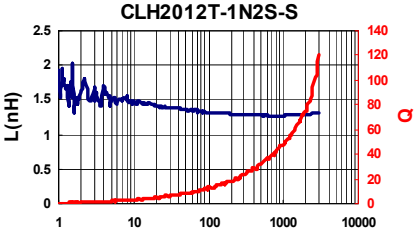
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH2012T-1N0S-S



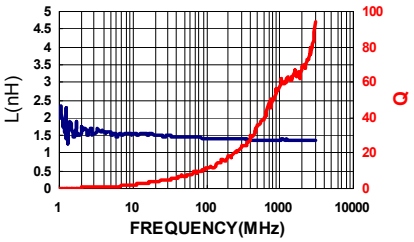
RDC<0.1Ω SRF:>6000MHz IDC:300mA

CLH2012T-1N2S-S



RDC<0.1Ω SRF:>6000MHz IDC:300mA

CLH2012T-1N5S-S

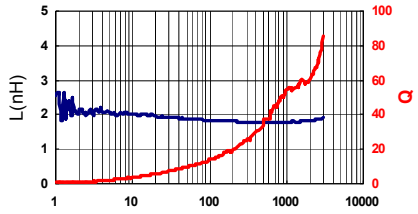


RDC<0.1Ω SRF:>6000MHz IDC:300mA

CHILISIN ELECTRONICS CORP.

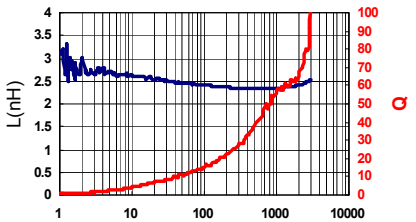
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH2012T-1N8S-S



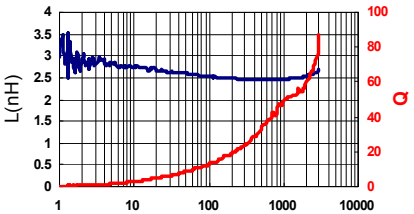
RDC<0.1Ω SRF:>6000MHz IDC:300mA

CLH2012T-2N2S-S



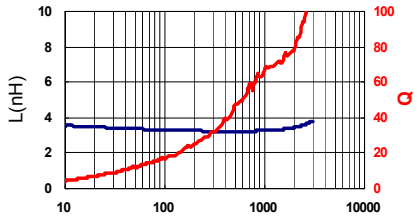
RDC<0.1Ω SRF:>6000MHz IDC:300mA

CLH2012T-2N7S-S



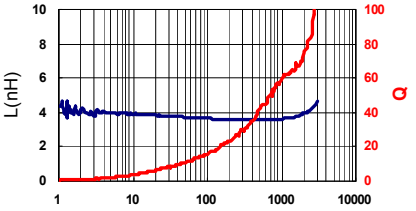
RDC<0.1Ω SRF:>6000MHz IDC:300mA

CLH2012T-3N3S-S



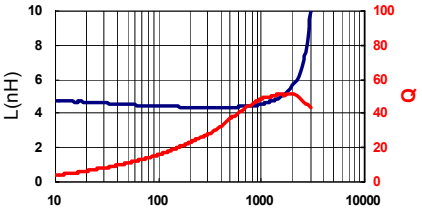
RDC<0.13Ω SRF:>6000MHz IDC:300mA

CLH2012T-3N9S-S



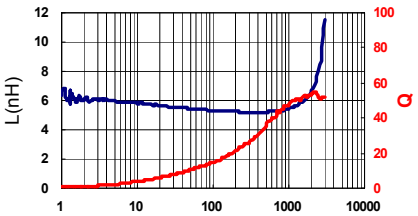
RDC<0.15Ω SRF:5400MHz IDC:300mA

CLH2012T-4N7S-S



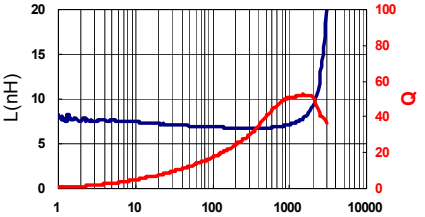
RDC<0.2Ω SRF:4500MHz IDC:300mA

CLH2012T-5N6S-S



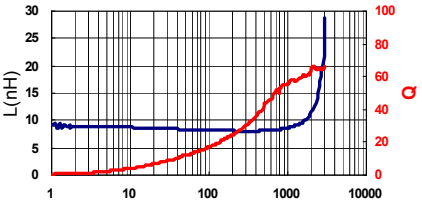
RDC<0.23Ω SER:4000MHz IDC:300mA

CLH2012T-6N8J-S



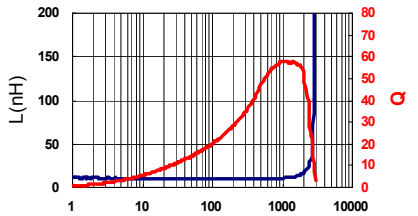
RDC<0.25Ω SRF:3650MHz IDC:300mA

CLH2012T-8N2J-S



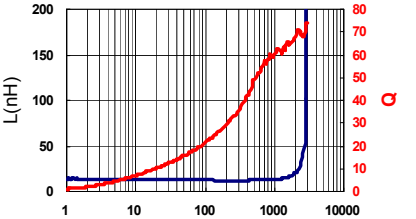
RDC<0.28Ω SRF:3000MHz IDC:300mA

CLH2012T-10NJ-S



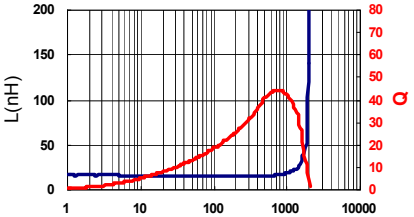
RDC<0.3Ω SRF:2500MHz IDC:300mA

CLH2012T-12NJ-S



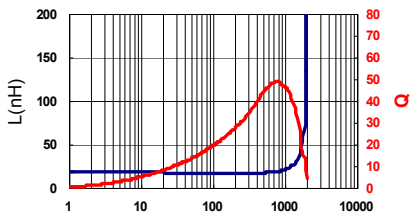
RDC<0.35Ω SRF:2450MHz IDC:300mA

CLH2012T-15NJ-S



RDC<0.4Ω SRF:2000MHz IDC:300mA

CLH2012T-18NJ-S



RDC<0.45Ω SER:1750MHz IDC:300mA

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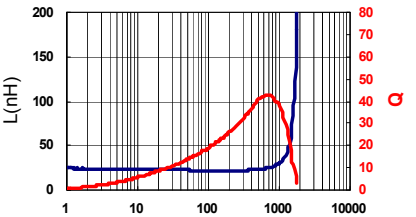
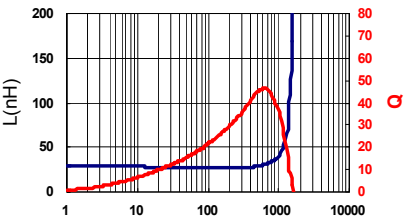


RDC<0.5Ω SRF:1700MHz IDC:300mA

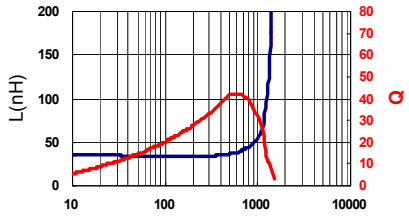
CLH2012T-27NJ-S



RDC<0.55Ω SRF:1550MHz IDC:300mA

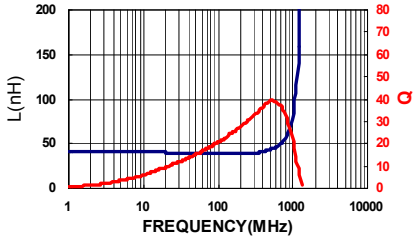
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CLH2012T-33NJ-S



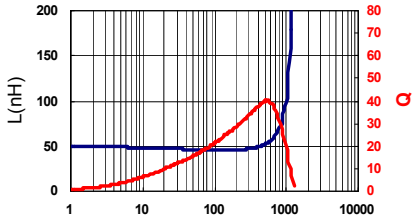
RDC<0.6Ω SRF:1350MHz IDC:300mA

CLH2012T-39NJ-S



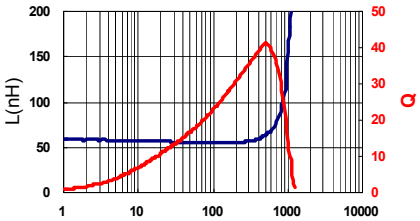
RDC<0.65Ω SRF:1300MHz IDC:300mA

CLH2012T-47NJ-S



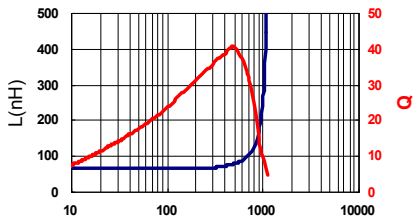
RDC<0.7Ω SRF:1200MHz IDC:300mA

CLH2012T-56NJ-S



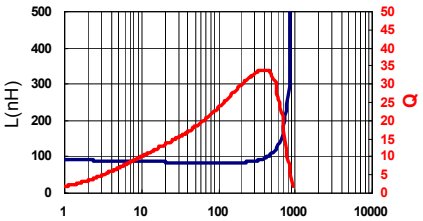
RDC<0.75Ω SRF:1150MHz IDC:300mA

CLH2012T-68NJ-S



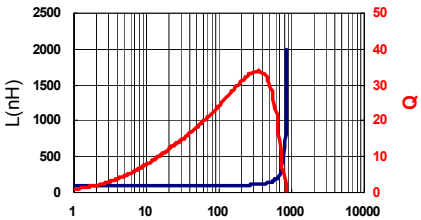
RDC<0.8Ω SRF:1000MHz IDC:300mA

CLH2012T-82NJ-S



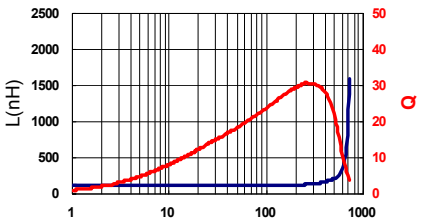
RDC<0.9Ω SRF:850MHz IDC:300mA

CLH2012T-R10J-S



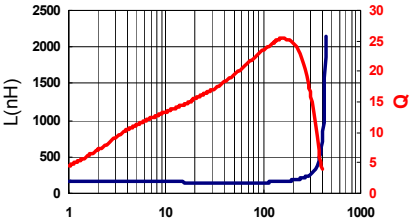
RDC<1Ω SRF:730MHz IDC:300mA

CLH2012T-R12J-S



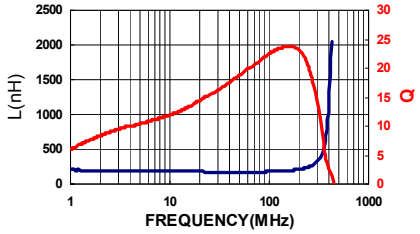
RDC<1.2Ω SRF:650MHz IDC:300mA

CLH2012T-R15J-S



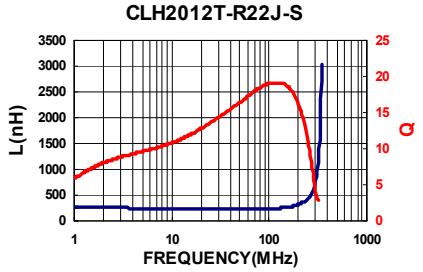
RDC<1.4Ω SRF:550MHz IDC:300mA

CLH2012T-R18J-S



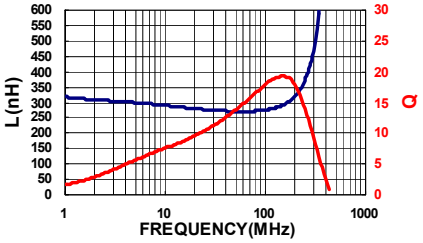
RDC<1.8Ω SRF:500MHz IDC:300mA

CLH2012T-R22J-S



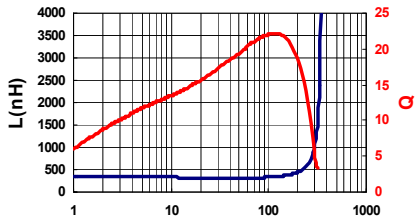
RDC<2Ω SRF:450MHz IDC:300mA

CLH2012T-R27J-S



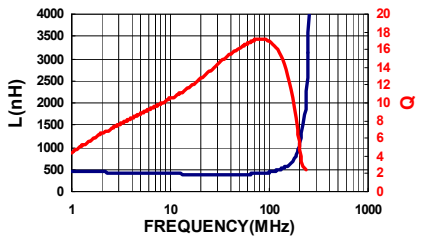
RDC<2.5Ω SRF:400MHz IDC:200mA

CLH2012T-R33J-S



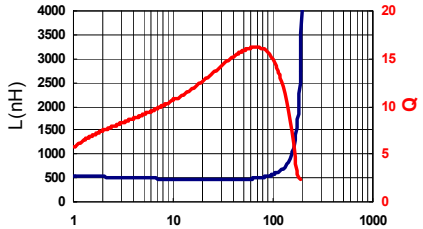
RDC<3Ω SRF:380MHz IDC:200mA

CLH2012T-R39J-S



RDC<3.5Ω SRF:330MHz IDC:200mA

CLH2012T-R47J-S



RDC<4Ω SRF:300MHz IDC:200mA

CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions

Figure A

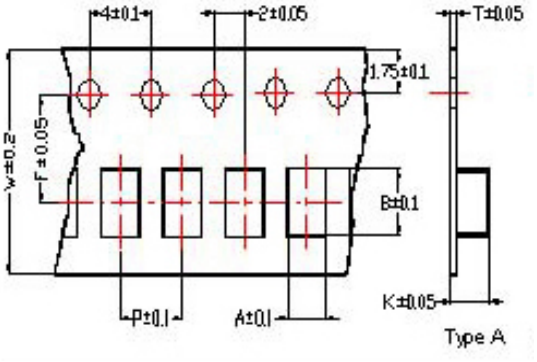
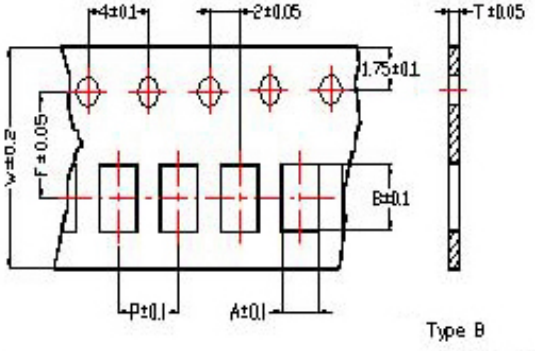


Figure B



Tape Material

Figure A

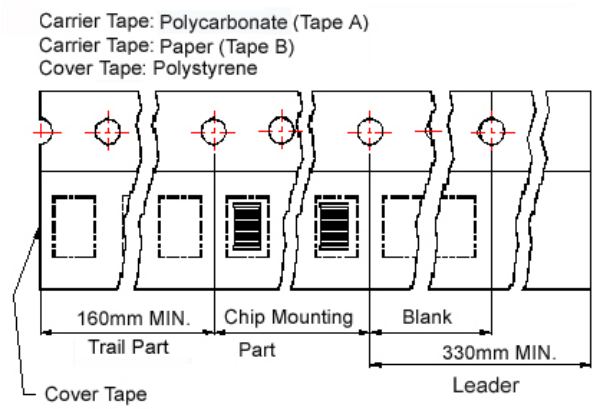
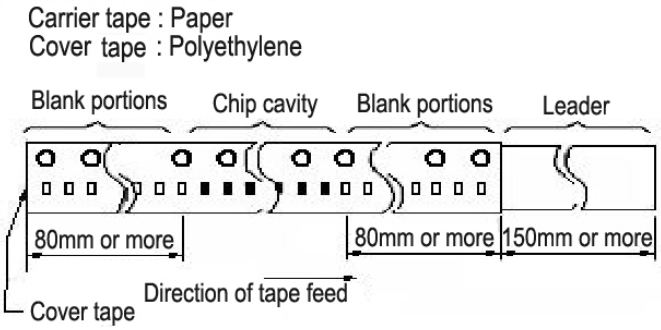
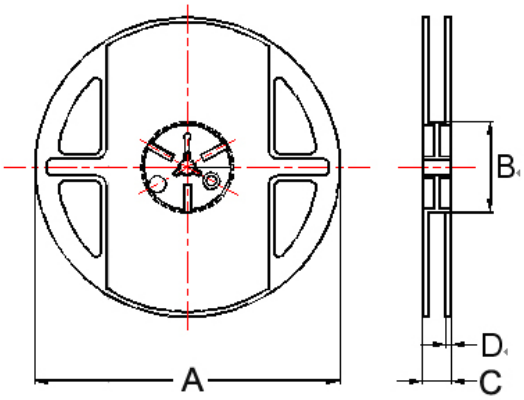


Figure B



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Tape	Tape	Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	Material	A	B	C	D	PCS / Reel
CLH0603	0.37	0.67	0.50	8	2	3.5		B	B	180	60	13	1.5	15000
CLH1005	0.65	1.12	0.60	8	2	3.5		B	A	178	60	12	1.5	10000
CLH1608	1.00	1.80	0.95	8	4	3.5		B	A	178	60	12	1.5	4000
CLH201209	1.58	2.42	0.95	8	4	3.5	1.04	A,B	A	178	60	12	1.5	4000
CLH201212	1.35	2.25	0.22	8	4	3.5	1.35	A	A	178	60	12	1.5	3000

CM Series

Due to accurate wire winding technology, these chip inductors are designed for filtering impedance matching, resonance and choke circuits for RF designer. Both standard series and custom designs are available.

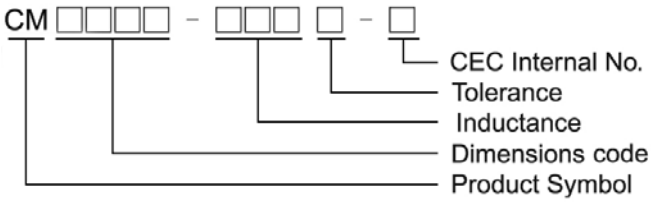
Features

- RoHS Compliant
- Ceramic body and wire wound construction provide high SRFs
- Exceptional Q value even at high frequencies
- Ceramic construction delivers the highest possible SRFs as well as high Q value
- Low DC resistance design supports low loss, high output and low power consumption
- CM series is standard for RF designers

Applications

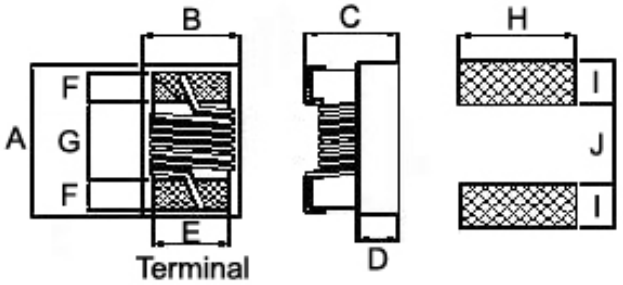
- RF products for cellular phone
- GPS receiver
- Base Station
- Repeater
- Wireless LAN/ mouse/ keyboard/ earphone
- Remote control
- Security system and other RF modules

Product Identification

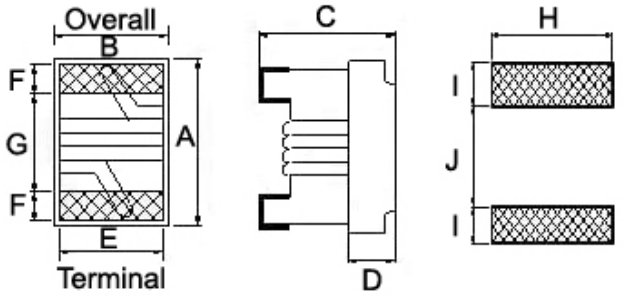


Shape and Dimensions / Recommended Pattern

CM0402



CM0603



Dimensions

	A Max	B Max	C Max	D	E	F	G	H	I	J
CM0402	1.05±0.05	0.60±0.05	0.5±0.05	0.25	0.40	0.20	0.54	0.56	0.36	0.46
CM0603	$1.6^{+0.2}_{-0.1}$	1.02±0.1	$0.82^{+0.2}_{-0.1}$	0.35	0.70	0.30	0.95	1.02	0.64	0.64

Electrical Characteristics

Part Number	Inductance (nH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (GHz) Min	Rdc (Ω) Max	Irms (mA) Max
CM0402-1N5□-N	1.5	100	±0.1nH/±0.2nH/±0.5nH	10	250	18.0	0.03	1000
CM0402-2N4□-N	2.4	100	±0.1nH/±0.2nH/±0.5nH	20	250	15.0	0.05	850
CM0402-2N5□-N	2.5	100	±0.1nH/±0.2nH/±0.5nH	20	250	15.0	0.05	850
CM0402-2N7□-N	2.7	100	±0.1nH/±0.2nH/±0.5nH	20	250	15.0	0.05	850
CM0402-2N9□-N	2.9	100	±0.1nH/±0.2nH/±0.5nH	20	250	15.0	0.07	750
CM0402-3N9□-N	3.9	100	±0.1nH/±0.2nH/±0.5nH	25	250	10.0	0.07	750
CM0402-4N1□-N	4.1	100	±0.1nH/±0.2nH/±0.5nH	25	250	10.0	0.07	750
CM0402-4N3□-N	4.3	100	±0.1nH/±0.2nH/±0.5nH	25	250	10.0	0.07	750
CM0402-4N7□-N	4.7	100	±0.1nH/±0.2nH/±0.5nH	25	250	8.0	0.07	750
CM0402-5N1□-N	5.1	100	±0.1nH/±0.2nH/±0.5nH	25	250	8.0	0.12	600
CM0402-5N8□-N	5.8	100	±0.1nH/±0.2nH/±0.5nH	25	250	8.0	0.12	700
CM0402-6N2□-N	6.2	100	±0.1nH/±0.2nH/±0.5nH	25	250	8.0	0.09	700
CM0402-6N8□-N	6.8	100	2 / 3 / 5	25	250	6.0	0.09	700
CM0402-7N3□-N	7.3	100	2 / 3 / 5	25	250	6.0	0.13	570
CM0402-7N5□-N	7.5	100	2 / 3 / 5	25	250	6.0	0.13	570
CM0402-8N2□-N	8.2	100	2 / 3 / 5	25	250	5.5	0.14	540
CM0402-8N7□-N	8.7	100	2 / 3 / 5	25	250	5.5	0.14	540
CM0402-9N1□-N	9.1	100	2 / 3 / 5	25	250	5.5	0.14	540
CM0402-9N5□-N	9.5	100	2 / 3 / 5	25	250	5.5	0.14	540
CM0402-10N□-N	10	100	2 / 3 / 5	25	250	5.5	0.17	500
CM0402-11N□-N	11	100	2 / 3 / 5	30	250	5.5	0.14	500
CM0402-12N□-N	12	100	2 / 3 / 5	30	250	5.5	0.14	500
CM0402-13N□-N	13	100	2 / 3 / 5	25	250	5.0	0.21	430
CM0402-15N□-N	15	100	2 / 3 / 5	30	250	5.0	0.16	460
CM0402-16N□-N	16	100	2 / 3 / 5	25	250	4.5	0.24	370
CM0402-18N□-N	18	100	2 / 3 / 5	25	250	4.5	0.27	370
CM0402-19N□-N	19	100	2 / 3 / 5	25	250	4.5	0.27	370
CM0402-20N□-N	20	100	2 / 3 / 5	25	250	4.0	0.27	370
CM0402-22N□-N	22	100	2 / 3 / 5	25	250	4.0	0.30	310
CM0402-23N□-N	23	100	2 / 3 / 5	25	250	3.8	0.30	310
CM0402-24N□-N	24	100	2 / 3 / 5	25	250	3.5	0.52	280
CM0402-27N□-N	27	100	2 / 3 / 5	25	250	3.5	0.52	280
CM0402-30N□-N	30	100	2 / 3 / 5	25	250	3.3	0.58	270
CM0402-33N□-N	33	100	2 / 3 / 5	25	250	3.2	0.63	260
CM0402-36N□-N	36	100	2 / 3 / 5	25	250	3.1	0.63	260
CM0402-39N□-N	39	100	2 / 3 / 5	25	250	3.0	0.70	250
CM0402-40N□-N	40	100	2 / 3 / 5	25	250	3.0	0.70	250
CM0402-47N□-N	47	100	2 / 3 / 5	25	200	2.9	1.08	210
CM0402-51N□-N	51	100	2 / 3 / 5	25	200	2.85	1.08	210
CM0402-56N□-N	56	100	2 / 3 / 5	25	200	2.80	1.17	200
CM0402-62N□-N	62	100	2 / 5	20	200	2.60	1.82	145
CM0402-68N□-N	68	100	2 / 5	20	200	2.50	1.96	140
CM0402-72N□-N	72	100	2 / 5	20	150	2.50	2.10	135

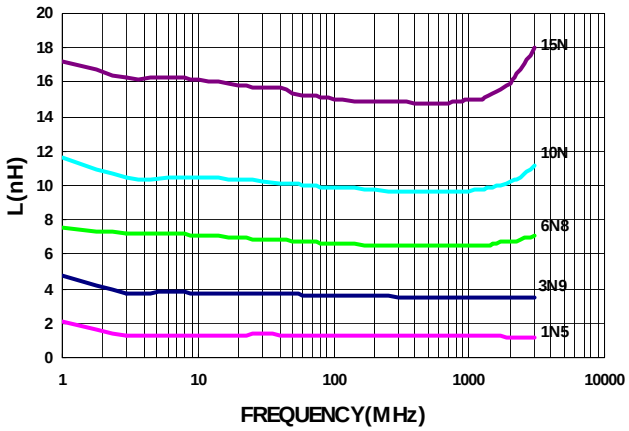
- When ordering, please specify tolerance and packaging codes.
- Tolerance : G = ±2% , J = ±5% , B = ±0.1nH , C = ±0.2nH , D = ±0.3nH
- L , Q : Agilent E4991A + Agilent HP16197A
- SRF : Agilent/HP8753D / Agilent/HP8722ES
- Rdc : Chroma16502
- Irms for a 15℃ rise above 25℃ ambient.
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Electrical Characteristics

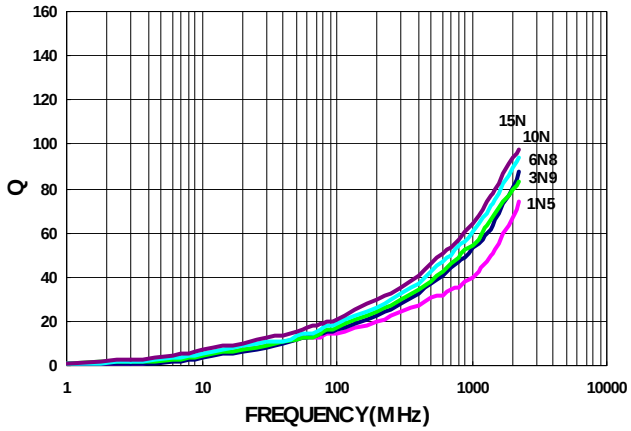
Part Number	Inductance (nH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (GHz) Min	Rdc (Ω) Max	Irms (mA) Max
CM0402-75N□-N	75	100	2 / 5	20	150	2.40	2.10	135
CM0402-82N□-N	82	100	2 / 5	20	150	2.30	2.24	130
CM0402-91N□-N	91	100	2 / 5	20	150	2.10	2.38	125
CM0402-R10□-N	100	100	5	20	150	1.50	2.52	120
CM0402-R12□-N	120	100	5	20	150	1.00	2.66	110

- When ordering, please specify tolerance and packaging codes.
- Tolerance : G = ±2% , J = ±5% , B = ±0.1nH , C = ±0.2nH , D = ±0.3nH ,
- L , Q : Agilent E4991A + Agilent HP16197A
- SRF : Agilent/HP8753D / Agilent/HP8722ES
- Rdc : Chroma16502
- Irms for a 15℃ rise above 25℃ ambient.
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Typical L vs. Frequency



Typical Q vs. Frequency



Electrical Characteristics

Part Number	Inductance (nH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (GHz) Min	Rdc (Ω) Max	Irms (mA) Max
CM0603-2N2□-N	2.2	100	±0.5nH	16	250	6.0	0.049	700
CM0603-3N6□-N	3.6	100	±0.2nH/±0.5nH	25	250	6.0	0.059	850
CM0603-3N9□-N	3.9	100	±0.2nH/±0.5nH	35	250	6.0	0.059	850
CM0603-4N3□-N	4.3	100	±0.2nH/±0.5nH	35	250	6.0	0.059	850
CM0603-4N7□-N	4.7	100	±0.5nH	35	250	6.0	0.059	850
CM0603-5N6□-N	5.6	100	±0.2nH/±0.5nH	35	250	6.0	0.082	750
CM0603-6N2□-N	6.2	100	±0.2nH/±0.5nH	35	250	6.0	0.082	750
CM0603-6N8□-N	6.8	100	±0.2nH/±0.5nH	35	250	6.0	0.082	750
CM0603-7N5□-N	7.5	100	±0.5nH	35	250	6.0	0.082	750
CM0603-8N2□-N	8.2	100	±0.5nH	35	250	6.0	0.110	650
CM0603-8N7□-N	8.7	100	±0.5nH	35	250	6.0	0.110	650
CM0603-9N1□-N	9.1	100	±0.5nH	35	250	6.0	0.110	650
CM0603-9N5□-N	9.5	100	±0.5nH	35	250	6.0	0.110	650
CM0603-10N□-N	10	100	2 / 5	35	250	6.0	0.110	650
CM0603-11N□-N	11	100	2 / 5	35	250	6.0	0.110	650
CM0603-12N□-N	12	100	2 / 5	35	250	6.0	0.130	600
CM0603-13N□-N	13	100	2 / 5	35	250	6.0	0.130	600
CM0603-15N□-N	15	100	2 / 5	40	250	6.0	0.130	600
CM0603-16N□-N	16	100	2 / 5	40	250	5.5	0.160	550
CM0603-18N□-N	18	100	2 / 5	40	250	5.5	0.160	550
CM0603-20N□-N	20	100	2 / 5	40	250	4.9	0.160	550
CM0603-22N□-N	22	100	2 / 5	40	250	4.6	0.170	500
CM0603-24N□-N	24	100	2 / 5	40	250	3.8	0.210	500
CM0603-27N□-N	27	100	2 / 5	40	250	3.7	0.210	440
CM0603-30N□-N	30	100	2 / 5	40	250	3.3	0.230	420
CM0603-33N□-N	33	100	2 / 5	40	250	3.2	0.230	420
CM0603-36N□-N	36	100	2 / 5	40	250	2.9	0.260	400
CM0603-39N□-N	39	100	2 / 5	40	250	2.8	0.260	400
CM0603-43N□-N	43	100	2 / 5	40	200	2.7	0.290	380
CM0603-47N□-N	47	100	2 / 5	38	200	2.6	0.290	380
CM0603-51N□-N	51	100	2 / 5	38	200	2.5	0.330	370
CM0603-56N□-N	56	100	2 / 5	38	200	2.4	0.350	360
CM0603-62N□-N	62	100	2 / 5	38	200	2.3	0.510	280
CM0603-68N□-N	68	100	2 / 5	38	200	2.2	0.380	340
CM0603-72N□-N	72	100	2 / 5	38	150	2.1	0.560	270
CM0603-75N□-N	75	100	2 / 5	34	150	2.05	0.560	270
CM0603-82N□-N	82	100	2 / 5	34	150	2.00	0.600	250
CM0603-91N□-N	91	100	2 / 5	34	150	1.90	0.640	230
CM0603-R10□-N	100	100	2 / 5	34	150	1.80	0.680	220
CM0603-R11□-N	110	100	2 / 5	32	150	1.70	1.200	200
CM0603-R12□-N	120	100	2 / 5	32	150	1.60	1.300	180
CM0603-R13□-N	130	100	2 / 5	32	150	1.45	1.400	170
CM0603-R15□-N	150	100	2 / 5	32	150	1.40	1.500	160

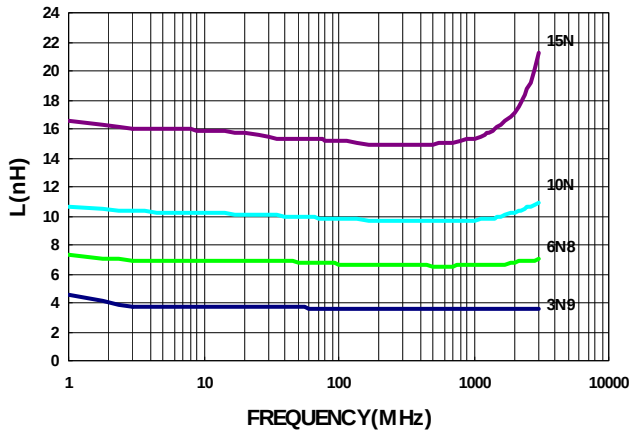
- When orderig, please specify tolerance and packaging codes.
- Tolerance : G = ±2% , J = ±5% , K = ±10% , C = ±0.2nH , D = ±0.5nH
- L , Q : Agilent E4991A + Agilent HP16197A
- SRF : Agilent/HP8753D / Agilent/HP8722ES
- Rdc : Chroma16502
- Irms for a 15℃ rise above 25℃ ambient.
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Electrical Characteristics

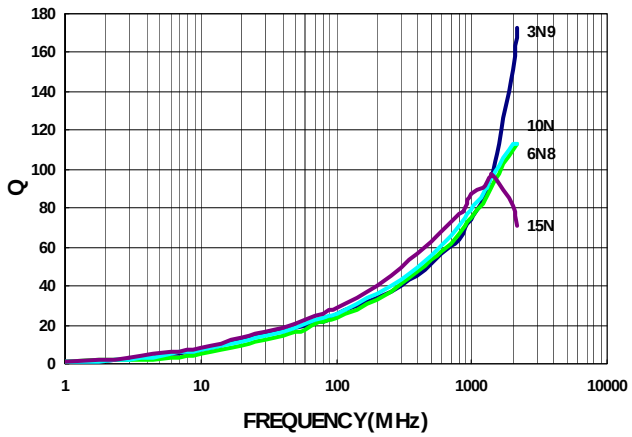
Part Number	Inductance (Nh)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (GHz) Min	Rdc (Ω) Max	Irms (mA) Max
CM0603-R16□-N	160	100	2 / 5	25	100	1.35	2.100	150
CM0603-R18□-N	180	100	2 / 5	25	100	1.30	2.200	140
CM0603-R20□-N	200	100	2 / 5	25	100	1.25	2.400	120
CM0603-R22□-N	220	100	2 / 5	25	100	1.20	2.500	120
CM0603-R27□-N	270	100	2 / 5	30	100	0.96	3.400	110
CM0603-R33□-N	330	100	2 / 5	30	100	0.80	5.500	85
CM0603-R39□-N	390	100	2 / 5	30	100	0.80	6.200	80
CM0603-R47□-N	470	100	2 / 5	30	100	0.70	7.000	75

- When orderig, please specify tolerance and packaging codes.
- Tolerance : G = ±2% , J = ±5% , K = ±10% , C = ±0.2nH , D = ±0.5nH
- L , Q : Agilent E4991A + Agilent HP16197A
- SRF : Agilent/HP8753D / Agilent/HP8722ES
- Rdc : Chroma16502
- Irms for a 15℃ rise above 25℃ ambient.
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Typical L vs. Frequency



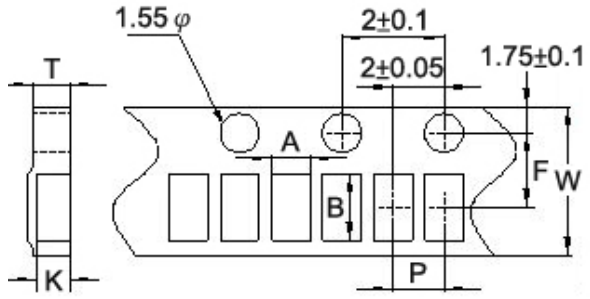
Typical Q vs. Frequency



Packaging Specifications

Tape Dimensions

Figure 1



Tape Material

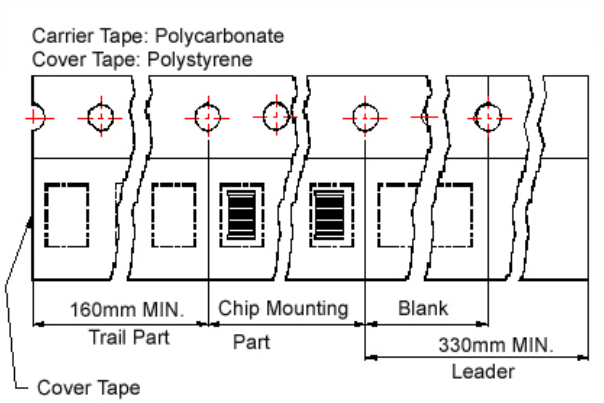
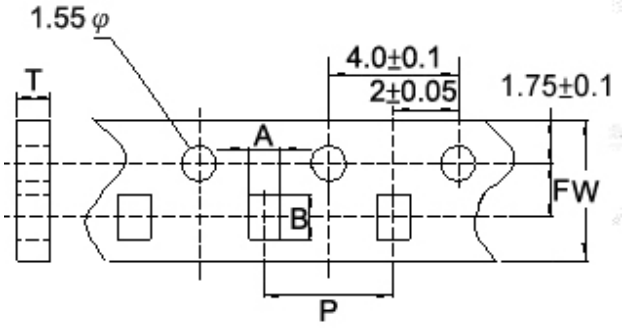
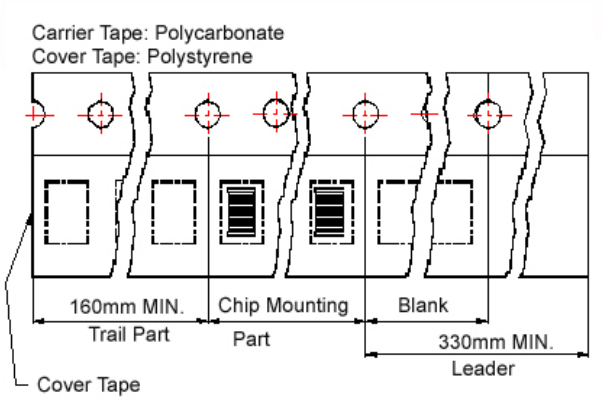
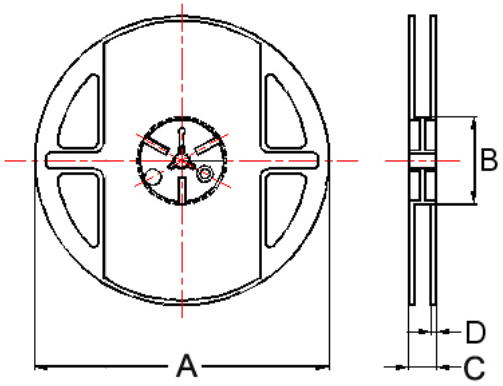


Figure 2





Reel Dimensions



Dimensions in mm

TYPE	Fig.	Tape Dimensions							Reel Dimensions				Quantity
		A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
CM0402	1	0.67	1.20	0.75	8	2	3.5	0.53	178	60	12	1.5	4000
CM0603	2	1.16	1.85	0.95	8	4	3.5	-	178	60	12	1.5	4000

CS Series

Due to accurate wire winding technology, these chip inductors are designed for filtering, impedance matching, resonance and choke circuits for RF designer. Both standard series custom designs are available.

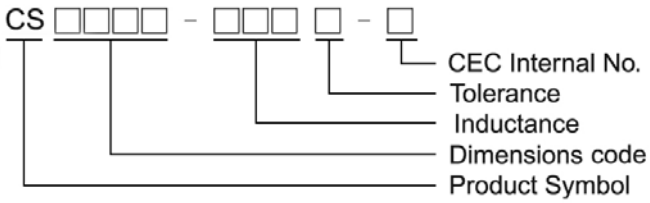
Features

- RoHS Compliant
- Ceramic body and wire wound construction provide high SRFs
- Exceptional Q values even at high frequencies
- Highest possible SRFs as well as excellent Q values
- The non-magnetic coil form assures utmost thermal stability, predictability and batch consistency
- CS series is standard for RF designers

Applications

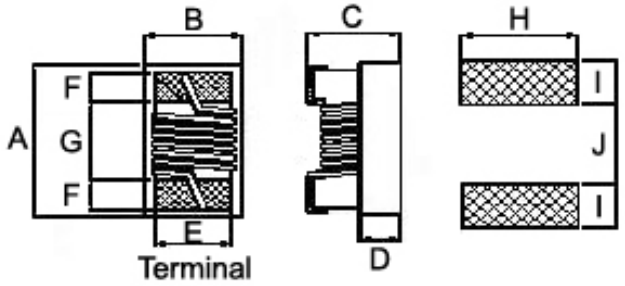
- RF products for cellular phone
- GPS receiver
- Base Station
- Repeater
- Wireless LAN/ mouse/ keyboard/ earphone
- Remote control
- Security system and other RF modules

Product Identification

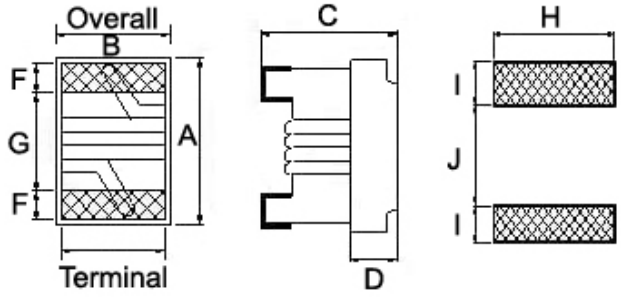


Shape and Dimensions / Recommended Pattern

CS0402



CS0603/0805/1008



Dimensions

		A Max	B Max	C Max	D	E	F	G	H	I	J
CS0402	inch	0.047	0.028	0.026	0.010	0.020	0.009	0.022	0.026	0.014	0.018
	mm	1.19	0.70	0.66	0.25	0.51	0.23	0.56	0.66	0.36	0.46
CS0805	inch	0.093	0.068	0.06	0.028	0.050	0.020	0.040	0.070	0.040	0.030
	mm	2.35	1.73	1.52	0.71	1.27	0.51	1.02	1.78	1.02	0.76
CS1008	inch	0.115	0.110	0.083	0.046	0.080	0.020	0.060	0.100	0.040	0.050
	mm	2.92	2.79	2.1	1.16	2.03	0.51	1.52	2.54	1.02	1.27

		A	B	C	D	E	F	G	H	I	J
CS0603	mm	$1.6^{+0.2}_{-0.1}$	1.02±0.1	$0.82^{+0.2}_{-0.1}$	0.51	0.76	0.33	0.86	1.02	0.64	0.64

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Q Min	900MHz		1.7GHz		SRF (GHz) Min	Rdc (Ω) Max	Irms (mA) Max
				L Typ.	Q Typ.	L Typ.	Q Typ.			
CS0402-1N0□-S	1.0	10 / 5	16	1.02	77	1.02	69	12.70	0.045	1360
CS0402-1N9□-S	1.9	10 / 5	16	1.72	68	1.74	82	11.30	0.070	1040
CS0402-2N0□-S	2.0	10 / 5	16	1.93	54	1.93	75	11.10	0.070	1040
CS0402-2N2□-S	2.2	10 / 5	19	2.19	59	2.23	100	10.80	0.070	960
CS0402-2N4□-S	2.4	10 / 5	15	2.24	51	2.27	68	10.50	0.068	790
CS0402-2N7□-S	2.7	10 / 5	16	2.58	42	2.60	61	10.40	0.120	640
CS0402-3N3□-S	3.3	10 / 5	19	3.10	65	3.12	87	7.00	0.066	840
CS0402-3N6□-S	3.6	10 / 5	19	3.56	45	3.62	71	6.80	0.066	840
CS0402-3N9□-S	3.9	10 / 5	19	3.89	50	4.00	75	6.00	0.066	840
CS0402-4N3□-S	4.3	10 / 5	18	4.19	47	4.30	71	6.00	0.091	700
CS0402-4N7□-S	4.7	10 / 5	15	4.55	48	4.68	68	4.77	0.130	640
CS0402-5N1□-S	5.1	10 / 5	20	5.15	56	5.25	82	4.80	0.083	800
CS0402-5N6□-S	5.6	10 / 5	20	5.16	54	5.28	81	4.80	0.083	760
CS0402-6N2□-S	6.2	10 / 5	20	6.16	52	6.37	76	4.80	0.083	760
CS0402-6N8□-S	6.8	10 / 5	20	6.56	63	6.93	78	4.80	0.083	680
CS0402-7N5□-S	7.5	10 / 5	22	7.91	60	8.22	88	4.80	0.10	680
CS0402-8N2□-S	8.2	10 / 5	22	8.50	57	8.85	84	4.40	0.10	680
CS0402-8N7□-S	8.7	10 / 5	18	8.78	54	9.21	73	4.10	0.20	480
CS0402-9N0□-S	9.0	10 / 5	22	9.07	62	9.53	78	4.16	0.10	680
CS0402-9N5□-S	9.5	10 / 5	18	9.42	54	9.98	69	4.00	0.20	480
CS0402-10N□-S	10	10 / 5	21	9.8	50	10.10	67	3.90	0.20	480
CS0402-11N□-S	11	10 / 5	24	10.7	52	11.20	78	3.68	0.12	640
CS0402-12N□-S	12	10 / 5	24	11.9	53	12.70	71	3.60	0.12	640
CS0402-13N□-S	13	10 / 5	24	13.4	51	14.63	57	3.45	0.21	440
CS0402-15N□-S	15	10 / 5	24	14.6	55	15.50	77	3.28	0.17	560
CS0402-16N□-S	16	10 / 5	24	16.6	46	18.86	47	3.10	0.22	560
CS0402-18N□-S	18	10 / 5	25	18.3	57	20.28	62	3.10	0.23	420
CS0402-19N□-S	19	10 / 5	24	19.1	50	21.10	67	3.04	0.20	480
CS0402-20N□-S	20	10 / 5	25	20.7	52	23.66	53	3.00	0.25	420
CS0402-22N□-S	22	10 / 5	25	23.2	53	26.75	53	2.80	0.30	400
CS0402-23N□-S	23	10 / 5	22	23.8	49	26.90	64	2.72	0.30	400
CS0402-24N□-S	24	10 / 5	25	25.1	51	29.50	50	2.70	0.30	400
CS0402-27N□-S	27	10 / 5	24	28.7	49	33.50	63	2.48	0.30	400
CS0402-30N□-S	30	10 / 5	25	31.1	46	38.50	39	2.35	0.35	400
CS0402-33N□-S	33	10 / 5	24	34.9	31	41.74	32	2.35	0.40	400
CS0402-36N□-S	36	10 / 5	24	39.5	44	48.40	53	2.32	0.44	320
CS0402-39N□-S	39	10 / 5	25	41.7	47	50.23	45	2.10	0.55	200
CS0402-40N□-S	40	10 / 5	24	39.0	44	47.40	33	2.24	0.65	320
CS0402-43N□-S	43	10 / 5	25	45.8	46	61.55	34	2.03	0.81	100
CS0402-47N□-S	47	10 / 5	20	50.0	38	-	-	2.10	0.83	150
CS0402-51N□-S	51	10 / 5	25	56.6	40	-	-	1.75	0.82	100
CS0402-56N□-S	56	10 / 5	22	62.8	42	-	-	1.76	0.97	100
CS0402-68N□-S	68	10 / 5	22	78.2	36	-	-	1.62	1.12	100
CS0402-82N□-S	82	10 / 5	20	-	-	-	-	1.26	1.55	50
CS0402-R10□-S	100	10 / 5	20	-	-	-	-	1.16	2.00	30

- When ordering, please specify tolerance and packaging codes.
- Tolerance : J = ±5% , K = ±10%
- L , Q : Agilent E4991A+AgilentHP16197A @250MHz
- SRF : Agilent/HP8753D / Agilent/HP8722ES
- Rdc : HP4287A
- Irms for a 15℃ rise above 25℃ ambient.

Electrical Characteristics

Part Number	Inductance (nH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	SRF (MHz) Min	Rdc (Ω) Max	Irms (mA) Max	900 MHz		1.7 GHz		Color
								L Typ.	Q Typ.	L Typ.	Q Typ.	
CS0603-1N6□-S	1.6	250	10 / 5	24	12500	0.030	700	1.67	49	1.65	63	Red
CS0603-1N8□-S	1.8	250	10 / 5	16	12500	0.045	700	1.63	35	1.66	50	Black
CS0603-3N6□-S	3.6	250	10 / 5	22	5900	0.063	700	3.72	53	3.71	65	Red
CS0603-3N9□-S	3.9	250	10 / 5	22	6900	0.080	700	3.95	49	3.96	67	Brown
CS0603-4N3□-S	4.3	250	10 / 5	22	5900	0.063	700	4.32	50	4.33	70	Orange
CS0603-4N7□-S	4.7	250	10 / 5	20	5800	0.116	700	4.72	47	4.75	57	Violet
CS0603-5N1□-S	5.1	250	10 / 5	20	5700	0.140	700	4.93	47	4.95	56	Green
CS0603-5N6□-S	5.6	250	10 / 5	20	5800	0.170	700	5.53	56	5.86	77	Yellow
CS0603-6N3□-S	6.3	250	10 / 5	20	5700	0.140	700	5.50	47	6.10	60	White
CS0603-6N8□-S	6.8	250	10 / 5	27	5800	0.110	700	6.75	60	7.10	81	Red
CS0603-7N5□-S	7.5	250	10 / 5	28	4800	0.106	700	7.70	60	7.82	65	Brown
CS0603-8N2□-S	8.2	250	10 / 5	28	4700	0.109	700	8.30	60	8.50	60	White
CS0603-8N7□-S	8.7	250	10 / 5	28	4600	0.109	700	8.86	62	9.32	58	Yellow
CS0603-9N5□-S	9.5	250	10 / 5	28	5400	0.135	700	9.70	59	9.92	61	Blue
CS0603-10N□-S	10	250	10 / 5 / 2	31	4800	0.130	700	10.0	66	10.6	83	Orange
CS0603-11N□-S	11	250	10 / 5 / 2	33	4000	0.086	700	11.0	53	11.5	56	Gray
CS0603-12N□-S	12	250	10 / 5 / 2	35	4000	0.130	700	12.3	72	13.5	83	Yellow
CS0603-15N□-S	15	250	10 / 5 / 2	35	4000	0.170	700	15.4	64	16.8	89	Green
CS0603-16N□-S	16	250	10 / 5 / 2	34	3300	0.104	700	16.2	55	17.3	52	White
CS0603-18N□-S	18	250	10 / 5 / 2	35	3100	0.170	700	18.7	70	21.4	69	Blue
CS0603-22N□-S	22	250	10 / 5 / 2	38	3000	0.190	700	22.8	73	26.1	71	Violet
CS0603-24N□-S	24	250	10 / 5 / 2	37	2650	0.135	700	24.5	45	28.7	39	Black
CS0603-27N□-S	27	250	10 / 5 / 2	40	2800	0.220	600	29.2	74	34.6	65	Gray
CS0603-30N□-S	30	250	10 / 5 / 2	37	2250	0.144	600	31.4	47	39.9	28	Brown
CS0603-33N□-S	33	250	10 / 5 / 2	40	2300	0.220	600	36	67	49.5	42	White
CS0603-36N□-S	36	250	10 / 5 / 2	38	2080	0.250	600	39.4	47	52.7	24	Red
CS0603-39N□-S	39	250	10 / 5 / 2	40	2200	0.250	600	42.7	60	60.2	40	Black
CS0603-43N□-S	43	250	10 / 5 / 2	39	2000	0.280	600	47	44	64.9	21	Orange
CS0603-47N□-S	47	200	10 / 5 / 2	38	2000	0.280	600	52.2	62	77.2	35	Brown
CS0603-56N□-S	56	200	10 / 5 / 2	38	1900	0.310	600	62.5	56	97	26	Red
CS0603-68N□-S	68	200	10 / 5 / 2	37	1700	0.340	600	80.5	54	168	21	Orange
CS0603-72N□-S	72	150	10 / 5 / 2	34	1700	0.490	400	82	53	135	20	Yellow
CS0603-82N□-S	82	150	10 / 5 / 2	34	1700	0.540	400	96.2	54	177	21	Green
CS0603-R10□-S	100	150	10 / 5 / 2	34	1400	0.580	400	124	49	-	-	Blue
CS0603-R11□-S	110	150	10 / 5 / 2	32	1350	0.610	300	138	43	-	-	Violet
CS0603-R12□-S	120	150	10 / 5 / 2	32	1300	0.750	300	166	39	-	-	Gray
CS0603-R15□-S	150	150	10 / 5 / 2	28	990	0.920	280	250	25	-	-	White
CS0603-R18□-S	180	100	10 / 5 / 2	25	990	1.250	240	305	22	-	-	Black
CS0603-R22□-S	220	100	10 / 5 / 2	25	900	2.100	200	-	-	-	-	Brown
CS0603-R27□-S	270	100	10 / 5 / 2	24	900	2.800	170	-	-	-	-	Red
CS0603-R33□-S	330	100	10 / 5 / 2	25	900	3.890	100	-	-	-	-	Orange
CS0603-R39□-S	390	100	10 / 5 / 2	25	900	4.350	100	-	-	-	-	Yellow

- When ordering, please specify tolerance and packaging codes.
- Tolerance : G = ±2% , J = ±5% , K = ±10%
- Packaging: Clear tape and reel {standard}.
- L /Q: Agilent E4991A + AgilentHP16197A
- SRF: HP8753D/ HP4291A
- RDC: CH502BC/ HP4338B
- Irms for a 15℃ rise above 25℃ ambient.
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Electrical Characteristics

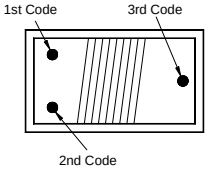
Part Number	Inductance (nH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	Rdc (Ω) Max	Irms (mA) Max	Color
CS0805-2N8□-S	2.8	250	10 / 5	80	1500	7900	0.06	800	Gray
CS0805-3N0□-S	3.0	250	10 / 5	65	1500	7900	0.06	800	White
CS0805-3N3□-S	3.3	250	10 / 5	50	1500	7900	0.08	600	Black
CS0805-5N6□-S	5.6	250	10 / 5	65	1000	5500	0.08	600	Orange
CS0805-6N8□-S	6.8	250	10 / 5	50	1000	5500	0.11	600	Brown
CS0805-7N5□-S	7.5	250	10 / 5	50	1000	4500	0.14	600	Green
CS0805-8N2□-S	8.2	250	10 / 5	50	1000	4700	0.12	600	Red
CS0805-10N□-S	10	250	10 / 5 / 2	60	500	4200	0.10	600	Blue
CS0805-12N□-S	12	250	10 / 5 / 2	50	500	4000	0.15	600	Orange
CS0805-15N□-S	15	250	10 / 5 / 2	50	500	3400	0.17	600	Yellow
CS0805-18N□-S	18	250	10 / 5 / 2	50	500	3300	0.20	600	Green
CS0805-22N□-S	22	250	10 / 5 / 2	55	500	2600	0.22	500	Blue
CS0805-24N□-S	24	250	10 / 5 / 2	50	500	2000	0.22	500	Gray
CS0805-27N□-S	27	250	10 / 5 / 2	55	500	2500	0.25	500	Violet
CS0805-33N□-S	33	250	10 / 5 / 2	60	500	2050	0.27	500	Gray
CS0805-36N□-S	36	250	10 / 5 / 2	55	500	1700	0.27	500	Orange
CS0805-39N□-S	39	250	10 / 5 / 2	60	500	2000	0.29	500	White
CS0805-43N□-S	43	200	10 / 5 / 2	60	500	1650	0.34	500	Yellow
CS0805-47N□-S	47	200	10 / 5 / 2	60	500	1650	0.31	500	Black
CS0805-56N□-S	56	200	10 / 5 / 2	60	500	1550	0.34	500	Brown
CS0805-68N□-S	68	200	10 / 5 / 2	60	500	1450	0.38	500	Red
CS0805-82N□-S	82	150	10 / 5 / 2	65	500	1300	0.42	400	Orange
CS0805-91N□-S	91	150	10 / 5 / 2	65	500	1200	0.48	400	Black
CS0805-R10□-S	100	150	10 / 5 / 2	65	500	1200	0.46	400	Yellow
CS0805-R11□-S	110	150	10 / 5 / 2	50	250	1000	0.48	400	Brown
CS0805-R12□-S	120	150	10 / 5 / 2	50	250	1100	0.51	400	Green
CS0805-R15□-S	150	100	10 / 5 / 2	50	250	920	0.56	400	Blue
CS0805-R18□-S	180	100	10 / 5 / 2	50	250	870	0.64	400	Violet
CS0805-R20□-S	200	100	10 / 5 / 2	50	250	860	0.68	400	Red
CS0805-R22□-S	220	100	10 / 5 / 2	50	250	850	0.70	400	Gray
CS0805-R24□-S	240	100	10 / 5 / 2	44	250	690	1.00	350	Red
CS0805-R25□-S	250	100	10 / 5 / 2	45	250	660	1.20	350	Yellow
CS0805-R27□-S	270	100	10 / 5 / 2	48	250	650	1.00	350	White
CS0805-R33□-S	330	100	10 / 5 / 2	48	250	600	1.40	310	Black
CS0805-R39□-S	390	100	10 / 5 / 2	48	250	560	1.50	290	Brown
CS0805-R47□-S	470	50	10 / 5 / 2	33	100	375	1.76	250	Violet
CS0805-R56□-S	560	25	10 / 5 / 2	23	50	340	1.90	230	Orange
CS0805-R62□-S	620	25	10 / 5 / 2	23	50	220	2.20	210	Yellow
CS0805-R68□-S	680	25	10 / 5 / 2	23	50	188	2.20	190	Green
CS0805-R82□-S	820	25	10 / 5 / 2	23	50	215	2.35	180	Blue
CS0805-1R0□-S	1000	25	10 / 5 / 2	20	50	100	2.50	170	Gray
CS0805-1R2□-S	1200	7.9	10 / 5 / 2	18	25	100	2.50	170	White

- When ordering, please specify tolerance and packaging codes.
- Tolerance : G = ±2% , J = ±5% , K = ±10%
- L/Q: Agilent E4991A +AgilentHP16197A
- SRF: Agilent/HP8753D / Agilent/HP4291A
- RDC: CH502BC/ HP4338B
- Irms for a 15℃ rise above 25℃ ambient.
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Electrical Characteristics

Part Number	Inductance (nH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	Rdc (Ω) Max	Irms (mA) Max	Color Coding 1ST	2ND	3RD
CS1008-10N□-S	10	50	10 / 5 / 2	50	500	4100	0.08	1000	Brown	Black	Black
CS1008-12N□-S	12	50	10 / 5 / 2	50	500	3300	0.09	1000	Brown	Red	Black
CS1008-15N□-S	15	50	10 / 5 / 2	50	500	2500	0.10	1000	Brown	Green	Black
CS1008-18N□-S	18	50	10 / 5 / 2	50	350	2500	0.11	1000	Brown	Gray	Black
CS1008-22N□-S	22	50	10 / 5 / 2	55	350	2400	0.12	1000	Red	Red	Black
CS1008-27N□-S	27	50	10 / 5 / 2	55	350	1600	0.13	1000	Red	Violet	Black
CS1008-33N□-S	33	50	10 / 5 / 2	60	350	1600	0.14	1000	Orange	Orange	Black
CS1008-39N□-S	39	50	10 / 5 / 2	60	350	1500	0.15	1000	Orange	White	Black
CS1008-47N□-S	47	50	10 / 5 / 2	65	350	1500	0.16	1000	Yellow	Violet	Black
CS1008-56N□-S	56	50	10 / 5 / 2	65	350	1300	0.18	1000	Green	Blue	Black
CS1008-68N□-S	68	50	10 / 5 / 2	65	350	1300	0.20	1000	Blue	Gray	Black
CS1008-82N□-S	82	50	10 / 5 / 2	60	350	1000	0.22	1000	Gray	Red	Black
CS1008-R10□-S	100	25	10 / 5 / 2	60	350	1000	0.56	650	Brown	Black	Brown
CS1008-R12□-S	120	25	10 / 5 / 2	60	350	950	0.63	650	Brown	Red	Brown
CS1008-R15□-S	150	25	10 / 5 / 2	45	100	850	0.70	580	Brown	Green	Brown
CS1008-R18□-S	180	25	10 / 5 / 2	45	100	750	0.77	620	Brown	Gray	Brown
CS1008-R22□-S	220	25	10 / 5 / 2	45	100	700	0.84	500	Red	Red	Brown
CS1008-R27□-S	270	25	10 / 5 / 2	45	100	600	0.91	500	Red	Violet	Brown
CS1008-R33□-S	330	25	10 / 5 / 2	45	100	570	1.05	450	Orange	Orange	Brown
CS1008-R39□-S	390	25	10 / 5 / 2	45	100	500	1.12	470	Orange	White	Brown
CS1008-R47□-S	470	25	10 / 5 / 2	45	100	450	1.19	470	Yellow	Violet	Brown
CS1008-R56□-S	560	25	10 / 5 / 2	45	100	415	1.33	400	Green	Blue	Brown
CS1008-R62□-S	620	25	10 / 5 / 2	45	100	375	1.40	300	Blue	Red	Brown
CS1008-R68□-S	680	25	10 / 5 / 2	45	100	375	1.47	400	Blue	Gray	Brown
CS1008-R75□-S	750	25	10 / 5 / 2	45	100	360	1.54	360	Violet	Green	Brown
CS1008-R82□-S	820	25	10 / 5 / 2	45	100	350	1.61	400	Gray	Red	Brown
CS1008-R91□-S	910	25	10 / 5 / 2	35	50	320	1.68	380	White	Brown	Brown
CS1008-1R0□-S	1000	25	10 / 5 / 2	35	50	290	1.75	370	Brown	Black	Red
CS1008-1R2□-S	1200	7.9	10 / 5 / 2	35	50	250	2.0	310	Brown	Red	Red
CS1008-1R5□-S	1500	7.9	10 / 5 / 2	28	50	200	2.3	330	Brown	Green	Red
CS1008-1R8□-S	1800	7.9	10 / 5 / 2	28	50	160	2.6	300	Brown	Gray	Red
CS1008-2R2□-S	2200	7.9	10 / 5 / 2	28	50	160	2.8	280	Red	Red	Red
CS1008-2R7□-S	2700	7.9	10 / 5 / 2	22	25	140	3.2	290	Red	Violet	Red
CS1008-3R3□-S	3300	7.9	10 / 5 / 2	22	25	110	3.4	290	Orange	Orange	Red
CS1008-3R9□-S	3900	7.9	10 / 5 / 2	20	25	100	3.6	260	Orange	White	Red
CS1008-4R7□-S	4700	7.9	10 / 5 / 2	20	25	90	4.0	260	Yellow	Violet	Red
CS1008-5R6□-S	5600	7.9	10 / 5 / 2	18	7.9	45	4.0	240	Green	Blue	Red
CS1008-6R8□-S	6800	7.9	10 / 5 / 2	18	7.9	40	4.9	200	Blue	Gray	Red
CS1008-8R2□-S	8200	7.9	10 / 5 / 2	18	7.9	25	6.0	170	Gray	Red	Red
CS1008-100□-S	10000	2.52	10 / 5 / 2	18	7.9	25	8.0	150	Brown	Black	Orange

- When ordering, please specify tolerance and packaging codes
- Tolerance : G = ±2% , J = ±5% , K = ±10%
- Packaging: Clear tape and reel {standard}
- L/Q: Agilent E4991A + AgilentHP16197A
- SRF: Agilent/HP8753D / Agilent/HP4291A
- RDC: CH502BC/ HP4338B
- Irms for a 15℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)
- Inductance would be correct Chilisin standard piece



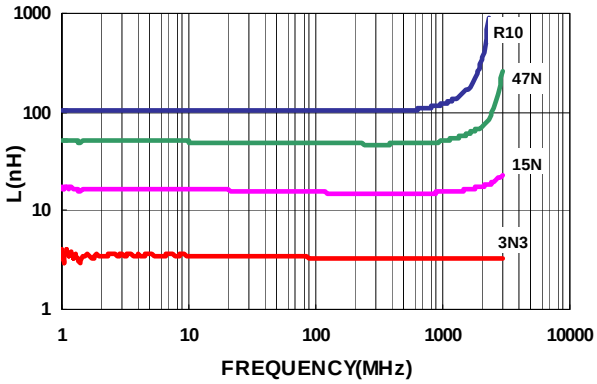
COLOR CODING

CHILISIN ELECTRONICS CORP.

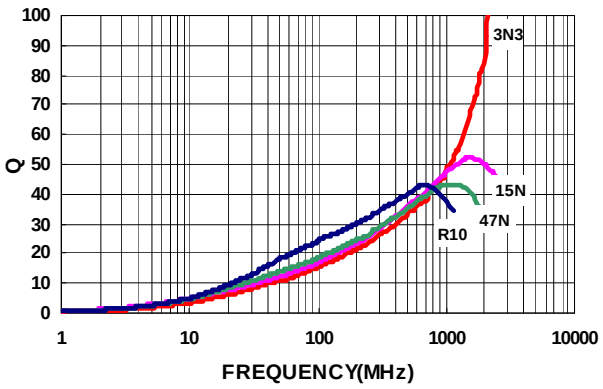
Test Instruments：Agilent E4991A Material/Impedance Analyzer

CS0402

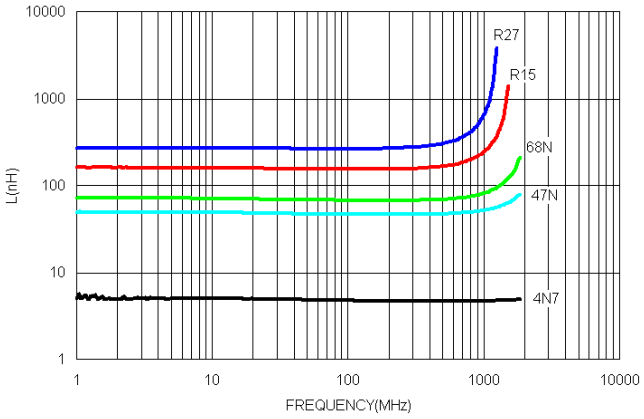
Typical L vs. Frequency

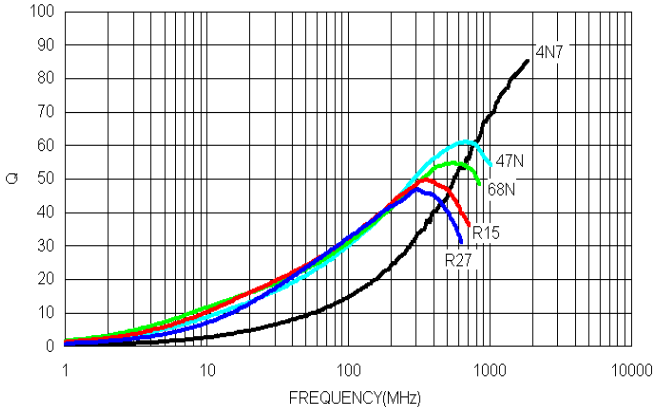


Typical Q vs. Frequency

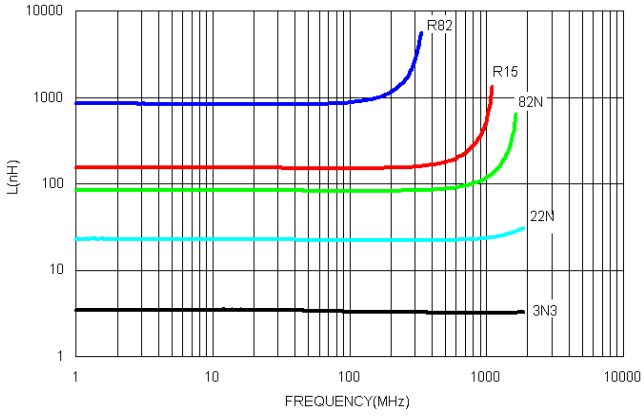


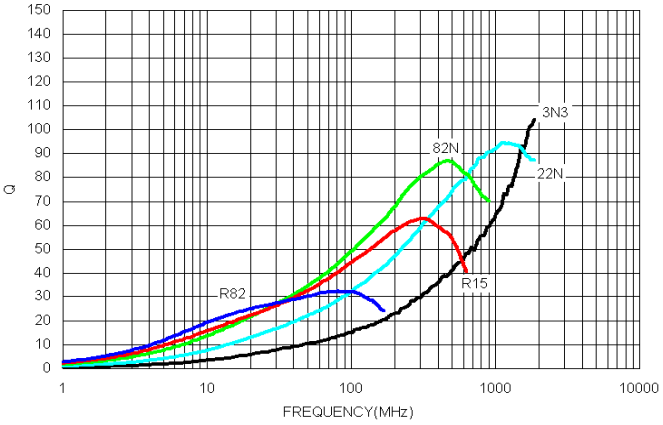
CS0603



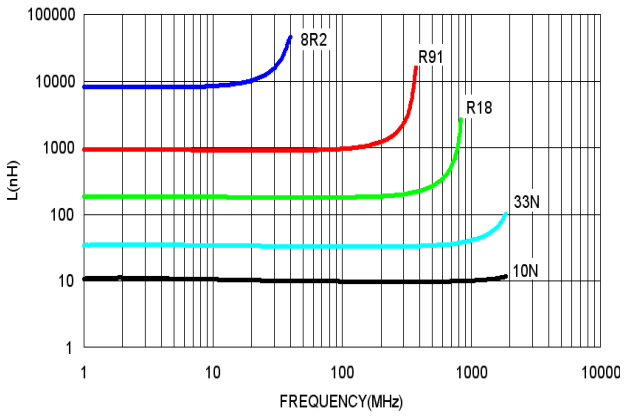


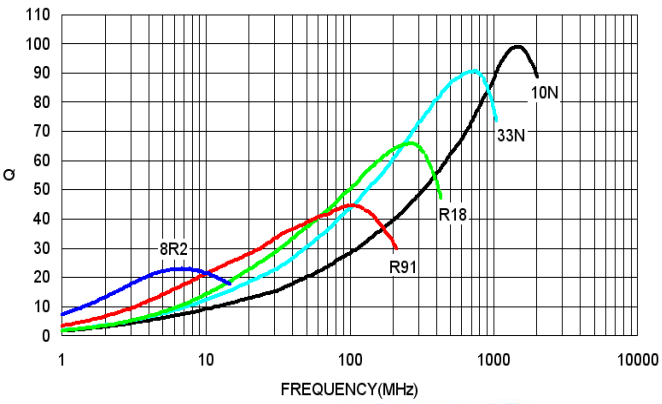
CS0805





CS1008



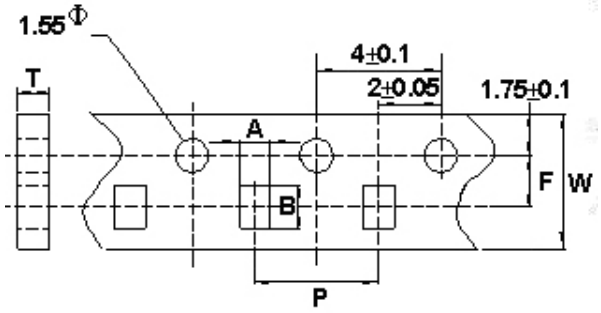


CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions

Figure 1



Tape Material

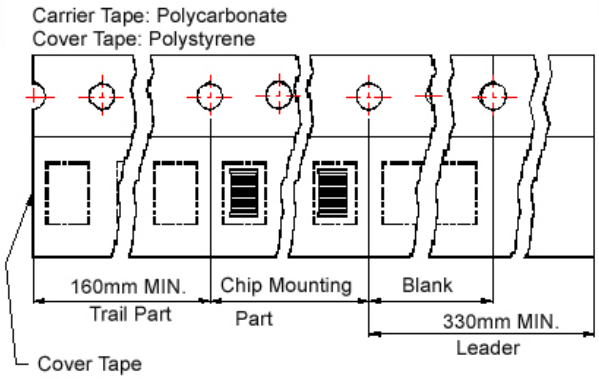
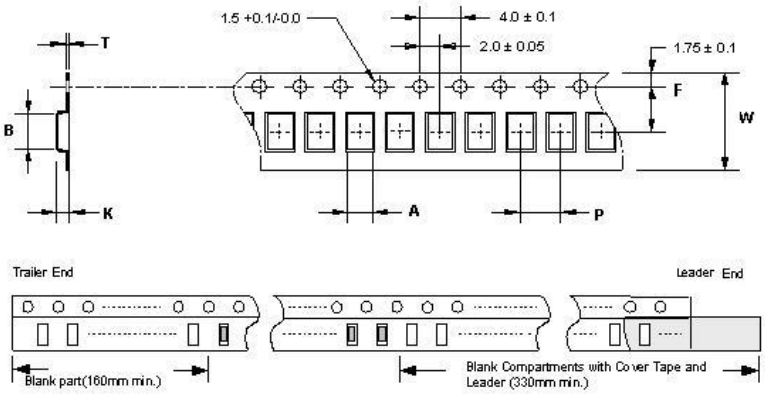
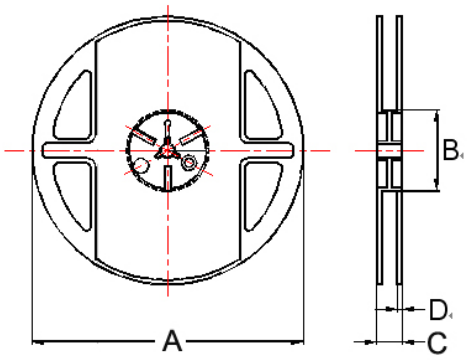


Figure 2



Reel Dimensions



Dimensions in mm

TYPE	Fig.	Tape Dimensions							Reel Dimensions				Quantity
		A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
CS0402	1	0.67	1.20	0.75	8	2	3.5	-	178	60	12	1.5	4000
CS0603	1	1.23	1.90	0.97	8	4	3.5	-	178	60	12	1.5	4000
CS0805	2	1.85	2.45	0.23	8	4	3.5	1.50	178	60	12	1.5	2000
CS1008	2	2.80	2.95	0.23	8	4	3.5	2.20	178	60	12	1.5	2000

LCN Series

Due to accurate wire winding technology, these chip inductors are designed for filtering, impedance matching, resonance and choke circuits for RF designer. Both standard series custom designs are available.

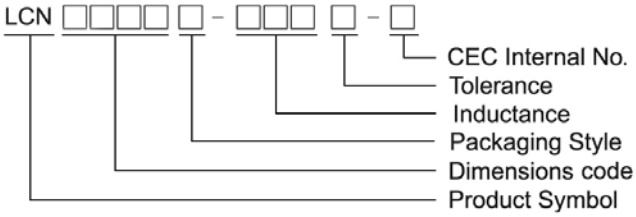
Features

- RoHS Compliant
- Ceramic body and Wire wound construction provide high SRFs
- Exceptional Q values even at high frequencies
- Highest possible SRFs as well as excellent Q values
- The non-magnetic coil form assures utmost thermal stability, predictability and batch consistency

Applications

- RF products for cellular phone
- GPS receiver
- Base Station
- Repeater
- Wireless LAN/ mouse/ keyboard/ earphone
- Remote control
- Security system and other RF modules

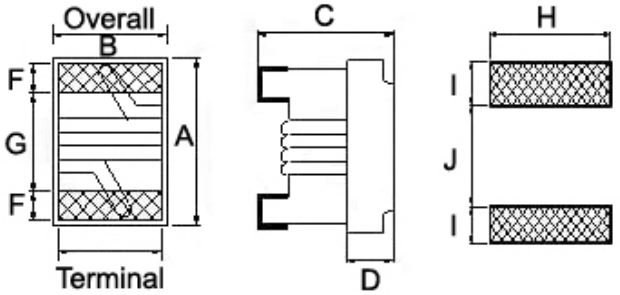
Product Identification



- Packaging: T：Tape and Reel

Shape and Dimensions/ Recommended Pattern

LCN0603/0805/1008/1206



Dimensions

		A Max	B Max	C Max	D	E	F	G	H	I	J
LCN 0603	inch	0.071	0.044	0.04	0.020	0.030	0.013	0034	0.040	0.025	0.025
	mm	1.80	1.12	1.02	0.51	0.76	0.33	0.86	1.02	0.64	0.64
LCN 0805	inch	0.093	0.068	0.06	0.028	0.050	0.020	0.040	0.070	0.040	0.030
	mm	2.35	1.73	1.52	0.71	1.27	0.51	1.02	1.78	1.02	0.76
LCN 1008	inch	0.115	0.110	0.083	0.046	0.080	0.020	0.060	0.100	0.040	0.050
	mm	2.92	2.79	2.1	1.16	2.03	0.51	1.52	2.54	1.02	1.27
LCN 1206	inch	0.146	0.110	0.087	0.035	0.091	0.020	0.086	0.106	0.039	0.079
	mm	3.70	2.80	2.20	0.90	2.30	0.51	2.18	2.70	1.00	2.00

Electrical Characteristics

Part Number	Inductance (nH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	SRF (MHz) Min	Rdc (Ω) Max	Irms (mA) Max	900 MHz		1.7 GHz		Color
								L Typ.	Q Typ.	L Typ.	Q Typ.	
LCN0603T-1N6□-S	1.6	250	10 / 5	24	12500	0.030	700	1.60	49	1.58	63	Red
LCN0603T-1N8□-S	1.8	250	10 / 5	16	12500	0.045	700	1.60	35	1.66	50	Black
LCN0603T-3N6□-S	3.6	250	10 / 5	22	5900	0.063	700	3.70	53	3.71	65	Red
LCN0603T-3N9□-S	3.9	250	10 / 5	22	6900	0.080	700	3.95	49	3.96	67	Brown
LCN0603T-4N3□-S	4.3	250	10 / 5	22	5900	0.063	700	4.32	50	4.33	70	Orange
LCN0603T-4N7□-S	4.7	250	10 / 5	20	5800	0.116	700	4.72	47	4.75	57	Violet
LCN0603T-5N1□-S	5.1	250	10 / 5	20	5700	0.140	700	4.93	47	4.95	56	Green
LCN0603T-6N3□-S	6.3	250	10 / 5	20	5700	0.140	700	5.50	47	6.1	60	White
LCN0603T-6N8□-S	6.8	250	10 / 5	27	5800	0.110	700	6.75	60	7.1	81	Red
LCN0603T-7N5□-S	7.5	250	10 / 5	28	4800	0.106	700	7.70	60	7.82	65	Brown
LCN0603T-8N2□-S	8.2	250	10 / 5	28	4700	0.109	700	8.30	60	8.50	60	White
LCN0603T-8N7□-S	8.7	250	10 / 5	28	4600	0.109	700	8.86	62	9.32	58	Yellow
LCN0603T-9N5□-S	9.5	250	10 / 5	28	5400	0.135	700	9.70	59	9.92	61	Blue
LCN0603T-10N□-S	10	250	10 / 5 / 2	31	4800	0.130	700	10.0	66	10.6	83	Orange
LCN0603T-11N□-S	11	250	10 / 5 / 2	33	4000	0.086	700	11.0	53	11.5	56	Gray
LCN0603T-12N□-S	12	250	10 / 5 / 2	35	4000	0.130	700	12.3	72	13.5	83	Yellow
LCN0603T-15N□-S	15	250	10 / 5 / 2	35	4000	0.170	700	15.4	64	16.8	89	Green
LCN0603T-16N□-S	16	250	10 / 5 / 2	34	3300	0.104	700	16.2	55	17.3	52	White
LCN0603T-18N□-S	18	250	10 / 5 / 2	35	3100	0.170	700	18.7	70	21.4	69	Blue
LCN0603T-22N□-S	22	250	10 / 5 / 2	38	3000	0.190	700	22.8	73	26.1	71	Violet
LCN0603T-24N□-S	24	250	10 / 5 / 2	37	2650	0.135	700	24.5	45	28.7	39	Black
LCN0603T-27N□-S	27	250	10 / 5 / 2	40	2800	0.220	600	29.2	74	34.6	65	Gray
LCN0603T-30N□-S	30	250	10 / 5 / 2	37	2250	0.144	600	31.4	47	39.9	28	Brown
LCN0603T-33N□-S	33	250	10 / 5 / 2	40	2300	0.220	600	36.0	67	49.5	42	White
LCN0603T-36N□-S	36	250	10 / 5 / 2	38	2080	0.250	600	39.4	47	52.7	24	Red
LCN0603T-39N□-S	39	250	10 / 5 / 2	40	2200	0.250	600	42.7	60	60.2	40	Black
LCN0603T-43N□-S	43	250	10 / 5 / 2	39	2000	0.280	600	47.0	44	64.9	21	Orange
LCN0603T-47N□-S	47	200	10 / 5 / 2	38	2000	0.280	600	52.2	62	77.2	35	Brown
LCN0603T-56N□-S	56	200	10 / 5 / 2	38	1900	0.310	600	62.5	56	97	26	Red
LCN0603T-68N□-S	68	200	10 / 5 / 2	37	1700	0.340	600	80.5	54	168	21	Orange
LCN0603T-72N□-S	72	150	10 / 5 / 2	34	1700	0.490	400	82.0	53	135	20	Yellow
LCN0603T-82N□-S	82	150	10 / 5 / 2	34	1700	0.540	400	96.2	54	177	21	Green
LCN0603T-R10□-S	100	150	10 / 5 / 2	34	1400	0.580	400	124	49			Blue
LCN0603T-R11□-S	110	150	10 / 5 / 2	32	1350	0.610	300	138	43			Violet
LCN0603T-R12□-S	120	150	10 / 5 / 2	32	1300	0.750	300	166	39			Gray
LCN0603T-R15□-S	150	150	10 / 5 / 2	28	990	0.920	280	250	25			White
LCN0603T-R18□-S	180	100	10 / 5 / 2	25	990	1.250	240	305	22			Black
LCN0603T-R22□-S	220	100	10 / 5 / 2	25	900	2.100	200	480	8			Brown
LCN0603T-R27□-S	270	100	10 / 5 / 2	24	900	2.800	170	980	4			Red

- When ordering, please specify tolerance and packaging codes.
- Tolerance : G = ±2% , J = ±5% , K = ±10%
- L /Q: Agilent E4991A+AgilentHP16197A
- SRF: Agilent/HP8753D / Agilent E4991A
- RDC: CH502BC/ HP4338B
- Irms for a 15℃ rise above 25℃ ambient.
- Operating temperature range from -40℃ to 125℃ (Including self - temperature rise)

Electrical Characteristics

Part Number	Inductance (nH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	Rdc (Ω) Max	Irms (mA) Max	Color
LCN0805T-2N8□-S	2.8	250	10 / 5	70	1500	7900	0.06	800	Gray
LCN0805T-3N0□-S	3.0	250	10 / 5	65	1500	7900	0.06	800	White
LCN0805T-3N3□-S	3.3	250	10 / 5	50	1500	7900	0.08	600	Black
LCN0805T-5N6□-S	5.6	250	10 / 5	65	1000	5500	0.08	600	Orange
LCN0805T-6N8□-S	6.8	250	10 / 5	50	1000	5500	0.11	600	Brown
LCN0805T-7N5□-S	7.5	250	10 / 5	50	1000	4500	0.14	600	Green
LCN0805T-8N2□-S	8.2	250	10 / 5	50	1000	4700	0.12	600	Red
LCN0805T-10N□-S	10	250	10 / 5 / 2	60	500	4200	0.10	600	Blue
LCN0805T-12N□-S	12	250	10 / 5 / 2	50	500	4000	0.15	600	Orange
LCN0805T-15N□-S	15	250	10 / 5 / 2	50	500	3400	0.17	600	Yellow
LCN0805T-18N□-S	18	250	10 / 5 / 2	50	500	3300	0.20	600	Green
LCN0805T-22N□-S	22	250	10 / 5 / 2	55	500	2600	0.22	500	Blue
LCN0805T-24N□-S	24	250	10 / 5 / 2	50	500	2000	0.22	500	Gray
LCN0805T-27N□-S	27	250	10 / 5 / 2	55	500	2500	0.25	500	Violet
LCN0805T-33N□-S	33	250	10 / 5 / 2	60	500	2050	0.27	500	Gray
LCN0805T-36N□-S	36	250	10 / 5 / 2	55	500	1700	0.27	500	Orange
LCN0805T-39N□-S	39	250	10 / 5 / 2	60	500	2000	0.29	500	White
LCN0805T-43N□-S	43	200	10 / 5 / 2	60	500	1650	0.34	500	Yellow
LCN0805T-47N□-S	47	200	10 / 5 / 2	60	500	1650	0.31	500	Black
LCN0805T-56N□-S	56	200	10 / 5 / 2	60	500	1550	0.34	500	Brown
LCN0805T-68N□-S	68	200	10 / 5 / 2	60	500	1450	0.38	500	Red
LCN0805T-82N□-S	82	150	10 / 5 / 2	65	500	1300	0.42	400	Orange
LCN0805T-91N□-S	91	150	10 / 5 / 2	65	500	1200	0.48	400	Black
LCN0805T-R10□-S	100	150	10 / 5 / 2	65	500	1200	0.46	400	Yellow
LCN0805T-R11□-S	110	150	10 / 5 / 2	50	250	1000	0.48	400	Brown
LCN0805T-R12□-S	120	150	10 / 5 / 2	50	250	1100	0.51	400	Green
LCN0805T-R15□-S	150	100	10 / 5 / 2	50	250	920	0.56	400	Blue
LCN0805T-R18□-S	180	100	10 / 5 / 2	50	250	870	0.64	400	Violet
LCN0805T-R20□-S	200	100	10 / 5 / 2	50	250	860	0.70	400	Red
LCN0805T-R22□-S	220	100	10 / 5 / 2	50	250	850	0.70	400	Gray
LCN0805T-R24□-S	240	100	10 / 5 / 2	44	250	690	1.00	350	Red
LCN0805T-R25□-S	250	100	10 / 5 / 2	45	250	660	1.00	350	Yellow
LCN0805T-R27□-S	270	100	10 / 5 / 2	48	250	650	1.00	350	White
LCN0805T-R33□-S	330	100	10 / 5 / 2	48	250	600	1.40	310	Black
LCN0805T-R39□-S	390	100	10 / 5 / 2	25	250	400	1.50	290	Brown
LCN0805T-R47□-S	470	50	10 / 5 / 2	33	100	400	1.76	250	Violet
LCN0805T-R56□-S	560	25	10 / 5 / 2	20	50	200	1.90	230	Orange
LCN0805T-R68□-S	680	25	10 / 5 / 2	18	50	130	2.20	190	Green
LCN0805T-R82□-S	820	25	10 / 5 / 2	15	50	100	2.35	180	Blue

- When ordering, please specify tolerance and packaging codes.
- Tolerance: G = ±2%, J = ±5%, K = ±10%
- Packaging: Clear tape and reel {standard}
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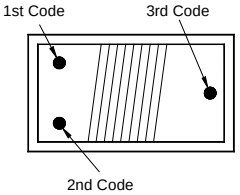
- SRF: Agilent/HP8753D / Agilent E4991A
- RDC: CH502BC/ HP4338B
- Irms for a 15℃ rise above 25℃ ambient.
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Electrical Characteristics

Part Number	Inductance (nH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	Rdc (Ω) Max	Irms (mA) Max	Color Coding 1ST	2ND	3RD
LCN1008T-10N□-S	10	50	10 / 5 / 2	50	500	4100	0.08	1000	Brown	Black	Black
LCN1008T-12N□-S	12	50	10 / 5 / 2	50	500	3300	0.09	1000	Brown	Red	Black
LCN1008T-15N□-S	15	50	10 / 5 / 2	50	500	2500	0.10	1000	Brown	Green	Black
LCN1008T-18N□-S	18	50	10 / 5 / 2	50	350	2500	0.11	1000	Brown	Gray	Black
LCN1008T-22N□-S	22	50	10 / 5 / 2	55	350	2400	0.12	1000	Red	Red	Black
LCN1008T-27N□-S	27	50	10 / 5 / 2	55	350	1600	0.13	1000	Red	Violet	Black
LCN1008T-33N□-S	33	50	10 / 5 / 2	60	350	1600	0.14	1000	Orange	Orange	Black
LCN1008T-39N□-S	39	50	10 / 5 / 2	60	350	1500	0.15	1000	Orange	White	Black
LCN1008T-47N□-S	47	50	10 / 5 / 2	65	350	1500	0.16	1000	Yellow	Violet	Black
LCN1008T-56N□-S	56	50	10 / 5 / 2	65	350	1300	0.18	1000	Green	Blue	Black
LCN1008T-68N□-S	68	50	10 / 5 / 2	65	350	1300	0.20	1000	Blue	Gray	Black
LCN1008T-82N□-S	82	50	10 / 5 / 2	60	350	1000	0.22	1000	Gray	Red	Black
LCN1008T-R10□-S	100	25	10 / 5 / 2	60	350	1000	0.56	650	Brown	Black	Brown
LCN1008T-R12□-S	120	25	10 / 5 / 2	60	350	950	0.63	650	Brown	Red	Brown
LCN1008T-R15□-S	150	25	10 / 5 / 2	45	100	850	0.70	580	Brown	Green	Brown
LCN1008T-R18□-S	180	25	10 / 5 / 2	45	100	750	0.77	620	Brown	Gray	Brown
LCN1008T-R22□-S	220	25	10 / 5 / 2	45	100	700	0.84	500	Red	Red	Brown
LCN1008T-R27□-S	270	25	10 / 5 / 2	45	100	600	0.91	500	Red	Violet	Brown
LCN1008T-R33□-S	330	25	10 / 5 / 2	45	100	570	1.05	450	Orange	Orange	Brown
LCN1008T-R39□-S	390	25	10 / 5 / 2	45	100	500	1.12	470	Orange	White	Brown
LCN1008T-R47□-S	470	25	10 / 5 / 2	45	100	450	1.19	470	Yellow	Violet	Brown
LCN1008T-R56□-S	560	25	10 / 5 / 2	45	100	415	1.33	400	Green	Blue	Brown
LCN1008T-R62□-S	620	25	10 / 5 / 2	45	100	375	1.40	300	Blue	Red	Brown
LCN1008T-R68□-S	680	25	10 / 5 / 2	45	100	375	1.47	400	Blue	Gray	Brown
LCN1008T-R75□-S	750	25	10 / 5 / 2	45	100	360	1.54	360	Violet	Green	Brown
LCN1008T-R82□-S	820	25	10 / 5 / 2	45	100	350	1.61	400	Gray	Red	Brown
LCN1008T-R91□-S	910	25	10 / 5 / 2	35	50	320	1.68	380	White	Brown	Brown
LCN1008T-1R0□-S	1000	25	10 / 5 / 2	35	50	220	1.75	370	Brown	Black	Red
LCN1008T-1R2□-S	1200	7.9	10 / 5 / 2	35	50	186	2.0	310	Brown	Red	Red
LCN1008T-1R5□-S	1500	7.9	10 / 5 / 2	28	50	200	2.3	330	Brown	Green	Red
LCN1008T-1R8□-S	1800	7.9	10 / 5 / 2	25	50	170	2.6	300	Brown	Gray	Red
LCN1008T-2R2□-S	2200	7.9	10 / 5 / 2	20	50	110	2.8	280	Red	Red	Red
LCN1008T-2R7□-S	2700	7.9	10 / 5 / 2	15	25	140	3.2	290	Red	Violet	Red
LCN1008T-3R3□-S	3300	7.9	10 / 5 / 2	15	25	100	3.4	290	Orange	Orange	Red
LCN1008T-3R9□-S	3900	7.9	10 / 5 / 2	15	25	100	3.6	260	Orange	White	Red
LCN1008T-4R7□-S	4700	7.9	10 / 5 / 2	13	25	90	4.0	260	Yellow	Violet	Red
LCN1008T-5R6□-S	5600	7.9	10 / 5 / 2	16	7.9	20	4.0	240	Green	Yellow	Red
LCN1008T-6R8□-S	6800	7.9	10 / 5 / 2	18	7.9	40	4.9	200	Yellow	Gray	Red
LCN1008T-8R2□-S	8200	7.9	10 / 5 / 2	18	7.9	25	6.0	170	Gray	Red	Red

- When ordering, please specify tolerance and packaging codes.
- Tolerance: G = ±2% , J = ±5% , K = ±10%
- Packaging: Clear tape and reel {standard}.
- L /Q Agilent E4991A + AgilentHP16197A
- SRF: Agilent/HP8753D / Agilent E4991A
- RDC: CH502BC/ HP4338B
- Irms for a 15℃ rise above 25℃ ambient.
- Operating temperature range from -40℃ to 125℃ (Including self - temperature rise)



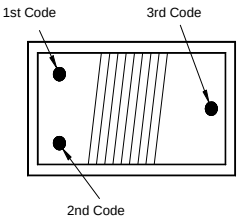
COLOR CODING

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (nH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	Rdc (Ω) Max	Irms (mA) Max	Color Coding 1ST	2ND	3RD
LCN1206T-3N3□-S	3.3	100	10 / 5	30	300	6200	0.05	1000	Black	Orange	Black
LCN1206T-6N8□-S	6.8	100	10 / 5	30	300	5500	0.07	1000	Black	Blue	Black
LCN1206T-10N□-S	10	100	10 / 5 / 2	40	300	4000	0.08	1000	Brown	Black	Black
LCN1206T-12N□-S	12	100	10 / 5 / 2	40	300	3200	0.08	1000	Brown	Red	Black
LCN1206T-15N□-S	15	100	10 / 5 / 2	40	300	3200	0.10	1000	Brown	Green	Black
LCN1206T-18N□-S	18	100	10 / 5 / 2	50	300	2800	0.10	1000	Brown	Gray	Black
LCN1206T-22N□-S	22	100	10 / 5 / 2	50	300	2200	0.10	1000	Red	Red	Black
LCN1206T-27N□-S	27	100	10 / 5 / 2	50	300	1800	0.11	1000	Red	Violet	Black
LCN1206T-33N□-S	33	100	10 / 5 / 2	55	300	1800	0.11	1000	Orange	Orange	Black
LCN1206T-39N□-S	39	100	10 / 5 / 2	55	300	1800	0.12	1000	Orange	White	Black
LCN1206T-47N□-S	47	100	10 / 5 / 2	55	300	1500	0.13	1000	Yellow	Violet	Black
LCN1206T-56N□-S	56	100	10 / 5 / 2	55	300	1450	0.14	1000	Green	Blue	Black
LCN1206T-68N□-S	68	100	10 / 5 / 2	55	300	1200	0.26	900	Blue	Gray	Black
LCN1206T-82N□-S	82	100	10 / 5 / 2	55	300	1200	0.21	900	Gray	Red	Black
LCN1206T-R10□-S	100	100	10 / 5 / 2	55	300	1100	0.26	850	Brown	Black	Brown
LCN1206T-R12□-S	120	100	10 / 5 / 2	60	300	1100	0.26	800	Brown	Red	Brown
LCN1206T-R15□-S	150	100	10 / 5 / 2	60	300	950	0.31	750	Brown	Green	Brown
LCN1206T-R18□-S	180	50	10 / 5 / 2	60	300	900	0.43	700	Brown	Gray	Brown
LCN1206T-R22□-S	220	50	10 / 5 / 2	60	300	760	0.50	670	Red	Red	Brown
LCN1206T-R27□-S	270	50	10 / 5 / 2	55	300	730	0.56	630	Red	Violet	Brown
LCN1206T-R33□-S	330	50	10 / 5 / 2	45	150	650	0.62	590	Orange	Orange	Brown
LCN1206T-R39□-S	390	50	10 / 5 / 2	45	150	600	0.75	530	Orange	White	Brown
LCN1206T-R47□-S	470	50	10 / 5 / 2	45	150	550	1.30	490	Yellow	Violet	Brown
LCN1206T-R56□-S	560	35	10 / 5 / 2	45	150	470	1.34	460	Green	Blue	Brown
LCN1206T-R62□-S	620	35	10 / 5 / 2	45	150	470	1.58	460	Blue	Red	Brown
LCN1206T-R68□-S	680	35	10 / 5 / 2	45	150	450	1.58	430	Blue	Gray	Brown
LCN1206T-R75□-S	750	35	10 / 5 / 2	45	150	440	2.25	320	Violet	Green	Brown
LCN1206T-R82□-S	820	35	10 / 5 / 2	45	150	420	1.82	400	Gray	Red	Brown
LCN1206T-R91□-S	910	35	10 / 5 / 2	45	150	410	2.95	310	White	Brown	Brown
LCN1206T-1R0□-S	1000	35	10 / 5 / 2	45	150	400	2.80	320	Brown	Black	Red
LCN1206T-1R2□-S	1200	35	10 / 5 / 2	45	150	380	3.20	300	Brown	Red	Red

- When ordering, please specify tolerance and packaging codes.
- Tolerance: G = ±2% , J = ±5% , K = ±10%
- L /Q: Agilent E4991A + AgilentHP16197A
- SRF: Agilent/HP8753D / Agilent E4991A
- RDC: CH502BC/ HP4338B
- Irms for a 15℃ rise above 25℃ ambient.
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)



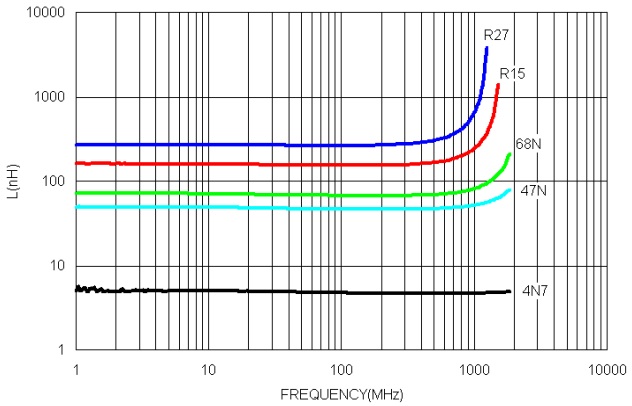
COLOR CODING

CHILISIN ELECTRONICS CORP.

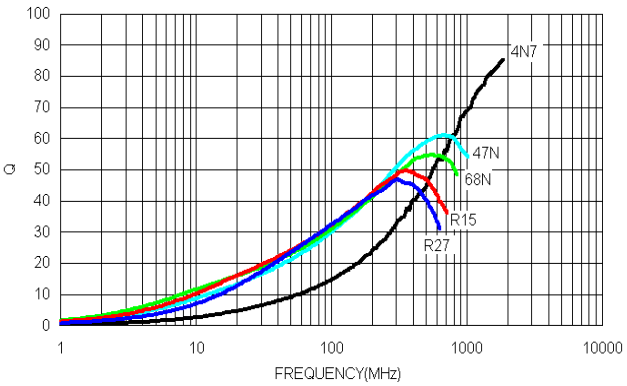
Test Instruments：Agilent E4991A Material/Impedance Analyzer

LCN0603

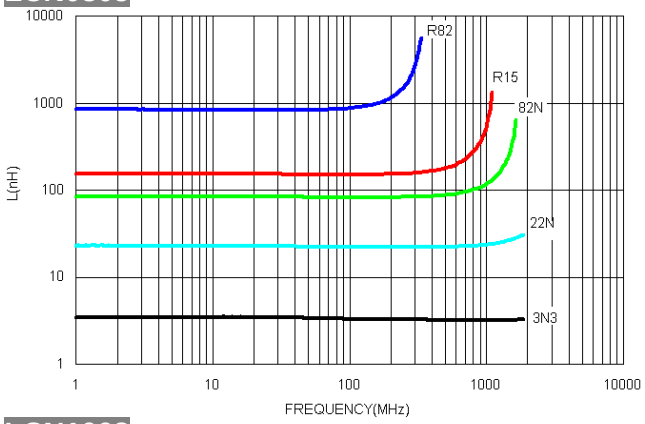
Typical L vs. Frequency

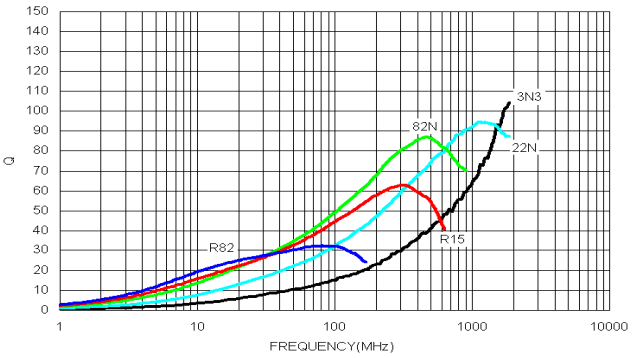


Typical Q vs. Frequency

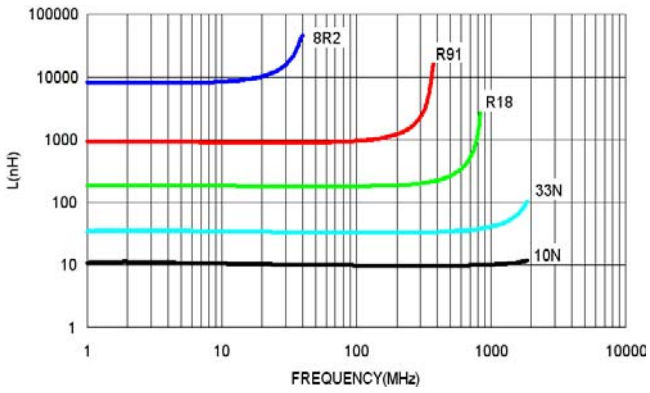


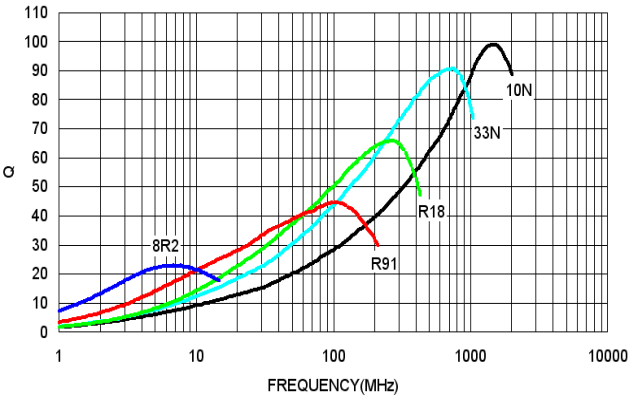
LCN0805



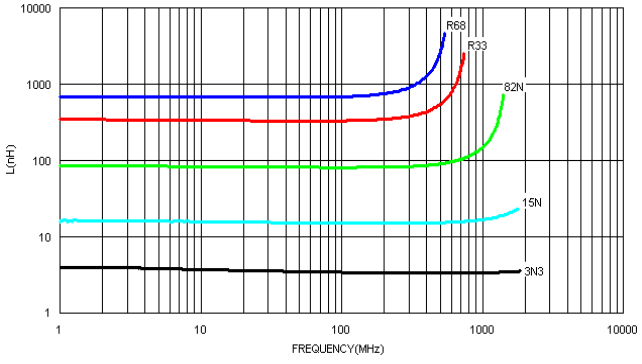


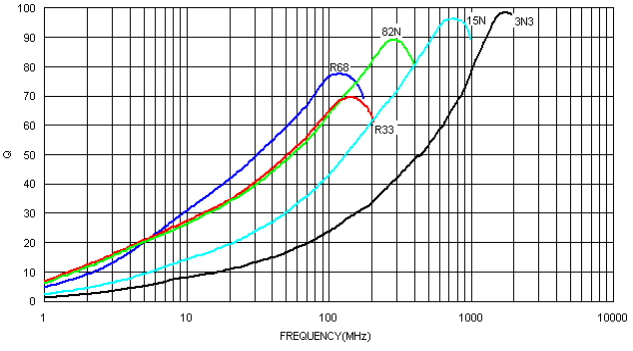
LCN1008





LCN1206

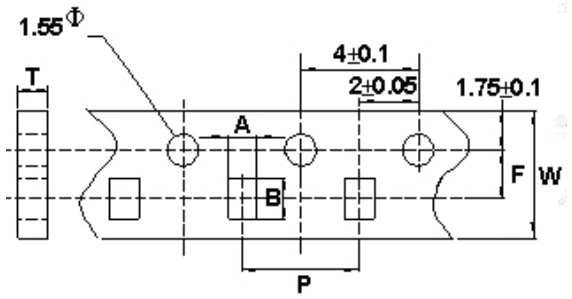




Packaging Specifications

Tape Dimensions

Figure 1



Tape Material

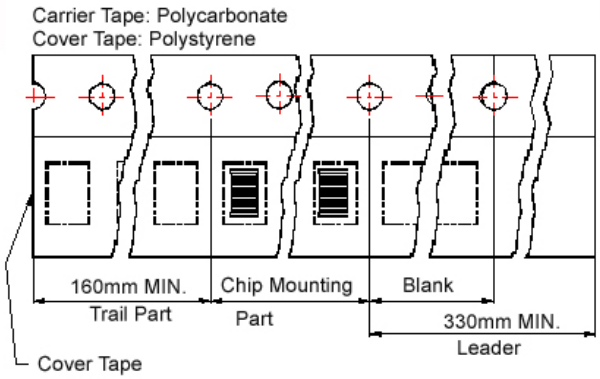
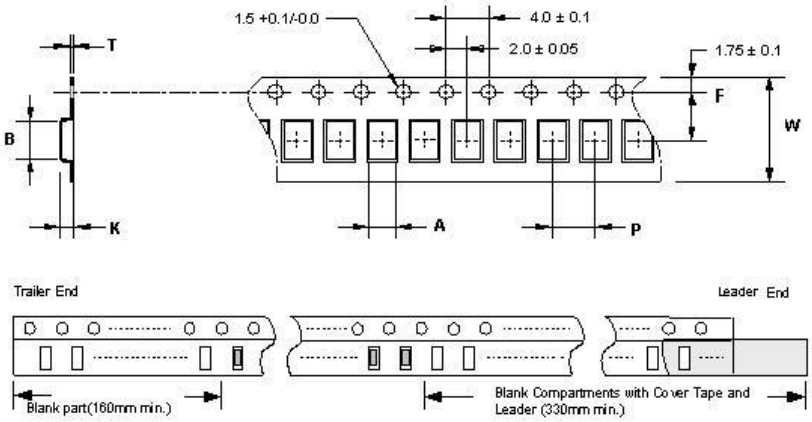
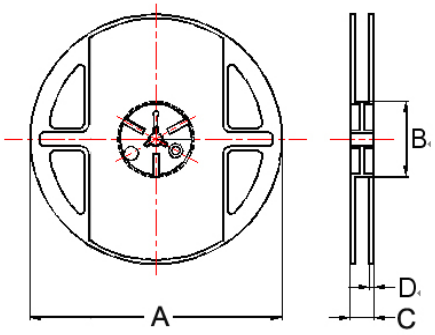


Figure 2



Reel Dimensions



Dimensions in mm

TYPE	Fig.	Tape Dimensions							Reel Dimensions				Quantity
		A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
LCN0603	1	1.16	1.85	0.95	8	4	3.5	-	178	60	12	1.5	4000
LCN0805	2	1.85	2.45	0.23	8	4	3.5	1.50	178	60	12	1.5	2500
LCN1008	2	2.80	2.95	0.23	8	4	3.5	2.20	178	60	12	1.5	2000
LCN1206	2	2.85	3.58	0.25	12	4	5.5	2.55	178	60	16	1.4	2000

CT Series

Due to accurate wire winding technology, these chip inductors are designed for filtering, impedance matching, resonance and choke circuits for RF designer. Both standard series custom designs are available.

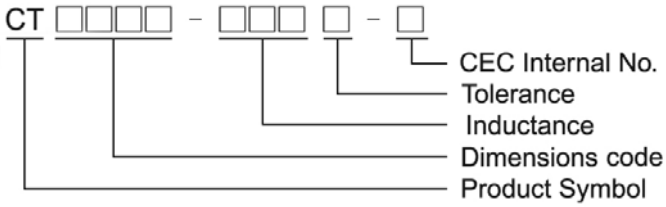
Features

- RoHS compliant.
- Ceramic body and wire wound construction provide highest SRFs
- Exceptional Q values even at high frequencies
- Highest possible SRFs as well as excellent Q values
- The non-magnetic coil form assures utmost thermal stability, predictability and batch consistency

Applications

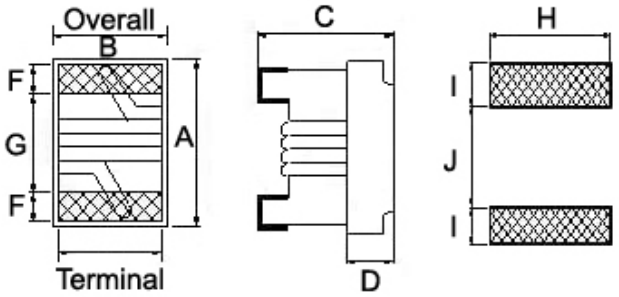
- RF products for cellular phone
- GPS receiver
- Base Station
- Repeater
- Wireless LAN/ mouse/ keyboard/ earphone
- Remote control
- Security system and other RF modules

Product Identification



Shape and Dimensions/ Recommended Pattern

CT0805



Dimensions

		A Max	B Max	C Max	D	E	F	G	H	I	J
CT0805	inch	0.093	0.068	0.039	0.020	0.050	0.020	0.040	0.070	0.040	0.030
	mm	2.35	1.73	1.10	0.51	1.27	0.51	1.02	1.78	1.02	0.76

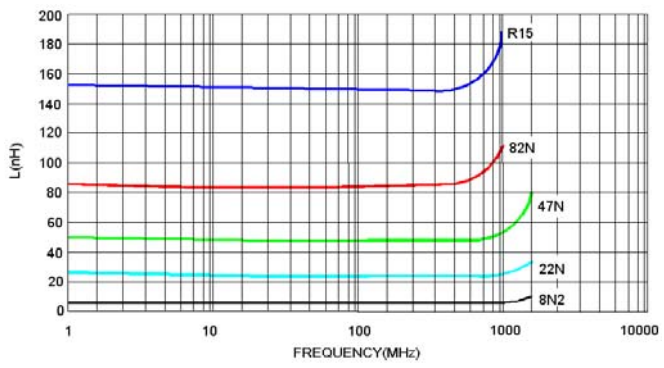
Electrical Characteristics

Part Number	Inductance (nH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	Rdc (Ω) Max	Irms (mA) Max	Color
CT0805-1N8□-S	1.8	250	10	55	1500	9400	0.03	800	Black
CT0805-3N9□-S	3.9	250	10	50	1000	6100	0.06	800	Brown
CT0805-4N7□-S	4.7	250	10 / 5	50	1000	5500	0.06	800	Red
CT0805-6N8□-S	6.8	250	10 / 5	50	1000	5500	0.08	800	Orange
CT0805-8N2□-S	8.2	250	10 / 5	50	1000	4800	0.08	800	Yellow
CT0805-10N□-S	10	250	10 / 5 / 2	55	750	3300	0.08	800	Green
CT0805-12N□-S	12	250	10 / 5 / 2	55	750	3800	0.10	800	Blue
CT0805-15N□-S	15	250	10 / 5 / 2	50	500	2950	0.10	800	Violet
CT0805-18N□-S	18	250	10 / 5 / 2	50	500	3100	0.13	800	Gray
CT0805-22N□-S	22	250	10 / 5 / 2	50	500	2900	0.15	800	White
CT0805-27N□-S	27	250	10 / 5 / 2	50	500	2450	0.23	600	Black
CT0805-33N□-S	33	250	10 / 5 / 2	55	500	2350	0.28	600	Brown
CT0805-39N□-S	39	250	10 / 5 / 2	55	500	2200	0.33	600	Red
CT0805-47N□-S	47	200	10 / 5 / 2	50	500	2000	0.39	600	Orange
CT0805-56N□-S	56	200	10 / 5 / 2	50	500	1850	0.39	500	Yellow
CT0805-68N□-S	68	200	10 / 5 / 2	50	500	1500	0.40	500	Green
CT0805-82N□-S	82	150	10 / 5 / 2	50	500	1500	0.44	500	Blue
CT0805-R10□-S	100	150	10 / 5 / 2	50	500	1200	0.64	400	Violet
CT0805-R12□-S	120	150	10 / 5 / 2	40	250	1150	0.68	300	Gray
CT0805-R15□-S	150	150	10 / 5 / 2	40	250	1050	0.80	300	White
CT0805-R18□-S	180	150	10 / 5 / 2	40	250	950	0.90	300	Black
CT0805-R22□-S	220	150	10 / 5 / 2	40	250	900	0.98	300	Brown
CT0805-R27□-S	270	150	10 / 5 / 2	40	250	850	1.30	300	Red
CT0805-R33□-S	330	100	10 / 5 / 2	40	250	800	1.45	300	Orange
CT0805-R39□-S	390	100	10 / 5 / 2	35	250	700	1.60	300	Yellow
CT0805-R47□-S	470	50	10 / 5 / 2	25	100	600	1.80	300	Green
CT0805-R56□-S	560	25	10 / 5 / 2	18	50	550	1.90	300	Blue
CT0805-R62□-S	620	25	10 / 5 / 2	18	50	450	2.00	300	Violet
CT0805-R68□-S	680	25	10 / 5 / 2	18	50	420	2.10	300	Gray
CT0805-R75□-S	750	25	10 / 5 / 2	18	50	400	2.20	300	White
CT0805-R82□-S	820	25	10 / 5 / 2	18	50	400	2.50	300	Black
CT0805-1R0□-S	1000	25	10 / 5	17	50	330	3.10	300	Brown

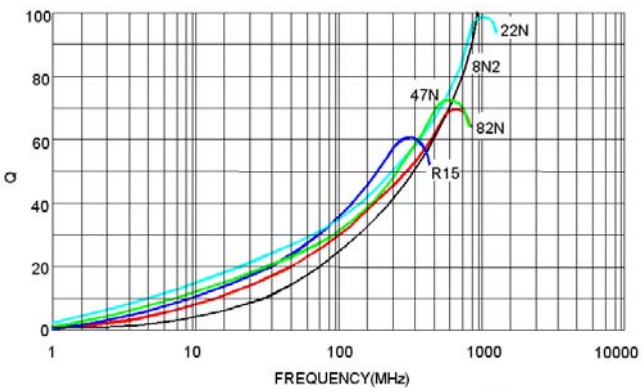
- When ordering, please specify tolerance and packaging codes.
- Tolerance: G = ±2%, J = ±5% , K = ±10%
- L/Q: Agilent E4991A+ Agilent HP16197A
- SRF: Agilent/HP8753D / Agilent E4991A
- RDC: CH502BC/ HP4338B
- Irms for a 15℃ rise above 25℃ ambient.
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



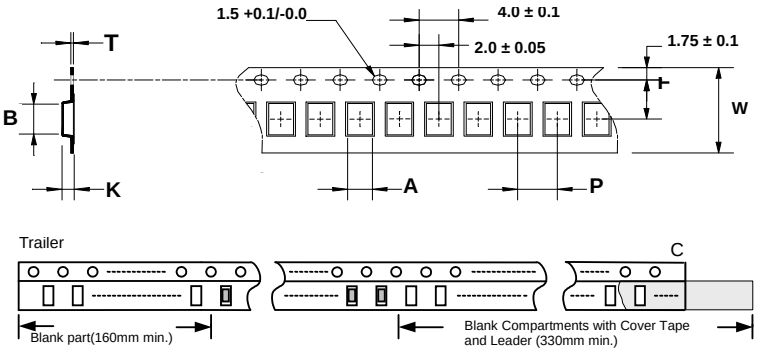
Typical Q vs. Frequency



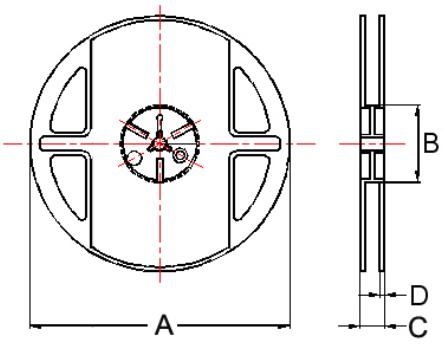
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
CT0805	1.85	2.45	0.23	8	4	3.5	1.10	178	60	12	1.5	2000

HQ Series

Due to accurate wire winding technology, these chip inductors are designed for filtering, impedance matching, resonance and choke circuits for RF designer. Both standard series custom designs are available.

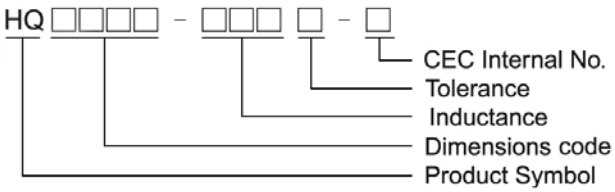
Features

- RoHS compliant.
- Ceramic body and wire wound construction provide highest SRFs
- Exceptional Q values even at high frequencies
- Highest possible SRFs as well as excellent Q values
- The non-magnetic coil form assures utmost thermal stability, predictability and batch consistency
- The highest Q factors and low RDC to fulfill the needs of mobile applications

Applications

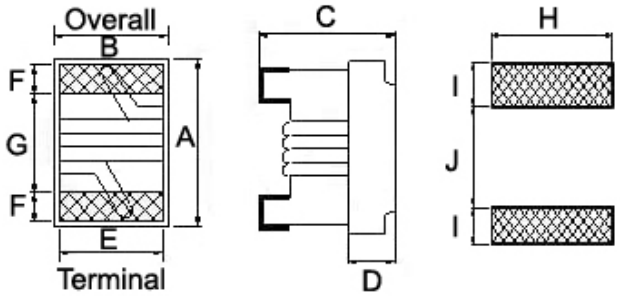
- RF products for cellular phone
- GPS receiver
- Base Station
- Repeater
- Wireless LAN/ mouse/ keyboard/ earphone
- Remote control
- Security system and other RF modules

Product Identification



Shape and Dimensions/ Recommended Pattern

HQ0805/1008



Dimensions

		A Max	B Max	C Max	D	E	F	G	H	I	J
HQ0805	inch	0.090	0.070	0.061	0.020	0.050	0.017	0.050	0.070	0.040	0.030
	mm	2.29	1.78	1.56	0.50	1.27	0.44	1.27	1.78	1.02	0.76
HQ1008	inch	0.117	0.110	0.083	0.028	0.080	0.020	0.060	0.100	0.040	0.050
	mm	2.96	2.79	2.10	0.70	2.03	0.51	1.52	2.54	1.02	1.27

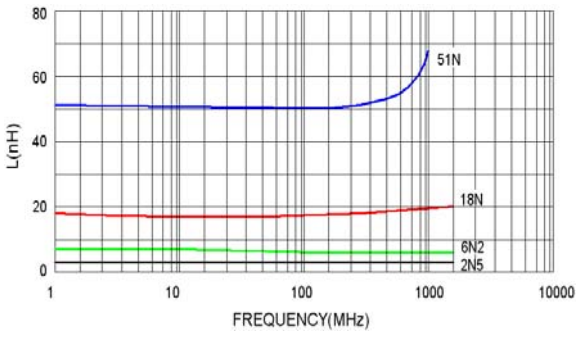
Electrical Characteristics

Part Number	Inductance (nH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	Rdc (Ω) Max	Irms (mA) Max	Color
HQ0805-2N5□-S	2.5	250	10 / 5	80	1500	6000	0.020	1600	Black
HQ0805-5N6□-S	5.6	250	10 / 5	98	1500	6000	0.035	1600	Brown
HQ0805-6N2□-S	6.2	250	10 / 5	88	1000	4750	0.035	1600	Red
HQ0805-12N□-S	12.0	250	10 / 5	80	1000	3000	0.045	1600	Orange
HQ0805-16N□-S	16.0	250	10 / 5 / 2	72	500	2950	0.060	1500	Yellow
HQ0805-18N□-S	18.0	250	10 / 5 / 2	75	500	2550	0.060	1400	Green
HQ0805-20N□-S	20.0	250	10 / 5 / 2	70	500	2050	0.055	1400	Blue
HQ0805-27N□-S	27.0	250	10 / 5 / 2	75	500	2000	0.070	1300	Violet
HQ0805-30N□-S	30.0	250	10 / 5 / 2	65	500	1950	0.095	1200	Gray
HQ0805-39N□-S	39.0	250	10 / 5 / 2	65	500	1600	0.095	1100	White
HQ0805-48N□-S	48.0	200	10 / 5 / 2	65	500	1400	0.110	1200	Black
HQ0805-51N□-S	51.0	200	10 / 5 / 2	65	500	1400	0.120	1000	Brown

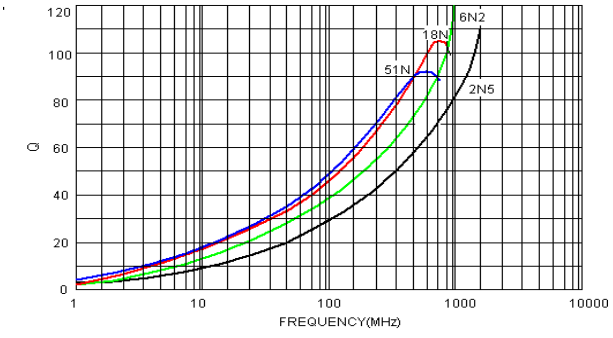
- When ordering, please specify tolerance and packaging codes.
- Tolerance: G = ±2%, J = ±5% , K = ±10%
- Packaging: Clear tape and reel {standard}
- L/Q: Agilent E4991A+ Agilent HP16197A
- SRF: Agilent HP8753D / Agilent E4991A
- RDC: CH502BC/ HP4338B
- Irms for a 15℃ rise above 25℃ ambient
- Operating temperature range from -40℃ to 125℃.(Including self - temperature rise)

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



Typical Q vs. Frequency

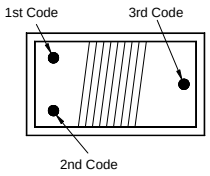


CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (nH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	Rdc (Ω) Max	Irms (mA) Max	Color Coding 1ST	2ND	3RD
HQ1008-4N1□-S	4.1	50	10 / 5	75	1500	6000	0.05	1600	Black	Yellow	Black
HQ1008-10N□-S	10	50	10 / 5	60	500	3600	0.06	1600	Brown	Black	Black
HQ1008-12N□-S	12	50	10 / 5 / 2	70	500	2800	0.06	1500	Brown	Red	Black
HQ1008-18N□-S	18	50	10 / 5 / 2	62	350	2700	0.07	1400	Brown	Gray	Black
HQ1008-22N□-S	22	50	10 / 5 / 2	62	350	2050	0.07	1400	Red	Red	Black
HQ1008-33N□-S	33	50	10 / 5 / 2	75	350	1700	0.09	1300	Orange	Orange	Black
HQ1008-39N□-S	39	50	10 / 5 / 2	75	350	1300	0.09	1300	Orange	White	Black
HQ1008-47N□-S	47	50	10 / 5 / 2	75	350	1450	0.12	1200	Yellow	Violet	Black
HQ1008-56N□-S	56	50	10 / 5 / 2	75	350	1230	0.12	1200	Green	Blue	Black
HQ1008-68N□-S	68	50	10 / 5 / 2	80	350	1150	0.13	1100	Blue	Gray	Black
HQ1008-82N□-S	82	50	10 / 5 / 2	80	350	1060	0.16	1100	Gray	Red	Black
HQ1008-R10□-S	100	50	10 / 5 / 2	62	350	1000	0.16	1000	Brown	Black	Brown
HQ1008-R12□-S	120	25	10 / 5 / 2	50	100	950	0.20	1000	Brown	Red	Brown
HQ1008-R15□-S	150	25	10 / 5 / 2	48	100	820	0.23	1000	Brown	Green	Brown
HQ1008-R22□-S	220	25	10 / 5 / 2	48	100	730	0.45	1000	Red	Red	Brown
HQ1008-R27□-S	270	25	10 / 5 / 2	48	100	650	0.50	900	Red	Violet	Brown
HQ1008-R33□-S	330	25	10 / 5 / 2	48	100	570	0.65	900	Orange	Orange	Brown
HQ1008-R39□-S	390	25	10 / 5 / 2	48	100	530	0.70	900	Orange	White	Brown

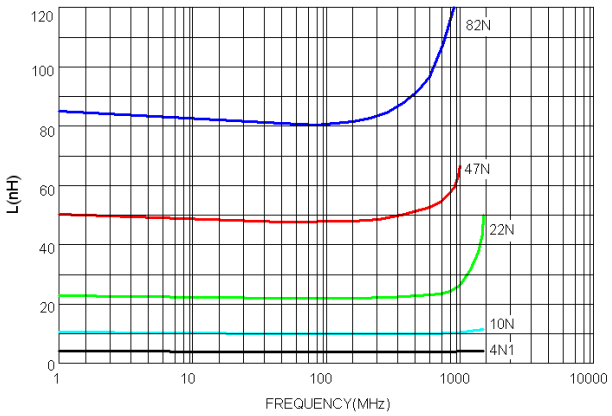
- When ordering, please specify tolerance and packaging codes.
- Tolerance: G = ±2%, J = ±5%, K = ±10%
- Packaging: Clear tape and reel {standard}.
- L /Q: Agilent E4991A + Agilent HP16197A
- SRF: Agilent HP8753D / Agilent E4991A
- RDC: CH502BC/ HP4338B
- Irms for a 15℃ rise above 25℃ ambient.
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)



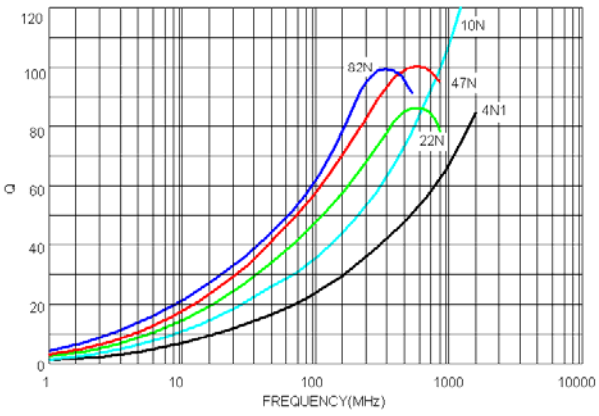
COLOR CODING

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



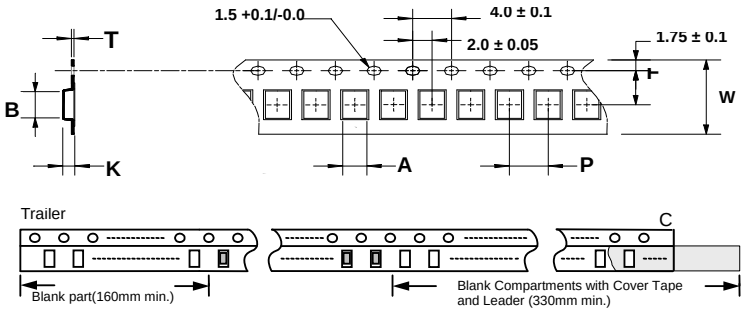
Typical Q vs. Frequency



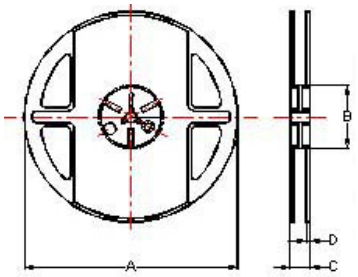
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
HQ0805	1.85	2.45	0.23	8	4	3.5	1.45	178	60	12	1.5	2000
HQ1008	2.80	2.95	0.23	8	4	3.5	2.20	178	60	12	1.5	2000

HC Series

Due to accurate wire winding technology, these chip inductors are designed for filtering, impedance matching, resonance and choke circuits for RF designer. Both standard series custom designs are available.

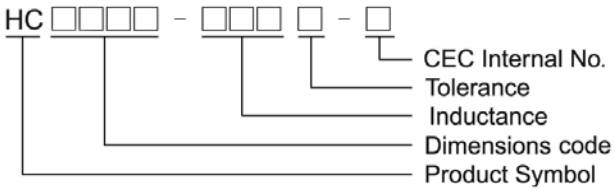
Features

- RoHS compliant
- Ceramic body and wire wound construction provide highest SRFs
- Exceptional Q values even at high frequencies
- Highest possible SRFs as well as excellent Q values
- The non-magnetic coil form assures utmost thermal stability, predictability and batch consistency
- The high current rating and low loss to fit the RF applications

Applications

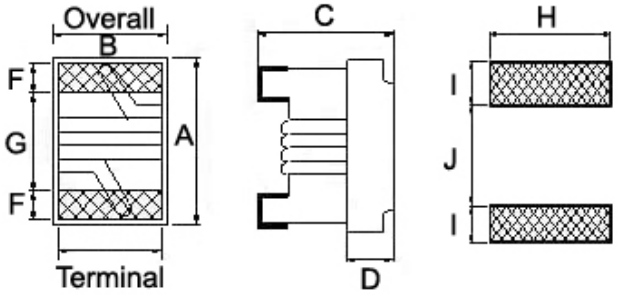
- RF products for cellular phone
- GPS receiver
- Base Station
- Repeater
- Wireless LAN/ mouse/ keyboard/ earphone
- Remote control
- Security system and other RF modules

Product Identification



Shape and Dimensions/ Recommended Pattern

HC0603



Dimensions

		A Max	B Max	C Max	D	E	F	G	H	I	J
HC0603	inch	0.071	0.049	0.04	0.015	0.030	0.013	0.034	0.040	0.025	0.025
	mm	1.80	1.25	1.02	0.38	0.76	0.33	0.86	1.02	0.64	0.64

CHILISIN ELECTRONICS CORP.

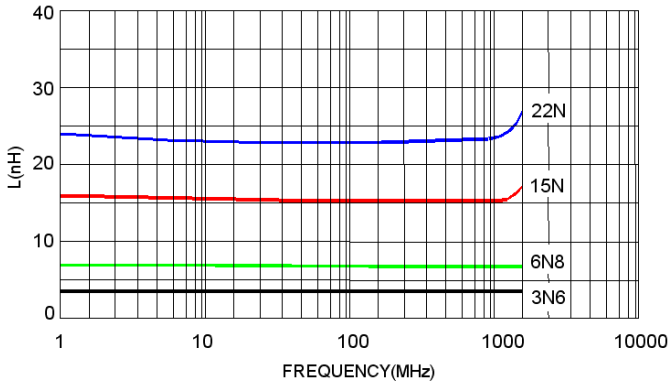
Electrical Characteristics

Part Number	Inductance (nH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	Rdc (Ω) Max	Irms (mA) Max	Color
HC0603-1N6□-S	1.6	250	10 / 5	24	250	12500	0.030	2400	Black
HC0603-3N6□-S	3.6	250	10 / 5	24	250	5900	0.048	2300	Brown
HC0603-3N9□-S	3.9	250	10 / 5	25	250	5900	0.054	2200	Red
HC0603-6N8□-S	6.8	250	10 / 5	35	250	5800	0.054	2100	Orange
HC0603-7N5□-S	7.5	250	10 / 5	35	250	3700	0.059	2100	Yellow
HC0603-8N2□-S	8.2	250	10 / 5	38	250	3700	0.071	2000	Brown
HC0603-10N□-S	10.0	250	10 / 5 / 2	38	250	3700	0.071	2000	Green
HC0603-12N□-S	12.0	250	10 / 5 / 2	38	250	3000	0.075	2000	Blue
HC0603-15N□-S	15.0	250	10 / 5 / 2	38	250	2800	0.080	1900	Violet
HC0603-18N□-S	18.0	250	10 / 5 / 2	40	250	2800	0.099	1900	Gray
HC0603-22N□-S	22.0	250	10 / 5 / 2	42	250	2400	0.099	1800	White
HC0603-24N□-S	24.0	250	10 / 5 / 2	42	250	2400	0.105	1800	Black

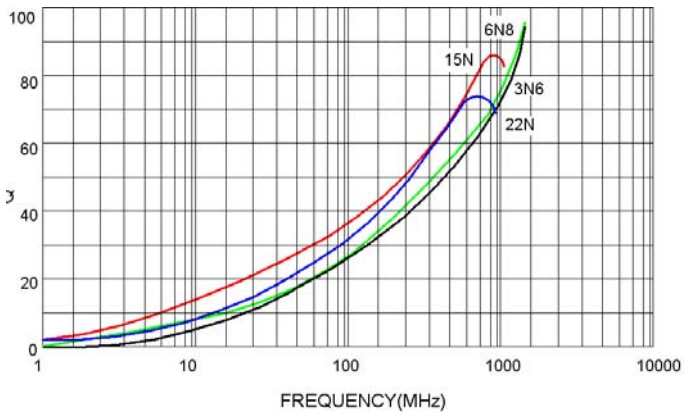
- When ordering, please specify tolerance and packaging codes.
- Tolerance：G = ±2% , J = ±5% , K = ±10%
- L /Q: Agilent E4991A + Agilent HP16197A
- SRF: Agilent HP8753D
- RDC: CH502BC/ HP4338B
- Irms for a 20℃ rise above 25℃ ambient.
- Operating temperature range from -40℃ to 125℃. (Including self - temperature rise)

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



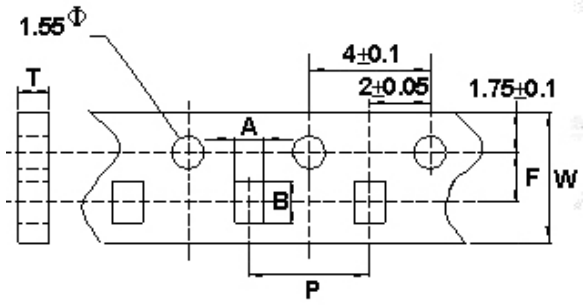
Typical Q vs. Frequency



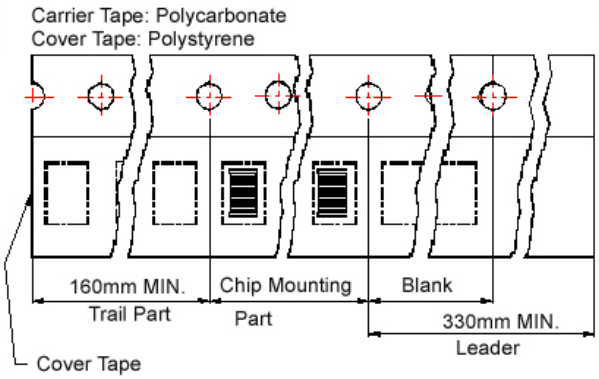
CHILISIN ELECTRONICS CORP.

Packaging Specifications

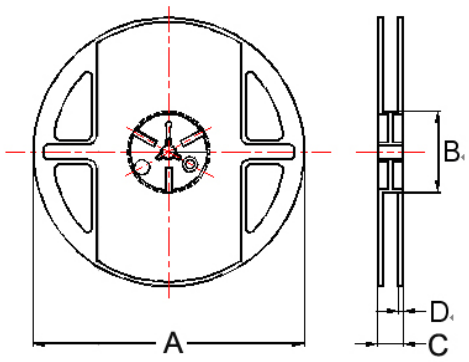
Tape Dimensions



Tape Material



Reel Dimensions

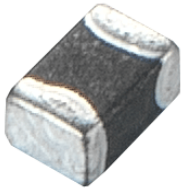


Dimensions in mm

TYPE	Tape Dimensions						Reel Dimensions				Quantity
	A	B	T	W	P	F	A	B	C	D	PCS / REEL
HC0603	1.16	1.85	0.95	8	4	3.5	178	60	12	1.5	4000

CHILISIN ELECTRONICS CORP.

CL Series



The SMD multi-layered ferrite chip inductors provide a cost-effective solution for densely packed PC board designs. CL series comes in 5 sizes and is suitable for low frequency applications.

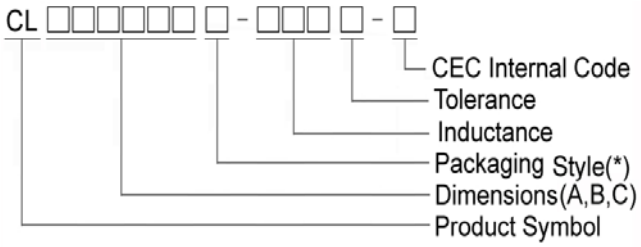
Features

- RoHS compliant
- High mounting density of compact circuit due to crosstalk elimination that results from a closed magnetic flux in a ferrite material
- Suitable for flow and re-flow soldering
- Available in 5 sizes

Applications

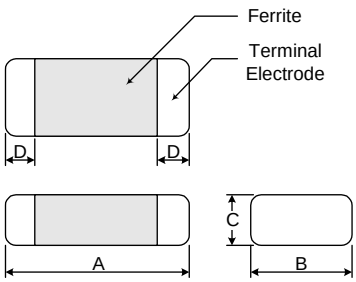
- Personal computers, HDDs, other various electronic devices
- Any portable device where compact size and high mounting densities are required

Product Identification

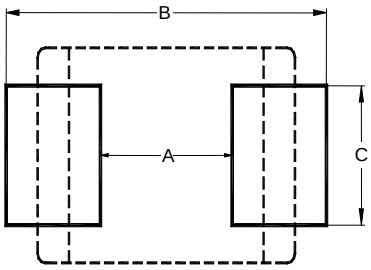


- Packaging :T：Tape and Reel；B：Bulk

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
CL100505	1.0±0.10	0.50±0.10	0.50±0.10	0.25±0.10
CL160808	1.6±0.20	0.80±0.20	0.80±0.20	0.3±0.20
CL201209	2.0±0.20	1.25±0.20	0.90±0.20	0.5±0.30
CL201212	2.0±0.20	1.25±0.20	1.25±0.20	0.5±0.30
CL321611	3.2±0.20	1.60±0.20	1.10±0.20	0.5±0.30

Dimensions in mm

TYPE	A	B	C
CL100505	0.4	1.2 ~ 1.4	0.5
CL160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
CL201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
CL201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
CL321611	2.0	4.2 ~ 5.2	1.2

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	DC Resistance (Ω) Max	IDC (mA) Max
CL100505T-10NM-N	0.010	20	8	50	500	0.45	50
CL100505T-12NM-N	0.012	20	8	50	500	0.45	50
CL100505T-47NM-N	0.047	20	10	50	500	0.45	50
CL100505T-68NM-N	0.068	20	10	50	480	0.45	50
CL100505T-82NM-N	0.082	20	10	50	480	0.45	50
CL100505T-R10☐-N	0.10	20 / 10	15	25	450	0.60	50
CL100505T-R12☐-N	0.12	20 / 10	15	25	400	0.70	25
CL100505T-R15☐-N	0.15	20 / 10	15	25	350	0.80	25
CL100505T-R18☐-N	0.18	20 / 10	15	25	320	0.90	25
CL100505T-R22☐-N	0.22	20 / 10	15	25	290	1.10	25
CL100505T-R27☐-N	0.27	20 / 10	15	25	260	1.30	25
CL100505T-R33☐-N	0.33	20 / 10	15	25	230	1.50	25
CL100505T-R39☐-N	0.39	20 / 10	25	10	210	0.41	10
CL100505T-R47☐-N	0.47	20 / 10	20	10	190	0.65	10
CL100505T-R56☐-N	0.56	20 / 10	20	10	170	0.70	10
CL100505T-R68☐-N	0.68	20 / 10	20	10	150	0.80	10
CL100505T-R82☐-N	0.82.	20 / 10	20	10	130	0.90	10
CL100505T-1R0☐-N	1.00	20 / 10	20	10	120	1.00	15
CL100505T-1R2☐-N	1.20	20 / 10	20	10	110	1.10	15
CL100505T-1R5☐-N	1.50	20 / 10	20	10	100	1.20	10
CL100505T-1R8☐-N	1.80	20 / 10	20	10	90	1.30	10
CL100505T-2R2☐-N	2.20	20 / 10	20	10	80	1.40	10

- When ordering, please specify tolerance and packaging codes.
- Tolerance: K = ± 10% M = ± 20%

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	DC Resistance (Ω) Max	IDC (mA) Max
CL160808T-10N□-N	0.010	20 / 15	15	50	300	0.2	50
CL160808T-33N□-N	0.033	20 / 15	15	50	270	0.2	50
CL160808T-47N□-N	0.047	20 / 15	15	50	260	0.3	50
CL160808T-56N□-N	0.056	20 / 15	15	50	255	0.3	50
CL160808T-68N□-N	0.068	20 / 15	15	50	250	0.3	50
CL160808T-82N□-N	0.082	20 / 15	15	50	245	0.3	50
CL160808T-R10□-N	0.10	20 / 15 / 10	25	25	240	0.5	50
CL160808T-R12□-N	0.12	20 / 15 / 10	25	25	205	0.5	50
CL160808T-R15□-N	0.15	20 / 15 / 10	25	25	180	0.6	50
CL160808T-R18□-N	0.18	20 / 15 / 10	25	25	165	0.6	50
CL160808T-R22□-N	0.22	20 / 15 / 10	25	25	150	0.8	50
CL160808T-R27□-N	0.27	20 / 15 / 10	25	25	136	0.8	50
CL160808T-R33□-N	0.33	20 / 15 / 10	25	25	125	0.85	35
CL160808T-R39□-N	0.39	20 / 15 / 10	25	25	110	1.00	35
CL160808T-R47□-N	0.47	20 / 15 / 10	25	25	105	1.35	35
CL160808T-R56□-N	0.56	20 / 15 / 10	25	25	95	1.50	35
CL160808T-R68□-N	0.68	20 / 15 / 10	25	25	85	1.70	35
CL160808T-R82□-N	0.82	20 / 15 / 10	25	25	75	2.10	35
CL160808T-1R0□-N	1.0	20 / 15 / 10	35	10	65	0.60	25
CL160808T-1R2□-N	1.2	20 / 15 / 10	35	10	60	0.80	25
CL160808T-1R5□-N	1.5	20 / 15 / 10	35	10	55	0.80	25
CL160808T-1R8□-N	1.8	20 / 15 / 10	35	10	50	0.95	25
CL160808T-2R2□-N	2.2	20 / 15 / 10	35	10	45	1.00	15
CL160808T-2R7□-N	2.7	20 / 15 / 10	35	10	40	1.15	15
CL160808T-3R3□-N	3.3	20 / 15 / 10	35	10	38	1.30	15
CL160808T-3R9□-N	3.9	20 / 15 / 10	35	10	36	1.50	15
CL160808T-4R7□-N	4.7	20 / 15 / 10	35	10	33	1.60	15
CL160808T-5R6□-N	5.6	20 / 15 / 10	35	4	22	1.10	5
CL160808T-6R8□-N	6.8	20 / 15 / 10	35	4	20	1.30	5
CL160808T-8R2□-N	8.2	20 / 15 / 10	30	4	18	1.50	5
CL160808T-100□-N	10	20 / 15 / 10	30	2	17	1.70	5
CL160808T-120□-N	12	20 / 15 / 10	30	2	15	1.80	3
CL160808T-150□-N	15	20 / 15 / 10	20	1	14	1.50	1
CL160808T-180□-N	18	20 / 15 / 10	20	1	13	1.60	1
CL160808T-220□-N	22	20 / 15 / 10	20	1	11	1.70	1

- When ordering, please specify tolerance and packaging codes.
- Tolerance : K = ± 10% L = ± 15% M = ± 20%

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF MHz) Min	DC Resistance (Ω) Max	IDC (mA) Max
CL201209T-22N☐-N	0.022	20 / 15	20	50	320	0.20	300
CL201209T-33N☐-N	0.033	20 / 15	20	50	320	0.20	300
CL201209T-47N☐-N	0.047	20 / 15	20	50	320	0.20	300
CL201209T-68N☐-N	0.068	20 / 15	20	50	280	0.20	300
CL201209T-82N☐-N	0.082	20 / 15	20	50	255	0.20	300
CL201209T-R10☐-N	0.10	20 / 15 / 0	25	25	235	0.30	250
CL201209T-R12☐-N	0.12	20 / 15 / 10	25	25	220	0.30	250
CL201209T-R15☐-N	0.15	20 / 15 / 10	25	25	200	0.40	250
CL201209T-R18☐-N	0.18	20 / 15 / 10	25	25	185	0.40	250
CL201209T-R22☐-N	0.22	20 / 15 / 10	25	25	170	0.50	250
CL201209T-R27☐-N	0.27	20 / 15 / 10	25	25	150	0.50	250
CL201209T-R33☐-N	0.33	20 / 15 / 10	25	25	145	0.55	250
CL201209T-R39☐-N	0.39	20 / 15 / 10	25	25	135	0.65	250
CL201209T-R47☐-N	0.47	20 / 15 / 10	25	25	125	0.65	250
CL201209T-R56☐-N	0.56	20 / 15 / 10	25	25	115	0.75	150
CL201209T-R68☐-N	0.68	20 / 15 / 10	25	25	105	0.80	150
CL201209T-R82☐-N	0.82	20 / 15 / 10	25	25	100	1.00	150
CL201209T-1R0☐-N	1.0	20 / 15 / 10	45	10	75	0.40	50
CL201209T-1R2☐-N	1.2	20 / 15 / 10	45	10	65	0.50	50
CL201209T-1R5☐-N	1.5	20 / 15 / 10	45	10	60	0.50	50
CL201209T-1R8☐-N	1.8	20 / 15 / 10	45	10	55	0.60	50
CL201209T-2R2☐-N	2.2	20 / 15 / 10	45	10	50	0.65	30

- When ordering, please specify tolerance and packaging codes
- Tolerance : K = ± 10% L = ± 15% M = ± 20%

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	DC Resistance (Ω) Max	IDC (mA) Max
CL201212T-2R7☐-N	2.7	20 / 15 / 10	45	10	45	0.75	30
CL201212T-3R3☐-N	3.3	20 / 15 / 10	45	10	41	0.80	30
CL201212T-3R9☐-N	3.9	20 / 15 / 10	45	10	38	0.90	30
CL201212T-4R7☐-N	4.7	20 / 15 / 10	45	10	35	1.00	30
CL201212T-5R6☐-N	5.6	20 / 15 / 10	45	4	32	0.90	15
CL201212T-6R8☐-N	6.8	20 / 15 / 10	45	4	29	1.00	15
CL201212T-8R2☐-N	8.2	20 / 15 / 10	45	4	26	1.10	15
CL201212T-100☐-N	10	20 / 15 / 10	45	2	24	1.10	15
CL201212T-120☐-N	12	20 / 15 / 10	45	2	22	1.20	15
CL201212T-150☐-N	15	20 / 15 / 10	30	1	19	0.80	5
CL201212T-180☐-N	18	20 / 15 / 10	30	1	18	0.90	5
CL201212T-220☐-N	22	20 / 15 / 10	30	1	16	1.1	5

- When ordering, please specify tolerance and packaging codes
- Tolerance : K = ± 10% L = ± 15% M = ± 20%

Electrical Characteristics

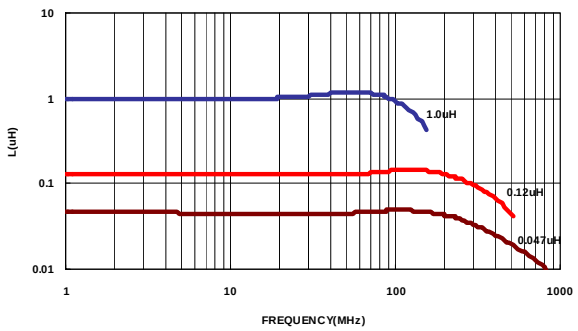
Part Number	Inductance (μH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	DC Resistance (Ω) Max	IDC (mA) Max
CL321611T-47N☐-N	0.047	20 / 15	20	50	320	0.15	300
CL321611T-68N☐-N	0.068	20 / 15	20	50	280	0.25	300
CL321611T-82N☐-N	0.082	20 / 15	20	50	250	0.25	300
CL321611T-R10☐-N	0.10	20 / 15 / 10	25	25	235	0.25	250
CL321611T-R12☐-N	0.12	20 / 15 / 10	25	25	220	0.30	250
CL321611T-R15☐-N	0.15	20 / 15 / 10	25	25	200	0.30	250
CL321611T-R18☐-N	0.18	20 / 15 / 10	25	25	185	0.40	250
CL321611T-R22☐-N	0.22	20 / 15 / 10	25	25	170	0.40	250
CL321611T-R27☐-N	0.27	20 / 15 / 10	25	25	150	0.50	250
CL321611T-R33☐-N	0.33	20 / 15 / 10	25	25	145	0.60	250
CL321611T-R39☐-N	0.39	20 / 15 / 10	25	25	135	0.50	200
CL321611T-R47☐-N	0.47	20 / 15 / 10	25	25	125	0.60	200
CL321611T-R56☐-N	0.56	20 / 15 / 10	25	25	115	0.70	150
CL321611T-R68☐-N	0.68	20 / 15 / 10	25	25	105	0.80	150
CL321611T-R82☐-N	0.82	20 / 15 / 10	25	25	100	0.90	150
CL321611T-1R0☐-N	1.0	20 / 15 / 10	45	10	75	0.40	100
CL321611T-1R2☐-N	1.2	20 / 15 / 10	45	10	65	0.50	100
CL321611T-1R5☐-N	1.5	20 / 15 / 10	45	10	60	0.50	80
CL321611T-1R8☐-N	1.8	20 / 15 / 10	45	10	55	0.50	70
CL321611T-2R2☐-N	2.2	20 / 15 / 10	45	10	50	0.60	60
CL321611T-2R7☐-N	2.7	20 / 15 / 10	45	10	45	0.60	60
CL321611T-3R3☐-N	3.3	20 / 15 / 10	45	10	41	0.70	60
CL321611T-3R9☐-N	3.9	20 / 15 / 10	45	10	38	0.80	50
CL321611T-4R7☐-N	4.7	20 / 15 / 10	45	10	35	0.90	50
CL321611T-5R6☐-N	5.6	20 / 15 / 10	45	4	32	0.70	25
CL321611T-6R8☐-N	6.8	20 / 15 / 10	45	4	29	0.80	25
CL321611T-8R2☐-N	8.2	20 / 15 / 10	45	4	26	0.90	25
CL321611T-100☐-N	10	20 / 15 / 10	45	2	24	1.00	25
CL321611T-120☐-N	12	20 / 15 / 10	45	2	22	1.00	15
CL321611T-150☐-N	15	20 / 15 / 10	35	1	19	0.70	5
CL321611T-180☐-N	18	20 / 15 / 10	35	1	18	0.75	5
CL321611T-220☐-N	22	20 / 15 / 10	35	1	16	0.90	5
CL321611T-270☐-N	27	20 / 15 / 10	35	1	14	0.90	5

- When ordering, please specify tolerance and packaging codes.
- Tolerance : K = ± 10% / L = ± 15% / M = ± 20%

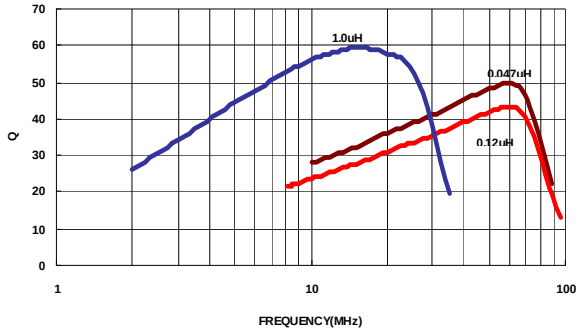
Test Instruments：Agilent E4991A Impedance / Material Analyzer

CL100505

INDUCTANCE vs. FREQUENCY CHARACTERISTICS

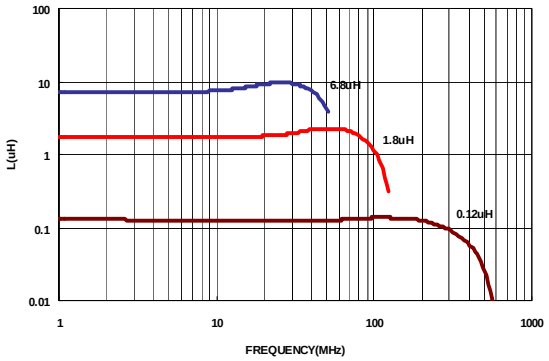


Q vs. FREQUENCY CHARACTERISTICS

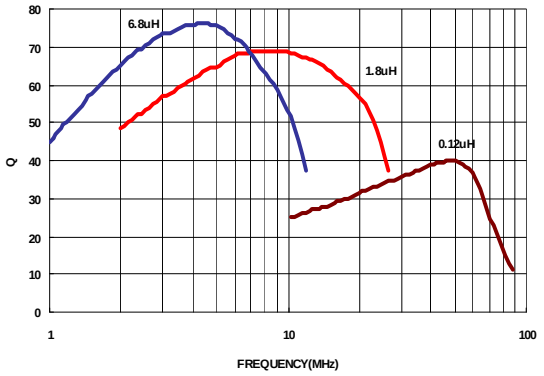


CL160808

INDUCTANCE vs. FREQUENCY CHARACTERISTICS

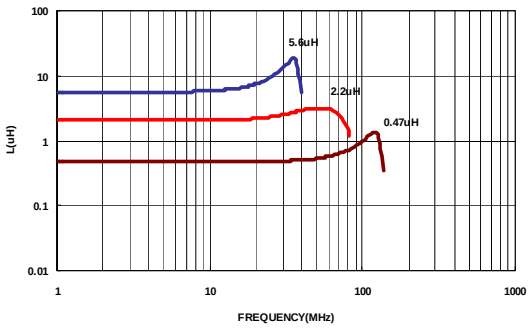


Q vs. FREQUENCY CHARACTERISTICS

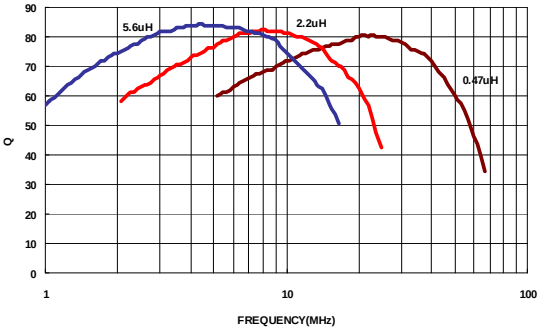


CL201209

INDUCTANCE vs. FREQUENCY CHARACTERISTICS

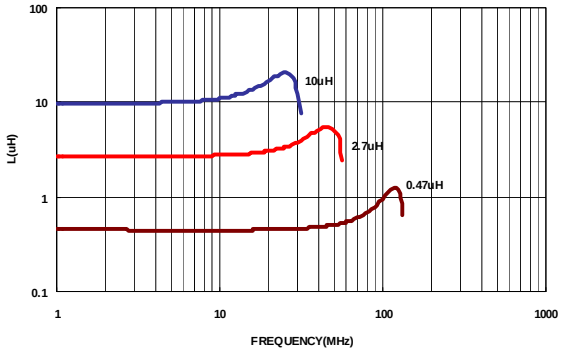


Q vs. FREQUENCY CHARACTERISTICS

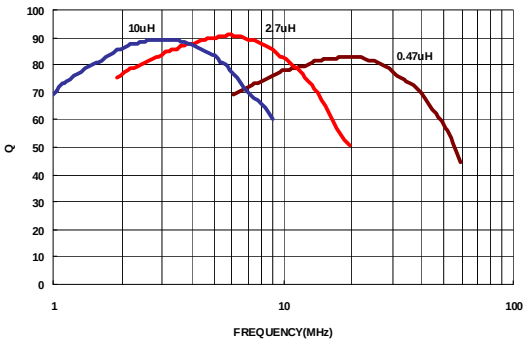


CL321611

INDUCTANCE vs. FREQUENCY CHARACTERISTICS

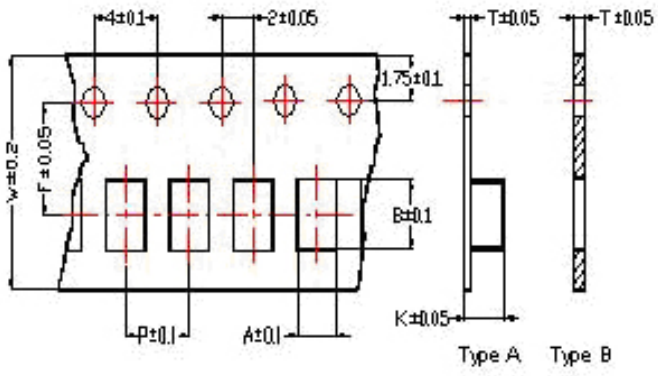


Q vs. FREQUENCY CHARACTERISTICS

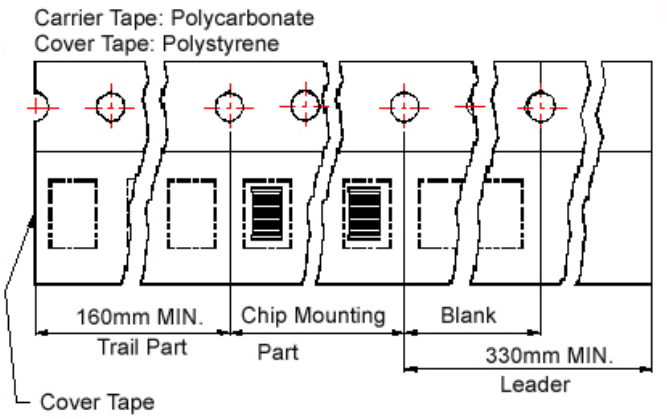


Packaging Specifications

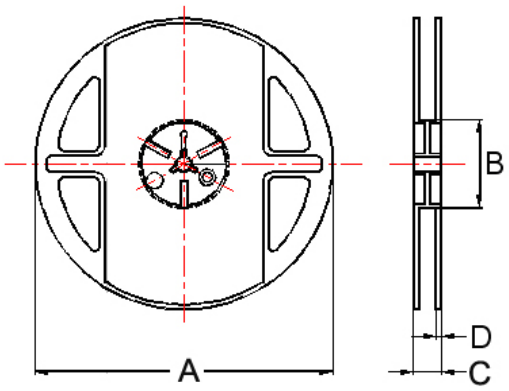
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / Reel
CL100505	0.65	1.15	0.60	8.0	2.0	3.5	-	B	178	60	12	15	10000
CL160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	1.5	4000
CL201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	1.5	4000
CL201212	1.35	2.25	0.22	8.0	4.0	3.5	1.35	A	178	60	12	1.5	3000
CL321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	1.5	3000

NL Series

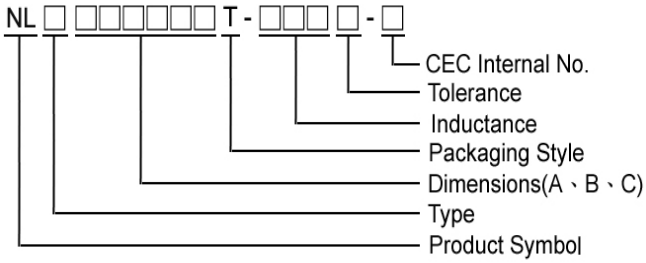
Features

- RoHS compliant
- Strong solderability by reflow soldering and soldering iron
- Highly accurate dimensions
- Can be mounted automatically
- Terminals are highly resistant to external forces
- Highly resistant to mechanical shocks and pressure
- Highly reliable in environments of sudden temperature change and humidity
- Superior Q characteristics and the broadest L selections among peers

Applications

- Microtelevisions
- Liquid crystal televisions
- Video cameras
- Portable VCRs
- Car radios
- Car stereos
- Thin tape radios
- Television tuners
- Mobile telephones
- Radio and other electronic devices

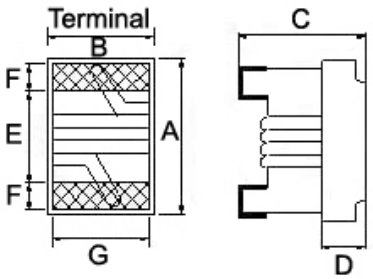
Product Identification



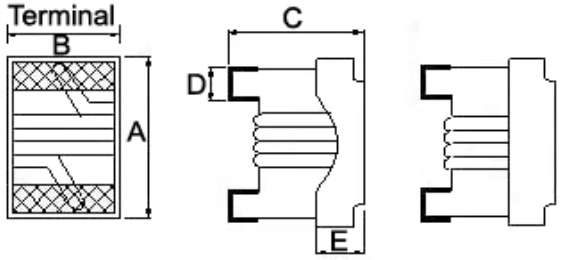
- Packaging: T：Tape and Reel

Shape and Dimensions

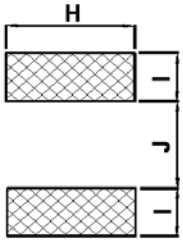
NL201614



NL252018



Recommended Pattern



Dimensions in mm

TYPE	A Max	B Max	C Max	D	E	F	G	H	I	J
NL201614	2.40	1.72	1.52	0.70	1.02	0.50	1.27	1.78	1.02	0.76
NL252018	2.92	2.50 2.79	2.20	0.51	0.51	-	-	2.54	1.02	1.27

NL252018: B Max: 2.79 mm, at 5N0~R10,
2.50 mm, at R12~101

CHILISIN ELECTRONICS CORP.

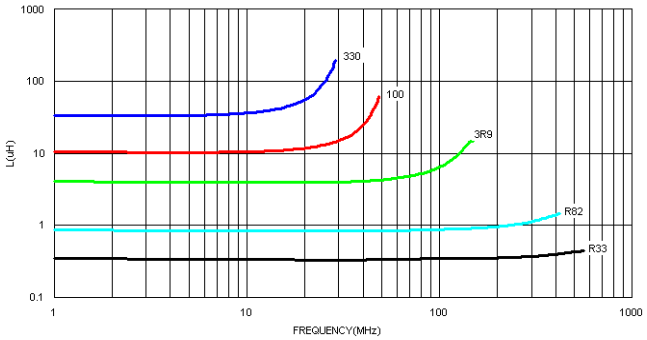
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	Rdc (Ω) Max	Idc (mA)	Color
NL201614T-R12□-N	0.12	25.2	10 / 5	25	25.2	500	0.20	600	White
NL201614T-R15□-N	0.15	25.2	10 / 5	25	25.2	450	0.25	600	Black
NL201614T-R18□-N	0.18	25.2	10 / 5	25	25.2	410	0.30	570	Brown
NL201614T-R22□-N	0.22	25.2	10 / 5	25	25.2	350	0.35	550	Red
NL201614T-R27□-N	0.27	25.2	10 / 5	25	25.2	280	0.40	530	Orange
NL201614T-R33□-N	0.33	25.2	10 / 5	25	25.2	235	0.45	510	Yellow
NL201614T-R39□-N	0.39	25.2	10 / 5	25	25.2	210	0.50	490	Green
NL201614T-R47□-N	0.47	25.2	10 / 5	25	25.2	170	0.55	470	Blue
NL201614T-R56□-N	0.56	25.2	10 / 5	25	25.2	150	0.60	450	Violet
NL201614T-R68□-N	0.68	25.2	10 / 5	25	25.2	140	0.70	420	Gray
NL201614T-R82□-N	0.82	25.2	10 / 5	25	25.2	130	0.75	400	White
NL201614T-1R0□-N	1.00	7.96	10 / 5	15	7.96	115	0.80	350	Black
NL201614T-1R2□-N	1.20	7.96	10 / 5	15	7.96	95	0.90	325	Brown
NL201614T-1R5□-N	1.50	7.96	10 / 5	15	7.96	85	1.05	300	Red
NL201614T-1R8□-N	1.80	7.96	10 / 5	15	7.96	80	1.20	270	Orange
NL201614T-2R2□-N	2.20	7.96	10 / 5	15	7.96	75	1.40	250	Yellow
NL201614T-2R7□-N	2.70	7.96	10 / 5	15	7.96	70	1.60	230	Green
NL201614T-3R3□-N	3.30	7.96	10 / 5	15	7.96	60	1.80	210	Blue
NL201614T-3R9□-N	3.90	7.96	10 / 5	15	7.96	55	2.00	190	Violet
NL201614T-4R7□-N	4.70	7.96	10 / 5	15	7.96	45	2.40	170	Gray
NL201614T-5R6□-N	5.60	7.96	10 / 5	15	7.96	40	2.70	150	White
NL201614T-6R8□-N	6.80	7.96	10 / 5	15	7.96	36	3.20	140	Black
NL201614T-8R2□-N	8.20	7.96	10 / 5	15	7.96	33	3.60	120	Brown
NL201614T-100□-N	10.0	2.52	10 / 5	15	2.52	30	4.50	110	Red
NL201614T-120□-N	12.0	2.52	10 / 5	15	2.52	25	5.70	105	Orange
NL201614T-150□-N	15.0	2.52	10 / 5	15	2.52	23	6.50	90	Yellow
NL201614T-180□-N	18.0	2.52	10 / 5	15	2.52	21	7.00	85	Green
NL201614T-220□-N	22.0	2.52	10 / 5	15	2.52	20	8.00	78	Blue
NL201614T-270□-N	27.0	2.52	10 / 5	15	2.52	18	9.00	75	Violet
NL201614T-330□-N	33.0	2.52	10 / 5	15	2.52	17	10.0	70	Gray

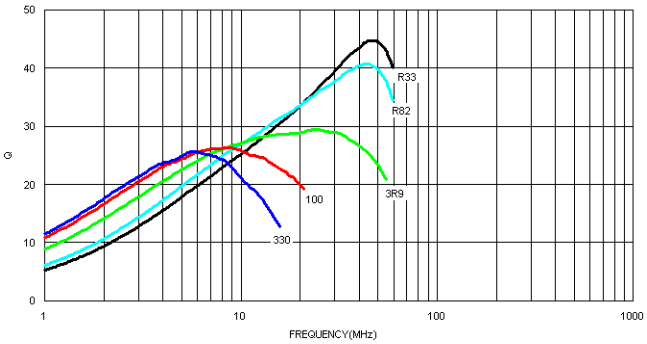
- When ordering, please specify tolerance and packaging codes.
- Tolerance： J =±5% , K = ±10%
- L/Q : Agilent E4991A+ Agilent HP16197A
- SRF: Agilent E4991A
- Rdc: CH502BC/ HP4338B
- Idc for Inductance drop 10% from its value without current.
- Operating temperature range from -25℃ to 105℃. (Including self - temperature rise)

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



Typical Q vs. Frequency

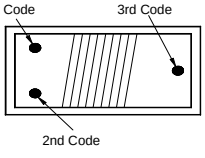


CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	Rdc (Ω) Max	Idc (mA)	Color Coding 1ST	2ND	3RD
NL252018T-5N0□-N	0.005	100	10	10	100	3000	0.25	2000	Black	Green	Black
NL252018T-10N□-N	0.010	100	10	10	100	2500	0.25	1800	Brown	Black	Black
NL252018T-12N□-N	0.012	100	10	15	100	2400	0.26	1700	Brown	Red	Black
NL252018T-15N□-N	0.015	100	10	15	100	2300	0.28	1600	Brown	Green	Black
NL252018T-18N□-N	0.018	100	10	15	100	2200	0.30	1550	Brown	Gray	Black
NL252018T-22N□-N	0.022	100	10 / 5	20	100	2100	0.35	1500	Red	Red	Black
NL252018T-27N□-N	0.027	100	10 / 5	20	100	2000	0.40	1450	Red	Violet	Black
NL252018T-33N□-N	0.033	100	10 / 5	30	100	1600	0.42	1400	Orange	Orange	Black
NL252018T-39N□-N	0.039	100	10 / 5	35	100	1500	0.45	1350	Orange	White	Black
NL252018T-47N□-N	0.047	100	10 / 5	35	100	1400	0.50	1300	Yellow	Violet	Black
NL252018T-56N□-N	0.056	100	10 / 5	35	100	1300	0.60	1250	Green	Blue	Black
NL252018T-68N□-N	0.068	100	10 / 5	35	100	1200	0.65	1240	Blue	Gray	Black
NL252018T-82N□-N	0.082	100	10 / 5	35	100	1100	0.75	1230	Gray	Red	Black
NL252018T-R10□-N	0.10	100	10 / 5	35	100	800	0.80	1220	Brown	Black	Brown
NL252018T-R12□-N	0.12	25.2	10 / 5	30	25.2	700	0.30	900	Brown	Red	Brown
NL252018T-R15□-N	0.15	25.2	10 / 5	30	25.2	550	0.35	900	Brown	Green	Brown
NL252018T-R18□-N	0.18	25.2	10 / 5	30	25.2	500	0.40	850	Brown	Gray	Brown
NL252018T-R22□-N	0.22	25.2	10 / 5	30	25.2	450	0.50	840	Red	Red	Brown
NL252018T-R27□-N	0.27	25.2	10 / 5	30	25.2	425	0.55	830	Red	Violet	Brown
NL252018T-R33□-N	0.33	25.2	10 / 5	30	25.2	400	0.60	820	Orange	Orange	Brown
NL252018T-R39□-N	0.39	25.2	10 / 5	30	25.2	375	0.65	810	Orange	White	Brown
NL252018T-R47□-N	0.47	25.2	10 / 5	30	25.2	350	0.68	800	Yellow	Violet	Brown
NL252018T-R56□-N	0.56	25.2	10 / 5	30	25.2	325	0.75	800	Green	Blue	Brown
NL252018T-R68□-N	0.68	25.2	10 / 5	30	25.2	300	0.85	800	Blue	Gray	Brown
NL252018T-R82□-N	0.82	25.2	10 / 5	30	25.2	260	1.0	800	Gray	Red	Brown
NL252018T-1R0□-N	1.0	7.96	10 / 5	25	7.96	245	1.1	800	Brown	Black	Red
NL252018T-1R2□-N	1.2	7.96	10 / 5	25	7.96	230	1.2	790	Brown	Red	Red
NL252018T-1R5□-N	1.5	7.96	10 / 5	25	7.96	182	1.3	750	Brown	Green	Red
NL252018T-1R8□-N	1.8	7.96	10 / 5	25	7.96	135	1.45	750	Brown	Gray	Red
NL252018T-2R2□-N	2.2	7.96	10 / 5	25	7.96	105	1.55	750	Red	Red	Red
NL252018T-2R7□-N	2.7	7.96	10 / 5	25	7.96	70	1.7	740	Red	Violet	Red
NL252018T-3R3□-N	3.3	7.96	10 / 5	25	7.96	55	1.9	730	Orange	Orange	Red
NL252018T-3R9□-N	3.9	7.96	10 / 5	25	7.96	48	2.1	700	Orange	White	Red
NL252018T-4R7□-N	4.7	7.96	10 / 5	25	7.96	43	2.3	650	Yellow	Violet	Red
NL252018T-5R6□-N	5.6	7.96	10 / 5	20	7.96	42	2.5	640	Green	Blue	Red
NL252018T-6R8□-N	6.8	7.96	10 / 5	20	7.96	39	2.7	630	Blue	Gray	Red
NL252018T-8R2□-N	8.2	7.96	10 / 5	20	7.96	36	3.05	600	Gray	Red	Red
NL252018T-100□-N	10	2.52	10 / 5	15	2.52	33	3.5	600	Brown	Black	Orange
NL252018T-120□-N	12	2.52	10 / 5	15	2.52	30	3.8	550	Brown	Red	Orange
NL252018T-150□-N	15	2.52	10 / 5	15	2.52	26	4.4	430	Brown	Green	Orange
NL252018T-180□-N	18	2.52	10 / 5	15	2.52	24	4.8	400	Brown	Gray	Orange
NL252018T-220□-N	22	2.52	10 / 5	15	2.52	22	5.5	400	Red	Red	Orange
NL252018T-270□-N	27	2.52	10 / 5	15	2.52	21	6.3	360	Red	Violet	Orange
NL252018T-330□-N	33	2.52	10 / 5	15	2.52	20	7.1	350	Orange	Orange	Orange
NL252018T-390□-N	39	2.52	10 / 5	10	2.52	18	9.5	330	Orange	White	Orange
NL252018T-470□-N	47	2.52	10 / 5	10	2.52	17	11.1	300	Yellow	Violet	Orange
NL252018T-560□-N	56	2.52	10 / 5	10	2.52	16	12.1	270	Green	Blue	Orange
NL252018T-680□-N	68	2.52	10 / 5	10	2.52	15	16.6	250	Blue	Gray	Orange
NL252018T-820□-N	82	2.52	10 / 5	10	2.52	13	19	200	Gray	Red	Orange
NL252018T-101□-N	100	0.796	10 / 5	8	0.796	12	21	120	Brown	Black	Yellow

- When ordering, please specify tolerance and packaging codes.
- Tolerance： J =±5% , K = ±10%
- L/Q：Agilent E4991A+ Agilent HP16197A(Over 1MHz) or Agilent/HP4285A+ Agilent HP16197A(Under 1MHz)
- SRF：Agilent HP8753D / Agilent E4991A
- RDC：CH502BC/ HP4338B
- Idc for Inductance drop 10% from its value without current.
- Operating temperature range from -25℃ to 105℃. (Including self - temperature rise)

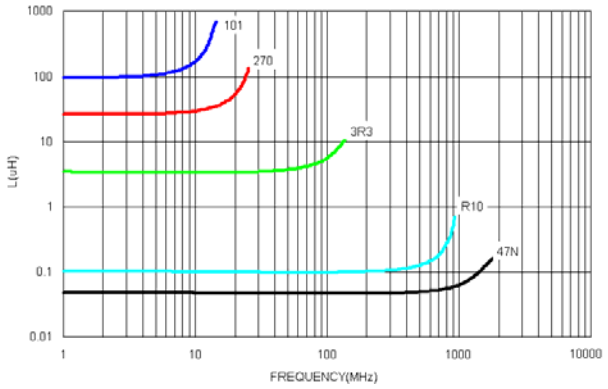


COLOR CODING

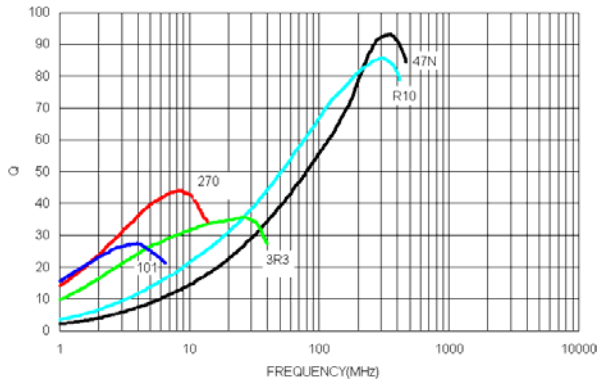
CHILISIN ELECTRONICS CORP.

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency

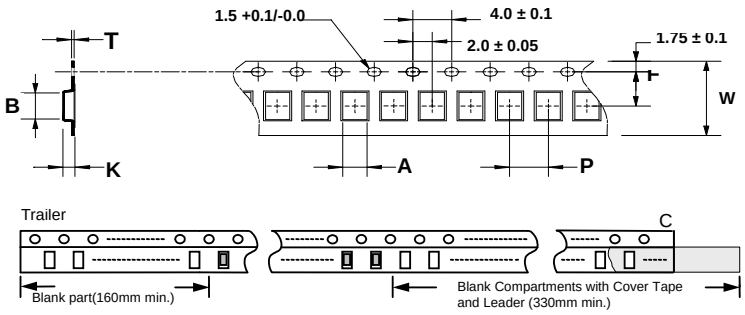


Typical Q vs. Frequency

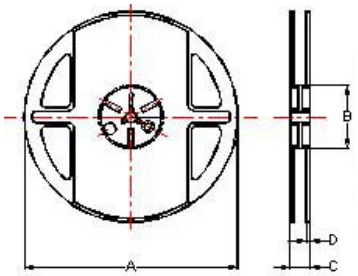


Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
NL201614	1.85	2.45	0.23	8	4	3.5	1.45	178	60	12	1.5	2000
NL252018(5N0~R10)	2.80	2.95	0.23	8	4	3.5	2.20	178	60	12	1.5	2000
NL252018(R12~101)	2.61	2.93	0.26	8	4	3.5	2.25	178	60	12	1.5	2000

NLC Series

The characteristics of this series perform low RDC and carry large current. These unique open type inductors offer many superior features in opposition to the molding type one of Japanese peers.

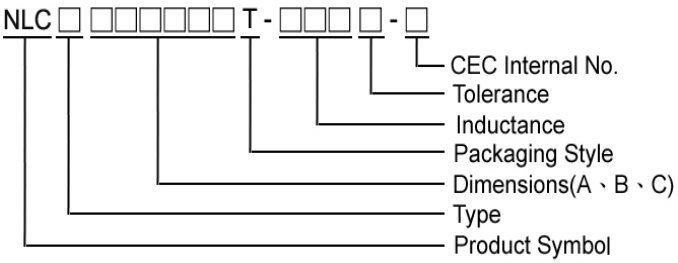
Features

- RoHS compliant
- Very strong solderability by reflow soldering and soldering iron
- Highly accurate dimensions can be mounted automatically
- Terminals are highly resistant to pull forces
- Highly resistant to mechanical shocks and pressure
- Highly reliable in environments of sudden temperature change and humidity
- Superior IDC for DC/DC converter

Applications

- DC/DC converter such as DSC
- LCD TV
- Game console
- Portable VCRs
- Conveyable telephone and others

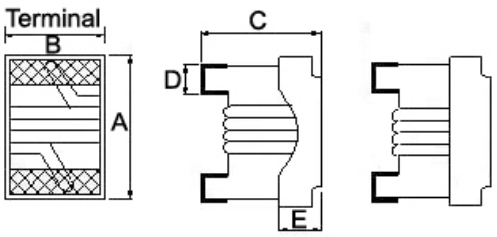
Product Identification



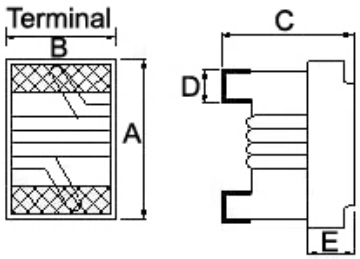
- Packaging: T：Tape and Reel

Shape and Dimensions

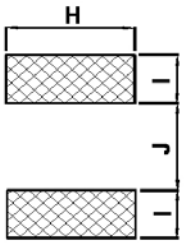
NLC252018



NLC322522



Recommended Pattern



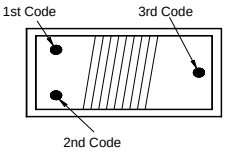
Dimensions in mm

TYPE	A Max	B Max	C Max	D	E	H	I	J
NLC252018	2.92	2.50	2.20	0.51	0.51	2.54	1.02	1.27
NLC322522	3.70	2.90	2.60	0.51	0.51	2.70	1.00	2.00

Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	Rdc (Ω) Max	Idc (mA)	Color Coding 1ST	2ND	3RD
NLC252018T-1R0□-N	1.0	7.96	10 / 5	25	7.96	300	0.34	1500	Brown	Black	Red
NLC252018T-1R5□-N	1.5	7.96	10 / 5	25	7.96	270	0.42	1400	Brown	Green	Red
NLC252018T-2R2□-N	2.2	7.96	10 / 5	25	7.96	140	0.50	1200	Red	Red	Red
NLC252018T-3R3□-N	3.3	7.96	10 / 5	25	7.96	95	0.65	1000	Orange	Orange	Red
NLC252018T-4R7□-N	4.7	7.96	10 / 5	25	7.96	90	0.80	800	Yellow	Violet	Red
NLC252018T-6R8□-N	6.8	7.96	10 / 5	25	7.96	68	1.00	730	Blue	Gray	Red
NLC252018T-100□-N	10	2.52	10 / 5	20	2.52	45	1.50	700	Brown	Black	Orange
NLC252018T-150□-N	15	2.52	10 / 5	20	2.52	40	2.20	500	Brown	Green	Orange
NLC252018T-220□-N	22	2.52	10 / 5	20	2.52	25	2.70	470	Red	Red	Orange
NLC252018T-330□-N	33	2.52	10 / 5	20	2.52	25	4.00	400	Orange	Orange	Orange
NLC252018T-470□-N	47	2.52	10 / 5	16	2.52	20	8.00	300	Yellow	Violet	Orange

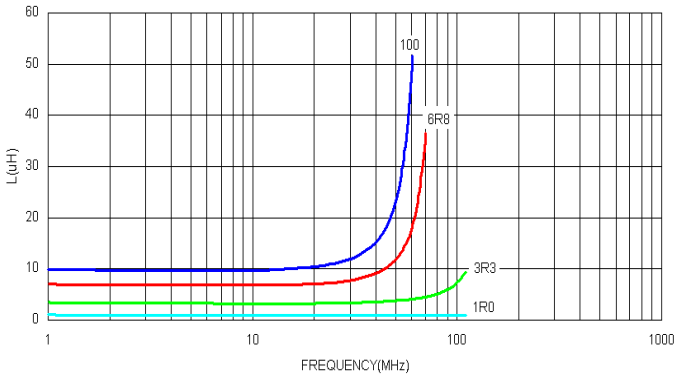
- When ordering, please specify tolerance and packaging codes.
- Tolerance: J = ±5%, K = ±10%
- L /Q：Agilent E4991A + Agilent HP16197A
- SRF： Agilent E4991A
- RDC：CH502BC/ HP4338B
- Idc for Inductance drop 10% from its value without current.
- Operating temperature range from -25℃ to 105℃ (Including self - temperature rise)



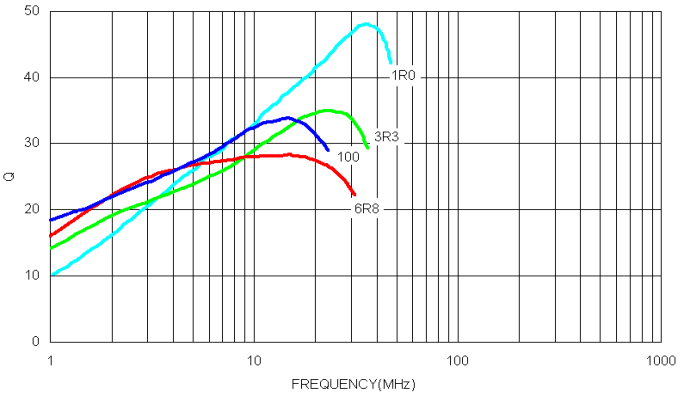
COLOR CODING

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



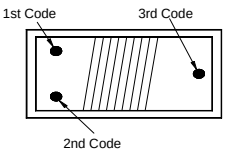
Typical Q vs. Frequency



Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Typ	Rdc (Ω)±30%	Idc (mA)	Color Coding 1ST	2ND	3RD
NLC322522T-R47□-N	0.47	25.2	5 / 10	40	25.2	450	0.07	1800	Yellow	Violet	Brown
NLC322522T-1R0□-N	1.0	7.96	5 / 10	20	7.96	100	0.08	1500	Brown	Black	Red
NLC322522T-1R2□-N	1.2	7.96	5 / 10	20	7.96	90	0.12	1400	Brown	Red	Red
NLC322522T-1R5□-N	1.5	7.96	5 / 10	20	7.96	80	0.13	1125	Brown	Green	Red
NLC322522T-1R8□-N	1.8	7.96	5 / 10	20	7.96	70	0.13	970	Brown	Gray	Red
NLC322522T-2R2□-N	2.2	7.96	5 / 10	20	7.96	68	0.13	970	Red	Red	Red
NLC322522T-3R3□-N	3.3	7.96	5 / 10	20	7.96	54	0.16	837	Orange	Orange	Red
NLC322522T-4R7□-N	4.7	7.96	5 / 10	20	7.96	43	0.23	675	Yellow	Violet	Red
NLC322522T-5R6□-N	5.6	7.96	5 / 10	20	7.96	36	0.26	620	Green	Blue	Red
NLC322522T-6R8□-N	6.8	7.96	5 / 10	20	7.96	33	0.27	600	Blue	Gray	Red
NLC322522T-8R2□-N	8.2	7.96	5 / 10	20	7.96	30	0.32	580	Gray	Red	Red
NLC322522T-100□-N	10	2.52	5 / 10	15	2.52	28	0.36	520	Brown	Black	Orange
NLC322522T-150□-N	15	2.52	5 / 10	15	2.52	19	0.56	480	Brown	Green	Orange
NLC322522T-220□-N	22	2.52	5 / 10	15	2.52	16	0.77	310	Red	Red	Orange
NLC322522T-270□-N	27	2.52	5 / 10	15	2.52	13	1.00	280	Red	Violet	Orange
NLC322522T-330□-N	33	2.52	5 / 10	15	2.52	12	1.10	270	Orange	Orange	Orange
NLC322522T-470□-N	47	2.52	5 / 10	15	2.52	10	1.64	210	Yellow	Violet	Orange
NLC322522T-680□-N	68	2.52	5 / 10	15	2.52	9	2.80	189	Blue	Gray	Orange
NLC322522T-101□-N	100	0.796	5 / 10	15	0.796	6	3.70	145	Brown	Black	Yellow
NLC322522T-151□-N	150	0.796	5 / 10	15	0.796	5	6.10	120	Brown	Green	Yellow
NLC322522T-181□-N	180	0.796	5 / 10	15	0.796	4	8.00	105	Brown	Gray	Yellow
NLC322522T-221□-N	220	0.796	5 / 10	15	0.796	4	8.40	100	Red	Red	Yellow
NLC322522T-331□-N	330	0.796	5 / 10	15	0.796	3.5	12.3	80	Orange	Orange	Yellow
NLC322522T-471□-N	470	0.796	5 / 10	15	0.796	2.8	22.0	75	Yellow	Violet	Yellow
NLC322522T-561□-N	560	0.796	5 / 10	15	0.796	2.5	23.0	65	Green	Blue	Yellow
NLC322522T-681□-N	680	0.796	5 / 10	15	0.796	2	28.0	65	Blue	Gray	Yellow

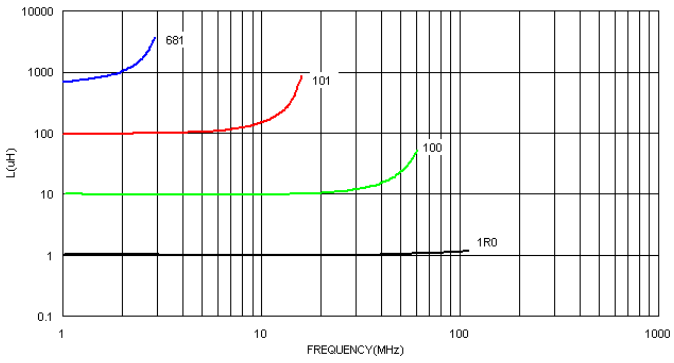
- When ordering, please specify tolerance and packaging codes.
- Tolerance: J = ±5%, K = ±10%
- Packaging: Clear tape and reel {standard}.
- L/Q: Agilent E4991A+Agilent HP16197A (over 1MHz); Agilent/HP4285A+Agilent HP16197A (under 1MHz)
- SRF: Agilent E4991A
- RDC: HP4338B/ CH502BC
- Idc for Inductance drop 10% from its value without current.
- Operating temperature range from -25℃ to 105℃. (Including self - temperature rise)



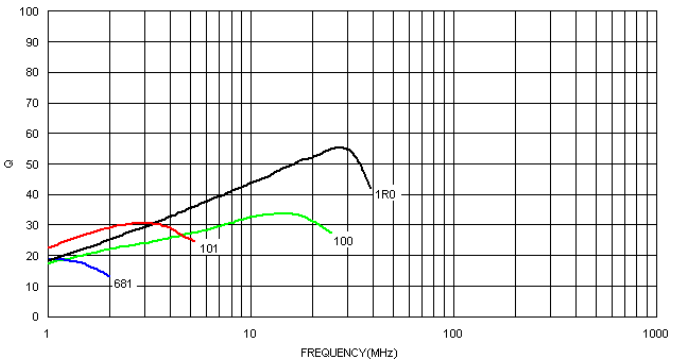
COLOR CODING

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



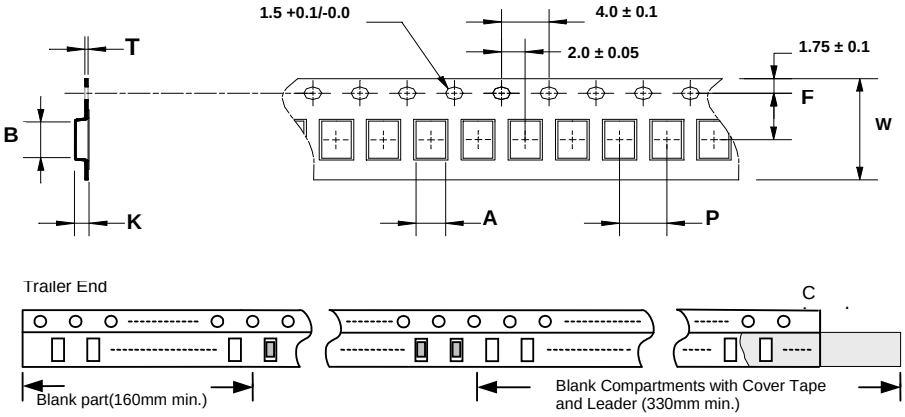
Typical Q vs. Frequency



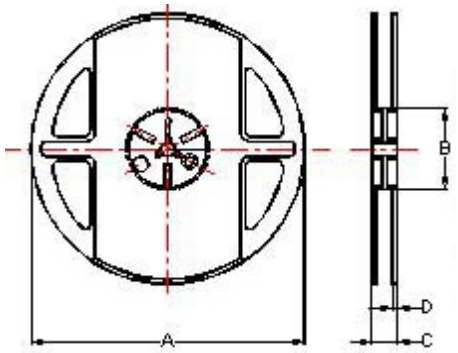
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
NLC252018	2.61	2.93	0.26	8	4	3.5	2.25	178	60	12	1.5	2000
NLC322522	2.85	3.58	0.25	12	4	5.5	2.45	178	60	16	1.4	2000

LD Series

LD series is the newest open type ferrite wire wound chip inductors. The wire wound ferrite construction supports lower DCR than other open type inductors.

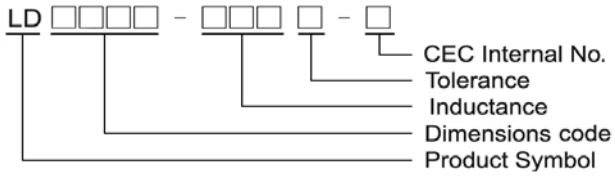
Features

- RoHS compliant
- Miniature SMD type 0805 wire-wound chip inductor with low DC resistance
- Wide inductance range (1uH~100uH)

Applications

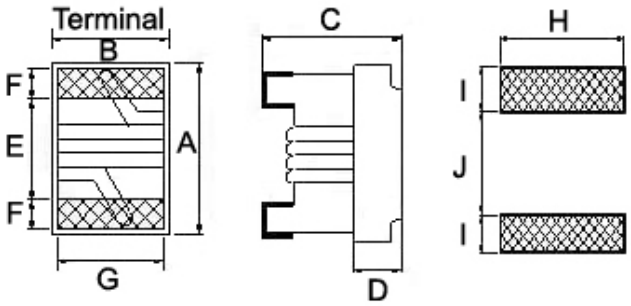
- DSC, DVC, MD, PDA
- Portable digital devices

Product Identification



Shape and Dimensions / Recommended Pattern

LD0805



Dimensions in mm

TYPE	A Max	B Max	C Max	D	E	F	G	H	I	J
LD0805	2.4	1.72	1.52	0.70	1.00	0.50	1.27	1.78	1.02	0.76

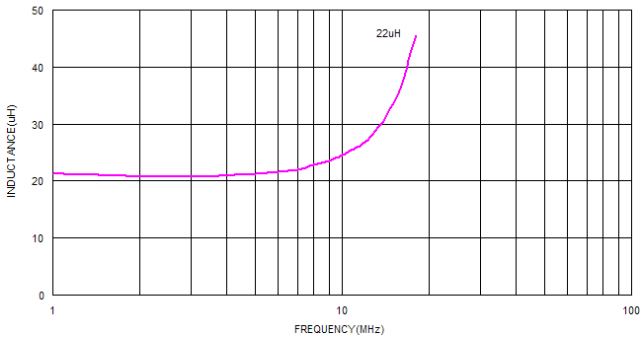
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	Q Typ.	SRF (MHz) Min	Rdc (Ω±30%)	Idc (mA) Max	Color
LD0805-1R0□-N	1.0	7.96	10 / 20	18	100	0.10	800	Black
LD0805-1R5□-N	1.5	7.96	10 / 20	18	90	0.18	650	Brown
LD0805-2R2□-N	2.2	7.96	10 / 20	18	70	0.24	550	Red
LD0805-3R3□-N	3.3	7.96	10 / 20	18	55	0.30	450	Orange
LD0805-4R7□-N	4.7	7.96	10 / 20	18	50	0.47	360	Yellow
LD0805-6R8□-N	6.8	7.96	10 / 20	24	60	0.75	290	Green
LD0805-100□-N	10	2.52	10 / 20	18	25	0.90	290	Blue
LD0805-150□-N	15	2.52	10 / 20	18	25	1.60	230	Violet
LD0805-220□-N	22	2.52	10 / 20	18	17	1.95	190	Gray
LD0805-330□-N	33	2.52	10 / 20	17	15	2.60	120	White
LD0805-470□-N	47	2.52	10 / 20	17	11	3.90	95	Black
LD0805-680□-N	68	2.52	10 / 20	17	11	5.50	95	Brown
LD0805-101□-N	100	1.00	10 / 20	12	9	9.00	70	Red

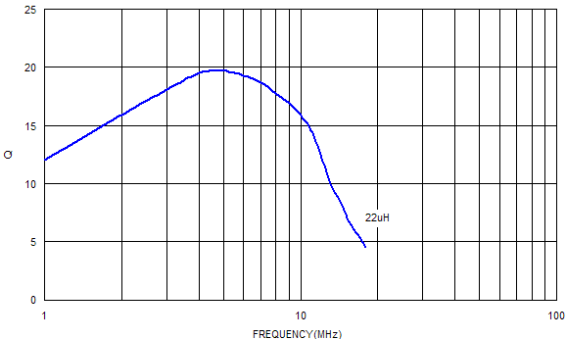
- When ordering, please specify tolerance and packaging codes.
- Tolerance： K = ±10%, M = ±20%
- L , Q : Agilent E4991A+Agilent HP16197A(over 1MHz) or Agilent HP4285A(under 1MHz)
- SRF : Agilent E4991A
- Rdc :CH502BC/ HP4338B
- Idc for Inductance drop 10% from its value without current.
- Operating temperature range from -25℃ to 105℃. (Including self - temperature rise)

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency

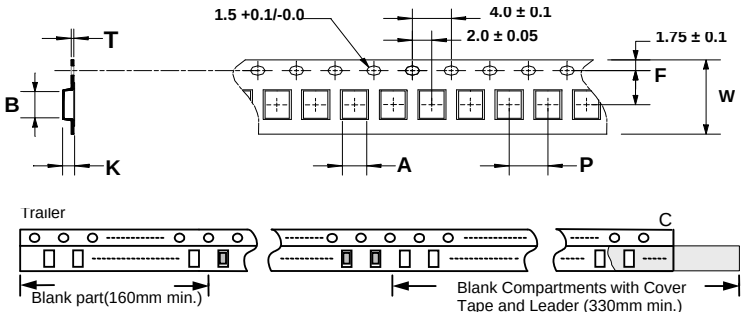


Typical Q vs. Frequency

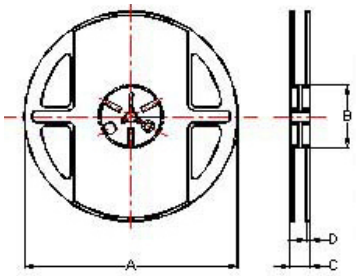


Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
LD 0805	1.60	2.42	0.22	8	4	3.5	1.45	178	60	12	1.5	2000

LS Series

LS Series is the newest in open type ferrite wire wound chip inductors. The wire wound ferrite construction supports higher SRF, lower DCR and superior Q values than other ferrite chip inductors.

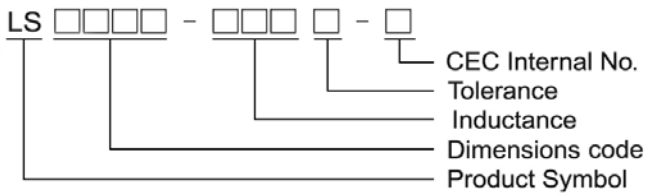
Features

- RoHS compliant
- Very strong solderability by reflow soldering and soldering iron
- Highly accurate dimensions
- Can be mounted automatically
- Terminals are highly resistant to external forces
- Highly resistant to mechanical shocks and pressure
- Highly reliable in environments of sudden temperature change and humidity
- Low DCR & better Q value in ferrite series

Applications

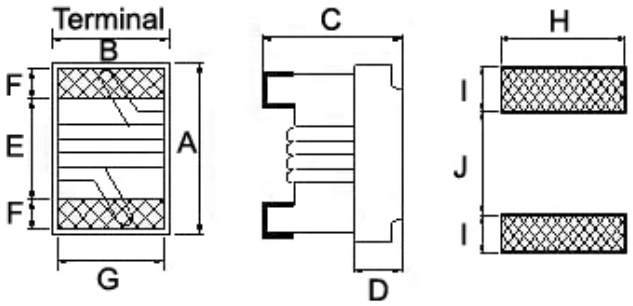
- Telecom and datacom applications such as xDSL
- Cable modem
- Set-top box
- CATV filter/tuner
- Wireless LAN, etc

Product Identification



Shape and Dimensions / Recommended Pattern

LS0603/0805/1008



Dimensions in mm

TYPE	A Max	B Max	C Max	D	E	F	G	H	I	J
LS0603	1.8	1.25	1.02	0.38	0.86	0.33	0.76	1.02	0.64	0.64
LS0805	2.4	1.72	1.52	0.70	1.02	0.50	1.27	1.78	1.02	0.76
LS1008	2.99	2.50	2.20	0.70	1.52	0.51	2.03	2.54	1.02	1.27

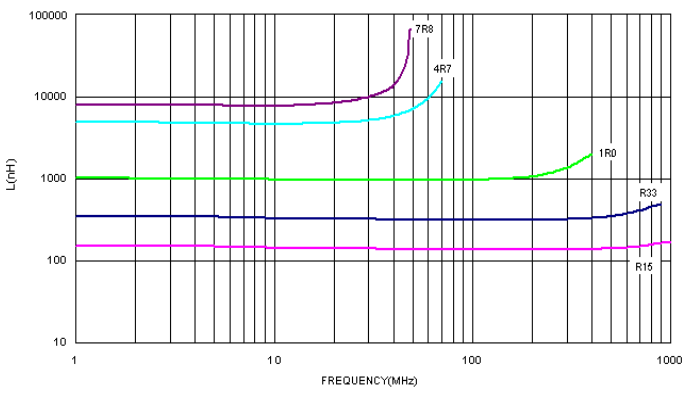
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	Q Typ.	SRF (MHz) Min	Rdc (Ω) Max	Idc (mA)	Color
LS0603-47N□-N	0.047	7.9	10 / 5	17	1700	0.075	1500	Black
LS0603-72N□-N	0.072	7.9	10 / 5	17	1700	0.12	1500	Brown
LS0603-R10□-N	0.10	7.9	10 / 5	17	1650	0.13	1500	Red
LS0603-R12□-N	0.12	7.9	10 / 5	17	1350	0.15	1500	Orange
LS0603-R15□-N	0.15	7.9	10 / 5	17	1350	0.15	1450	Yellow
LS0603-R18□-N	0.18	7.9	10 / 5	17	1150	0.15	1400	Green
LS0603-R22□-N	0.22	7.9	10 / 5	17	1050	0.16	1350	Blue
LS0603-R24□-N	0.24	7.9	10 / 5	17	1050	0.19	1300	Violet
LS0603-R27□-N	0.27	7.9	10 / 5	17	1050	0.30	1050	Gray
LS0603-R33□-N	0.33	7.9	10 / 5	17	850	0.46	1200	White
LS0603-R39□-N	0.39	7.9	10 / 5	17	810	0.51	1200	Black
LS0603-R47□-N	0.47	7.9	10 / 5	17	720	0.62	1050	Brown
LS0603-R56□-N	0.56	7.9	10 / 5	17	600	0.44	850	Red
LS0603-R68□-N	0.68	7.9	10 / 5	17	600	0.52	850	Orange
LS0603-R78□-N	0.78	7.9	10 / 5	17	460	0.83	850	Yellow
LS0603-R82□-N	0.82	7.9	10 / 5	17	480	0.69	750	Green
LS0603-1R0□-N	1.0	7.9	10 / 5	18	310	0.81	600	Blue
LS0603-1R2□-N	1.2	7.9	10 / 5	17	270	0.87	550	Violet
LS0603-1R5□-N	1.5	7.9	10 / 5	17	270	1.06	540	Gray
LS0603-1R8□-N	1.8	7.9	10 / 5	17	230	1.10	520	White
LS0603-2R2□-N	2.2	7.9	10 / 5	17	140	1.20	500	Black
LS0603-2R7□-N	2.7	7.9	10 / 5	17	105	1.50	480	Brown
LS0603-3R3□-N	3.3	7.9	10 / 5	17	84	1.50	440	Red
LS0603-3R9□-N	3.9	7.9	10 / 5	17	80	1.60	430	Orange
LS0603-4R7□-N	4.7	7.9	10 / 5	18	69	2.10	420	Yellow
LS0603-5R6□-N	5.6	7.9	10 / 5	18	65	2.60	400	Green
LS0603-6R8□-N	6.8	7.9	10 / 5	19	55	3.10	400	Blue
LS0603-7R8□-N	7.8	7.9	10 / 5	17	47	3.50	400	Violet
LS0603-8R2□-N	8.2	7.9	10 / 5	17	42	3.80	400	Gray
LS0603-100□-N	10	7.9	10 / 5	19	40	4.80	300	White

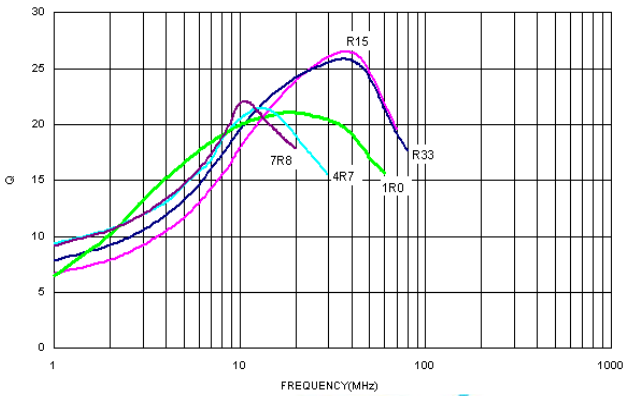
- When ordering, please specify tolerance and packaging codes.
- Tolerance：J = ±5% , K = ±10%
- L , Q : Agilent E4991A+ Agilent HP16197A
- SRF : Agilent E4991A
- Rdc : CH502BC/ HP4338B
- Idc for Inductance drop 10% from its value without current.
- Operating temperature range from -25℃ to 105℃. (Including self - temperature rise)

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



Typical Q vs. Frequency



CHILISIN ELECTRONICS CORP.

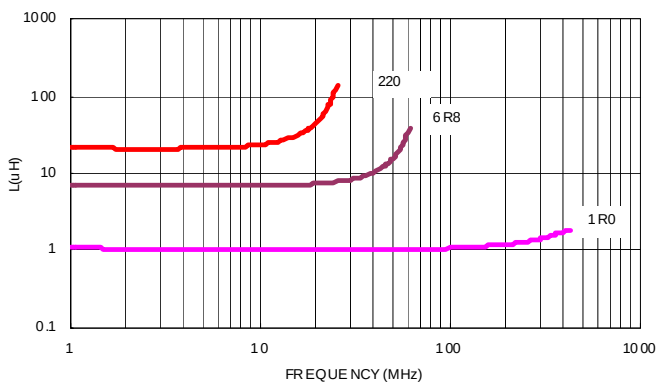
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	Q Typ.	SRF (MHz) Min	Rdc (Ω) Max	Idc (mA)	Color
LS0805-78N□-N	0.078	7.9	10 / 5	19	1440	0.06	2000	Black
LS0805-R11□-N	0.11	7.9	10 / 5	19	1200	0.07	2000	Brown
LS0805-R47□-N	0.47	7.9	10 / 5	19	480	0.40	800	Red
LS0805-R56□-N	0.56	7.9	10 / 5	19	480	0.40	800	Yellow
LS0805-R68□-N	0.68	7.9	10 / 5	20	480	0.40	800	Orange
LS0805-1R0□-N	1.0	7.9	10 / 5	20	400	0.69	700	Yellow
LS0805-1R5□-N	1.5	7.9	10 / 5	20	330	0.83	700	Green
LS0805-1R8□-N	1.8	7.9	10 / 5	20	300	1.00	650	Blue
LS0805-2R2□-N	2.2	7.9	10 / 5	20	250	1.10	650	Violet
LS0805-2R7□-N	2.7	7.9	10 / 5	23	200	1.25	650	Gray
LS0805-3R3□-N	3.3	7.9	10 / 5	23	160	1.45	650	White
LS0805-3R9□-N	3.9	7.9	10 / 5	23	90	1.50	600	Black
LS0805-4R7□-N	4.7	7.9	10 / 5	20	70	1.60	530	Brown
LS0805-5R6□-N	5.6	7.9	10 / 5	20	65	1.70	500	Red
LS0805-6R8□-N	6.8	7.9	10 / 5	20	45	1.95	470	Orange
LS0805-8R2□-N	8.2	2.5	10 / 5	16	45	2.10	450	Yellow
LS0805-100□-N	10	2.5	10 / 5	16	40	2.40	400	Green
LS0805-120□-N	12	2.5	10 / 5	16	38	3.20	360	Red
LS0805-150□-N	15	2.5	10 / 5	16	30	3.55	350	Blue
LS0805-180□-N	18	2.5	10 / 5	16	25	4.90	300	Orange
LS0805-220□-N	22	2.5	10 / 5	16	20	5.45	270	Violet
LS0805-270□-N	27	2.5	10 / 5	16	19	7.80	240	Gray
LS0805-470□-N	47	2.5	10 / 5	16	15	14.50	180	Brown

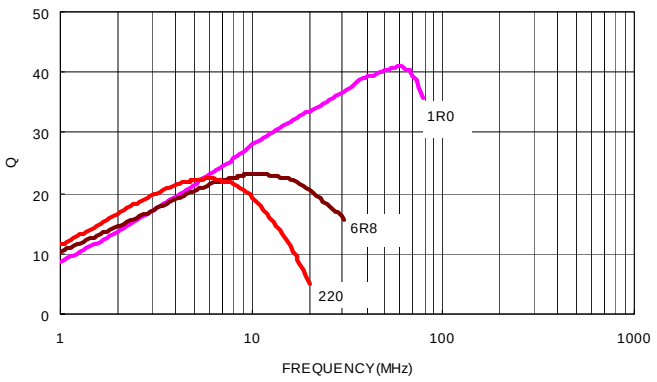
- When ordering, please specify tolerance and packaging codes.
- Tolerance：J = ±5% , K = ±10%
- L , Q : Agilent E4991A + Agilent HP16197A
- SRF : Agilent E4991A
- Rdc :CH502BC/ HP4338B
- Idc for Inductance drop 10% from its value without current.
- Operating temperature range from -25℃ to 105℃. (Including self - temperature rise)

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



Typical Q vs. Frequency



CHILISIN ELECTRONICS CORP.

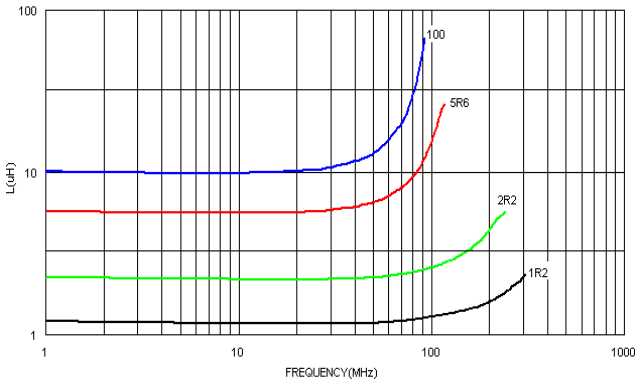
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	Q Typ. 7.9MHz	Q Typ. 25MHz	Q Typ. 50MHz	SRF (MHz) Min	Rdc (Ω) Max	Idc (mA)	Color Coding 1ST	Color Coding 2ND	Color Coding 3RD
LS1008-1R2□-N	1.2	7.9	10 / 5	35	47	55	350	0.50	1200	Brown	Red	Red
LS1008-1R5□-N	1.5	7.9	10 / 5	38	53	58	300	0.65	1200	Brown	Green	Red
LS1008-1R8□-N	1.8	7.9	10 / 5	34	47	54	280	0.75	1050	Brown	Gray	Red
LS1008-2R2□-N	2.2	7.9	10 / 5	34	43	48	250	0.90	950	Red	Red	Red
LS1008-2R7□-N	2.7	7.9	10 / 5	38	49	51	200	1.00	950	Red	Violet	Red
LS1008-3R3□-N	3.3	7.9	10 / 5	42	57	58	200	1.15	900	Orange	Orange	Red
LS1008-3R9□-N	3.9	7.9	10 / 5	37	46	47	170	1.25	850	Orange	White	Red
LS1008-4R7□-N	4.7	7.9	10 / 5	37	43	38	130	1.35	700	Yellow	Violet	Red
LS1008-5R6□-N	5.6	7.9	10 / 5	36	40	29	110	1.45	700	Green	Blue	Red
LS1008-6R8□-N	6.8	7.9	10 / 5	33	39	33	105	1.60	600	Blue	Gray	Red
LS1008-8R2□-N	8.2	7.9	10 / 5	40	43	28	90	1.80	550	Gray	Red	Red
LS1008-100□-N	10.0	7.9	10 / 5	40	41	25	85	2.40	500	Brown	Black	Orange

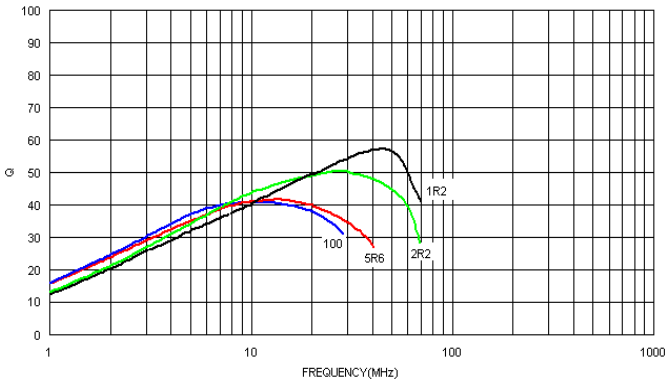
- When ordering, please specify tolerance and packaging codes.
- Tolerance：J = ±5% , K = ±10%
- L /Q: Agilent E4991A+ Agilent HP16197A
- SRF: Agilent E4991A
- Rdc: CH502BC/ HP4338B
- Idc for Inductance drop 10% from its value without current
- Operating temperature range from -25℃ to 105℃. (Including self - temperature rise)

Test Instruments：Agilent E4991A Material/Impedance Analyzer

Typical L vs. Frequency



Typical Q vs. Frequency

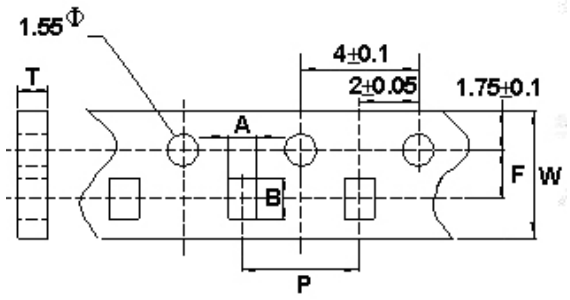


Packaging Specifications

Tape Dimensions

Tape Material

Figure 1



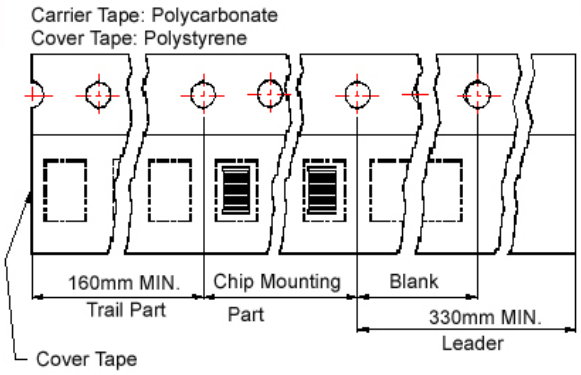
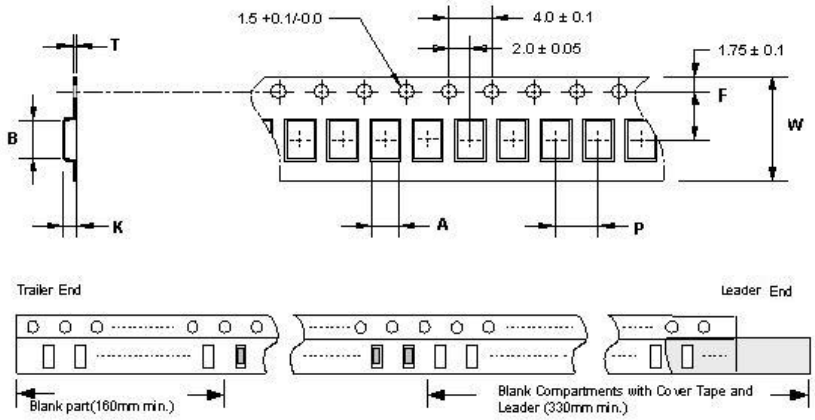
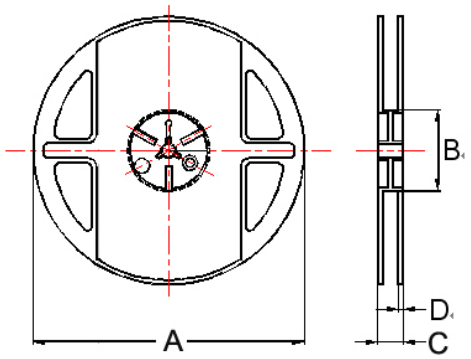


Figure 2



Reel Dimensions



Dimensions in mm

TYPE	Fig.	Tape Dimensions							Reel Dimensions				Quantity
		A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
LS0603	1	1.30	2.00	0.97	8	4	3.5	-	178	60	12	1.5	4000
LS0805	2	1.60	2.42	0.22	8	4	3.5	1.45	178	60	12	1.5	2000
LS1008	2	2.61	2.93	0.26	8	4	3.5	2.25	178	60	12	1.5	2000

PS Series

PS series is the newest shielding type ferrite wire wound chip inductor. This wire wound ferrite construction provides extremely low DCR and high rating current.

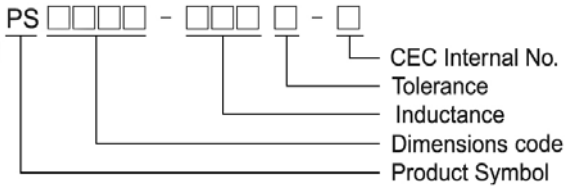
Features

- RoHS compliant
- Shielded power inductors
- Specially designed ferrite cover provides magnetic shielding
- Best possible surface for pick and place handling

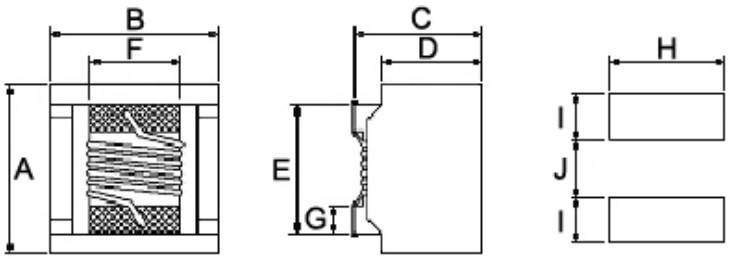
Applications

- Notebook computers
- PC cards
- Wireless communication
- Handheld devices

Product Identification



Shape and Dimensions / Recommended Pattern



Dimensions in mm

TYPE	A Max	B Max		C Max	D	E	F	G	H	I	J
PS1008	3.81	3.81	2.94	3.05	2.20	2.54	2.03	0.51	2.54	1.02	1.27

C：2.94^{+0} mm at 1R0~331/ 561~102
3.05^{+0} mm at 471

CHILISIN ELECTRONICS CORP.

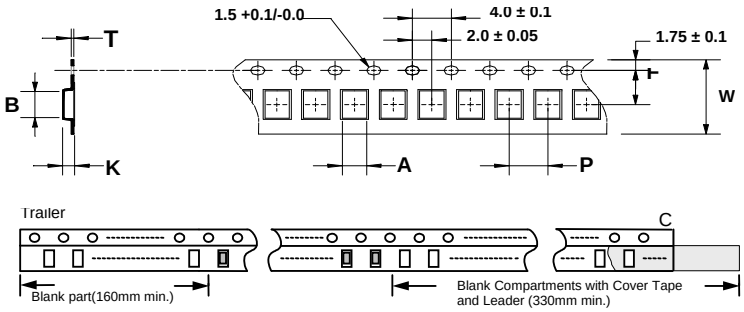
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	Q Typ.	Test Frequency (MHz)	SRF (MHz) Typ.	Rdc (Ω) Max	Idc (A)
PS1008-1R0☐-N	1.0	0.1	20 / 10	26	1	344	0.05	3.0
PS1008-1R5☐-N	1.5	0.1	20 / 10	26	1	260	0.08	2.8
PS1008-1R8☐-N	1.8	0.1	20 / 10	28	1	225	0.09	2.1
PS1008-2R7☐-N	2.7	0.1	20 / 10	30	1	185	0.14	1.5
PS1008-3R9☐-N	3.9	0.1	20 / 10	30	1	172	0.29	1.2
PS1008-4R7☐-N	4.7	0.1	20 / 10	30	1	157	0.35	1.1
PS1008-5R6☐-N	5.6	0.1	20 / 10	30	1	150	0.39	1.1
PS1008-6R8☐-N	6.8	0.1	20 / 10	30	1	110	0.58	0.9
PS1008-100☐-N	10	0.1	20 / 10	30	1	95	0.75	0.82
PS1008-150☐-N	15	0.1	20 / 10	30	1	75	1.15	0.70
PS1008-220☐-N	22	0.1	20 / 10	33	1	30	1.40	0.65
PS1008-330☐-N	33	0.1	20 / 10	33	1	21	1.61	0.52
PS1008-390☐-N	39	0.1	20 / 10	33	1	18	1.85	0.46
PS1008-470☐-N	47	0.1	20 / 10	33	1	15	2.20	0.43
PS1008-680☐-N	68	0.1	20 / 10	33	1	12	3.80	0.33
PS1008-820☐-N	82	0.1	20 / 10	33	1	10	4.30	0.32
PS1008-101☐-N	100	0.1	20 / 10	33	1	8	4.80	0.31
PS1008-121☐-N	120	0.1	20 / 10	33	1	8	5.0	0.25
PS1008-151☐-N	150	0.1	20 / 10	33	1	5.8	6.5	0.24
PS1008-221☐-N	220	0.1	20 / 10	33	1	5.5	12.0	0.22
PS1008-331☐-N	330	0.1	20 / 10	33	1	3.8	17.0	0.20
PS1008-471☐-N	470	0.1	20 / 10	33	1	3.1	19.0	0.16
PS1008-561☐-N	560	0.1	20 / 10	33	1	2.8	18.4	0.13
PS1008-681☐-N	680	0.1	20 / 10	33	1	2.5	24.0	0.12
PS1008-821☐-N	820	0.1	20 / 10	23	1	2.0	26.0	0.10
PS1008-102☐-N	1000	0.1	20 / 10	20	1	1.5	29.2	0.10

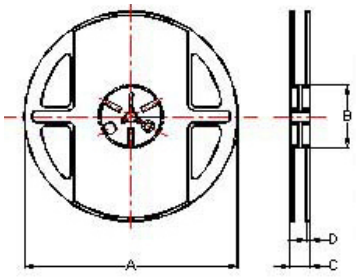
- When ordering, please specify tolerance and packaging codes.
- Tolerance： K = ±10% , M =±20%
- L : Agilent/HP4285A 0.1Vrms
- Q : Agilent E4991A + Agilent HP16197A
- SRF : Agilent E4991A
- Rdc : CH502BC/ HP4338B
- Idc for Inductance drop 10% from its value without current.
- Operating temperature range from -25℃ to 105℃. (Including self - temperature rise)

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
PS 1008	3.85	3.85	0.25	12	8	5.5	2.85	178	60	16	1.4	750

LT Series

LT series is the newest open type ferrite wire wound chip inductors. This wire wound ferrite construction supports thinness for low profile application.

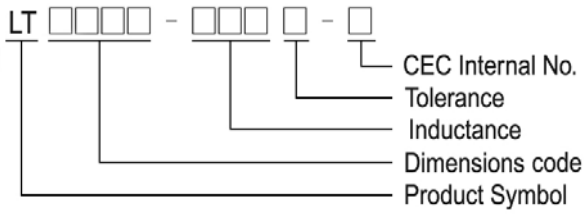
Features

- RoHS compliant
- At just 1.05mm in height, these are one of Chilisin's lowest profile surface mount inductors
- Wire wound ferrite design supports lower Rdc, higher current ratings and exceptional Q values
- Inductance values from 0.12 to 39uH

Applications

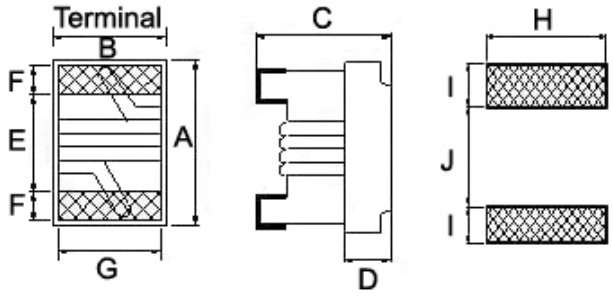
- Boost IC for tiny panels of C-STN, TFT-LCD and OLED in backlight
- Buck/Boost IC using in DC to DC converter
- LC filter in power as well as signal lines

Product Identification



Shape and Dimensions / Recommended Pattern

LT0805/1210



Dimensions in mm

TYPE	A Max	B Max	C Max	D Ref	E	F	G	H	I	J
LT0805	2.40	1.85	1.05	0.70	1.02	0.50	1.27	1.78	1.02	0.76
LT1210	3.75	3.10	1.05	0.65	1.80	0.65	2.35	2.70	1.00	2.00

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	SRF (MHz) Min	Rdc (Ω)Max	Idc (mA) Max	Color
LT0805-R12□-N	0.12	25.2	10 / 5	22	1500	0.33	1200	Black
LT0805-R15□-N	0.15	25.2	10 / 5	22	1100	0.33	1200	Brown
LT0805-R18□-N	0.18	25.2	10 / 5	22	1100	0.36	1100	Red
LT0805-R22□-N	0.22	25.2	10 / 5	22	1100	0.39	1100	Orange
LT0805-R27□-N	0.27	25.2	10 / 5	22	950	0.43	1050	Yellow
LT0805-R33□-N	0.33	25.2	10 / 5	22	650	0.46	900	Green
LT0805-R39□-N	0.39	25.2	10 / 5	22	640	0.48	850	Blue
LT0805-R47□-N	0.47	25.2	10 / 5	22	570	0.65	800	Violet
LT0805-R56□-N	0.56	25.2	10 / 5	22	540	0.67	770	Gray
LT0805-R68□-N	0.68	25.2	10 / 5	22	500	0.73	750	White
LT0805-R82□-N	0.82	25.2	10 / 5	22	480	0.85	730	Black
LT0805-1R0□-N	1.0	7.96	10 / 5	15	470	0.87	720	Brown
LT0805-1R2□-N	1.2	7.96	10 / 5	15	450	0.97	690	Red
LT0805-1R5□-N	1.5	7.96	10 / 5	15	400	1.10	670	Orange
LT0805-1R8□-N	1.8	7.96	10 / 5	15	340	1.15	650	Yellow
LT0805-2R2□-N	2.2	7.96	10 / 5	15	265	1.28	630	Green
LT0805-2R7□-N	2.7	7.96	10 / 5	15	235	1.40	620	Blue
LT0805-3R3□-N	3.3	7.96	10 / 5	15	190	1.62	580	Violet
LT0805-3R9□-N	3.9	7.96	10 / 5	15	180	1.75	570	Gray
LT0805-4R7□-N	4.7	7.96	10 / 5	13	160	1.95	550	White
LT0805-5R6□-N	5.6	7.96	10 / 5	15	120	2.14	540	Black
LT0805-6R8□-N	6.8	7.96	10 / 5	15	45	2.28	520	Brown
LT0805-8R2□-N	8.2	7.96	10 / 5	15	42	2.55	500	Red
LT0805-100□-N	10	2.52	10 / 5	10	38	2.70	450	Orange
LT0805-120□-N	12	2.52	10 / 5	10	33	4.20	400	Yellow
LT0805-150□-N	15	2.52	10 / 5	10	30	4.80	380	Green
LT0805-180□-N	18	2.52	10 / 5	10	25	5.74	300	Blue
LT0805-220□-N	22	2.52	10 / 5	10	23	7.75	260	Violet
LT0805-270□-N	27	2.52	10 / 5	10	21	10.0	230	Gray
LT0805-330□-N	33	2.52	10 / 5	10	16	13.5	200	White
LT0805-390□-N	39	2.52	10 / 5	10	15	16.0	190	Black

- When ordering, please specify tolerance and packaging codes.
- Tolerance： J =±5% , K = ±10%
- L , Q : Agilent E4991A + Agilent HP16197A
- SRF : Agilent E4991A
- Rdc :CH502BC/ HP4338B
- Idc for Inductance drop 10% from its value without current.
- Operating temperature range from -25℃ to 105℃. (Including self - temperature rise)

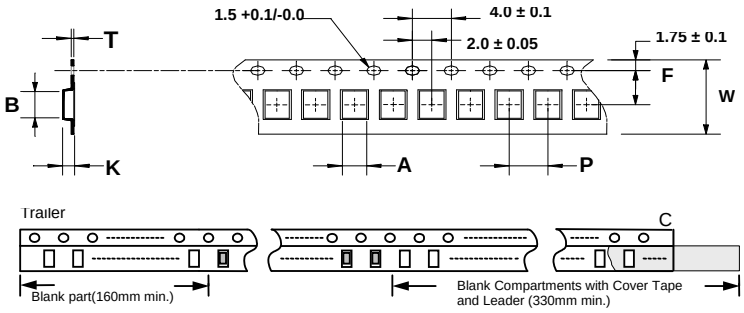
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	Q Typ.	SRF (MHz) Min	Rdc (Ω) Max	Idc (mA) Max	Color Coding 1ST	2ND	3RD
LT1210-1R0□-N	1.0	7.96	10 / 5	20	350	0.45	1500	Brown	Black	Red
LT1210-1R2□-N	1.2	7.96	10 / 5	20	330	0.49	1300	Brown	Red	Red
LT1210-1R5□-N	1.5	7.96	10 / 5	20	310	0.68	1200	Brown	Green	Red
LT1210-1R8□-N	1.8	7.96	10 / 5	20	290	0.72	1150	Brown	Gray	Red
LT1210-2R2□-N	2.2	7.96	10 / 5	20	270	1.02	1020	Red	Red	Red
LT1210-2R7□-N	2.7	7.96	10 / 5	20	265	1.15	1000	Red	Violet	Red
LT1210-3R3□-N	3.3	7.96	10 / 5	20	195	1.20	970	Orange	Orange	Red
LT1210-3R9□-N	3.9	7.96	10 / 5	20	170	1.35	910	Orange	White	Red
LT1210-4R7□-N	4.7	7.96	10 / 5	20	155	1.48	880	Yellow	Violet	Red
LT1210-5R6□-N	5.6	7.96	10 / 5	20	125	1.65	820	Green	Blue	Red
LT1210-6R8□-N	6.8	7.96	10 / 5	20	110	1.68	750	Blue	Gray	Red
LT1210-8R2□-N	8.2	7.96	10 / 5	20	100	1.88	700	Gray	Red	Red
LT1210-100□-N	10	2.52	10 / 5	16	85	2.90	610	Brown	Black	Orange
LT1210-120□-N	12	2.52	10 / 5	16	70	3.05	540	Brown	Red	Orange
LT1210-150□-N	15	2.52	10 / 5	16	65	3.45	500	Brown	Green	Orange
LT1210-180□-N	18	2.52	10 / 5	16	55	4.79	420	Brown	Gray	Orange
LT1210-220□-N	22	2.52	10 / 5	16	50	5.20	350	Red	Red	Orange

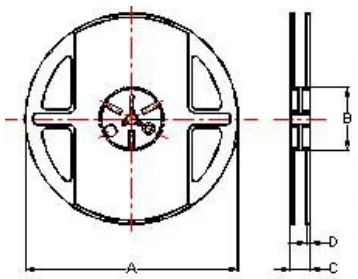
- When ordering, please specify tolerance and packaging codes.
- Tolerance： J =±5% , K = ±10%
- L , Q : Agilent E4991A + Agilent HP16197A
- SRF : Agilent E4991A
- Rdc : CH502BC/ HP4338B
- Idc for Inductance drop 10% from its value without current.
- Operating temperature range from -25℃ to 105℃. (Including self - temperature rise)

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
LT0805	1.85	2.45	0.23	8	4	3.5	1.0	178	60	12	1.5	2000
LT1210	3.05	3.70	0.25	12	4	5.5	1.1	178	60	12	1.5	2000

SQV Series

SQV Series comes in 2 sizes with wide inductance range, high Q value at high frequencies and low DC resistance.

Features

- RoHS compliant
- Miniature chip inductors wound on a special ferrite core
- High Q value at high frequencies and low DC resistance
- Wide inductance range
- Excellent solder heat resistance
- Both flow and reflow soldering methods can be employed

Applications

- Personal, cordless phone
- High Freq. communication products
- GPS (global position system)
- Personal computers

Product Identification

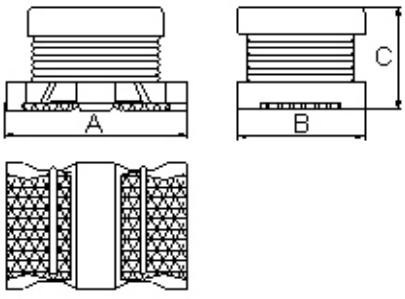
SQV□□□□□□ □ - □□□ □ - □

- CEC Internal No.
- Tolerance
- Inductance
- Packaging Style
- Dimensions code
- Product Symbol

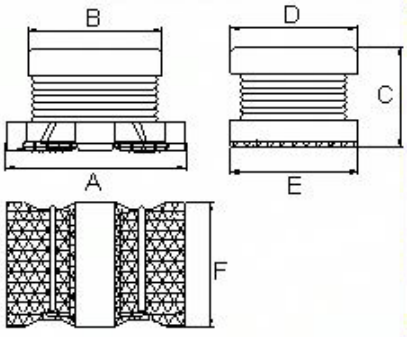
- Packaging: T：Tape and Reel

Shape and Dimensions

SQV322520



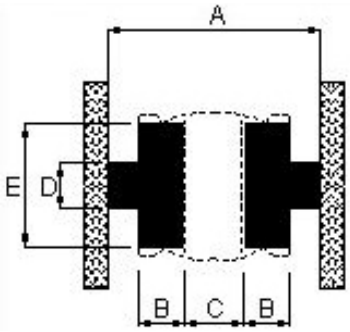
SQV453226



Dimensions in mm

TYPE	A	B	C	D	E	F
SQV322520	3.2±0.3	2.5±0.2	2.0±0.2	-	-	-
SQV453226	4.5±0.3	3.6±0.2	2.6±0.2	3.2±0.2	3.2±0.2	3.2±0.2

Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E
SQV322520	5.5	1.0	1.3	1.0	2.0
SQV453226	7.5	1.5	1.5	1.5	3.0

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	D.C. Resistance (Ω) Max	SRF (MHz) Min	Rated current (mA)
SQV322520T-R10□-N	0.10	1	20	20	25.2	0.025	200	700
SQV322520T-R18□-N	0.18	1	20	20	25.2	0.25	200	650
SQV322520T-R27□-N	0.27	1	20	25	25.2	0.25	200	600
SQV322520T-R39□-N	0.39	1	20	25	25.2	0.25	200	530
SQV322520T-R56□-N	0.56	1	20	30	25.2	0.25	160	530
SQV322520T-R68□-N	0.68	1	20	30	25.2	0.25	160	470
SQV322520T-R82□-N	0.82	1	20	30	25.2	0.25	120	450
SQV322520T-1R0□-N	1.0	1	20	20	1	0.50	100	445
SQV322520T-1R2□-N	1.2	1	20	20	1	0.60	100	425
SQV322520T-1R5□-N	1.5	1	20 / 10	20	1	0.60	75	400
SQV322520T-1R8□-N	1.8	1	20 / 10	20	1	0.70	60	390
SQV322520T-2R2□-N	2.2	1	20 / 10	20	1	0.80	50	370
SQV322520T-2R7□-N	2.7	1	20 / 10	20	1	0.90	43	320
SQV322520T-3R3□-N	3.3	1	20 / 10	20	1	1.0	38	300
SQV322520T-3R9□-N	3.9	1	20 / 10	20	1	1.1	35	290
SQV322520T-4R7□-N	4.7	1	20 / 10	20	1	1.2	31	270
SQV322520T-5R6□-N	5.6	1	20 / 10	20	1	1.3	28	250
SQV322520T-6R8□-N	6.8	1	20 / 10	20	1	1.5	25	240
SQV322520T-8R2□-N	8.2	1	20 / 10	20	1	1.6	23	225
SQV322520T-100□-N	10	1	10 / 5	35	1	1.8	20	190
SQV322520T-120□-N	12	1	10 / 5	35	1	2.0	18	180
SQV322520T-150□-N	15	1	10 / 5	35	1	2.2	16	170
SQV322520T-180□-N	18	1	10 / 5	35	1	2.5	15	165
SQV322520T-220□-N	22	1	10 / 5	35	1	2.8	14	150
SQV322520T-270□-N	27	1	10 / 5	35	1	3.1	13	125
SQV322520T-330□-N	33	1	10 / 5	40	1	3.5	12	115
SQV322520T-390□-N	39	1	10 / 5	40	1	3.9	11	110
SQV322520T-470□-N	47	1	10 / 5	40	1	4.3	11	100
SQV322520T-560□-N	56	1	10 / 5	40	1	4.9	10.0	85
SQV322520T-680□-N	68	1	10 / 5	40	1	5.5	9.0	80
SQV322520T-820□-N	82	1	10 / 5	40	1	6.2	8.5	70
SQV322520T-101□-N	100	1	10 / 5	40	0.796	7.0	8.0	80
SQV322520T-121□-N	120	1	10 / 5	40	0.796	8.0	7.5	75
SQV322520T-151□-N	150	1	10 / 5	40	0.796	9.3	7.0	70
SQV322520T-181□-N	180	1	10 / 5	40	0.796	10.2	6.0	65
SQV322520T-221□-N	220	1	10 / 5	40	0.796	11.8	5.5	65
SQV322520T-271□-N	270	1	10 / 5	40	0.796	12.5	5.0	65
SQV322520T-331□-N	330	1	10 / 5	40	0.796	13.0	5.0	65
SQV322520T-391□-N	390	1	10 / 5	50	0.796	22.0	5.0	50
SQV322520T-471□-N	470	0.001	10 / 5	50	0.796	25.0	5.0	45
SQV322520T-561□-N	560	0.001	10 / 5	50	0.796	28.0	2.0	40

- When ordering, please specify tolerance and packaging codes.
- Rated Current: Self temperature rise shall be limited to 35℃ Max. Inductance drop 10% typ.
- Operating temp: -40℃ ~ 125℃. (Including self - temperature rise)
- Soldering Heat: 260℃ 10 sec after 150℃ preheat cycle for 4 min.
- Tolerance: J = ±5% , K = ±10% , M = ±20%
- Test Equipment: L & Q: HP4192A. LF Impedance Analyzer
  SRF: HP4291A RF Impedance Analyzer
  DCR: CH502BC/ HP4338B

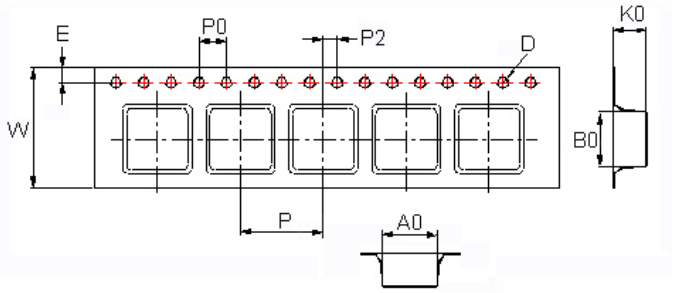
Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	D.C. Resistance (Ω) Max	SRF (MHz) Min	Rated current (mA)
SQV453226T-1R0□-N	1.0	1	20	20	1	0.20	120	500
SQV453226T-1R2□-N	1.2	1	20	20	1	0.20	100	500
SQV453226T-1R5□-N	1.5	1	20	20	1	0.30	85	500
SQV453226T-1R8□-N	1.8	1	20	20	1	0.30	75	500
SQV453226T-2R2□-N	2.2	1	20	20	1	0.30	62	500
SQV453226T-2R7□-N	2.7	1	20	20	1	0.32	53	500
SQV453226T-3R3□-N	3.3	1	20	20	1	0.35	47	500
SQV453226T-3R9□-N	3.9	1	20	20	1	0.38	41	500
SQV453226T-4R7□-N	4.7	1	20 / 10	30	1	0.40	38	500
SQV453226T-5R6□-N	5.6	1	20 / 10	30	1	0.47	33	500
SQV453226T-6R8□-N	6.8	1	20 / 10	30	1	0.50	31	450
SQV453226T-8R2□-N	8.2	1	20 / 10	30	1	0.56	27	450
SQV453226T-100□-N	10	1	10 / 5	35	1	0.56	23	400
SQV453226T-120□-N	12	1	10 / 5	35	1	0.62	21	380
SQV453226T-150□-N	15	1	10 / 5	35	1	0.73	19	360
SQV453226T-180□-N	18	1	10 / 5	35	1	0.82	17	340
SQV453226T-220□-N	22	1	10 / 5	35	1	0.94	15	320
SQV453226T-270□-N	27	1	10 / 5	35	1	1.1	14	300
SQV453226T-330□-N	33	1	10 / 5	35	1	1.2	12	270
SQV453226T-390□-N	39	1	10 / 5	35	1	1.4	11	240
SQV453226T-470□-N	47	1	10 / 5	35	1	1.5	10	220
SQV453226T-560□-N	56	1	10 / 5	35	1	1.7	9.3	200
SQV453226T-680□-N	68	1	10 / 5	35	1	1.9	8.4	180
SQV453226T-820□-N	82	1	10 / 5	35	1	2.2	7.5	170
SQV453226T-101□-N	100	1	10 / 5	40	0.796	2.5	6.8	160
SQV453226T-121□-N	120	1	10 / 5	40	0.796	3.0	6.2	150
SQV453226T-151□-N	150	1	10 / 5	40	0.796	3.7	5.5	130
SQV453226T-181□-N	180	1	10 / 5	40	0.796	4.5	5.0	120
SQV453226T-221□-N	220	1	10 / 5	40	0.796	5.4	4.5	110
SQV453226T-271□-N	270	1	10 / 5	40	0.796	6.8	4.0	100
SQV453226T-331□-N	330	1	10 / 5	40	0.796	8.2	3.6	95
SQV453226T-391□-N	390	1	10 / 5	40	0.796	9.7	3.3	90
SQV453226T-471□-N	470	0.001	10 / 5	40	0.796	11.8	3.0	80
SQV453226T-561□-N	560	0.001	10 / 5	40	0.796	14.5	2.7	70
SQV453226T-681□-N	680	0.001	10 / 5	40	0.796	17.5	2.5	65
SQV453226T-821□-N	820	0.001	10 / 5	40	0.796	20.5	2.2	60
SQV453226T-102□-N	1000	0.001	10 / 5	40	0.252	25.0	2.0	50
SQV453226T-122□-N	1200	0.001	10 / 5	40	0.252	30.0	1.8	45
SQV453226T-152□-N	1500	0.001	10 / 5	40	0.252	37.0	1.6	40
SQV453226T-182□-N	1800	0.001	10 / 5	40	0.252	45.0	1.5	35
SQV453226T-222□-N	2200	0.001	10 / 5	40	0.252	50.0	1.3	30

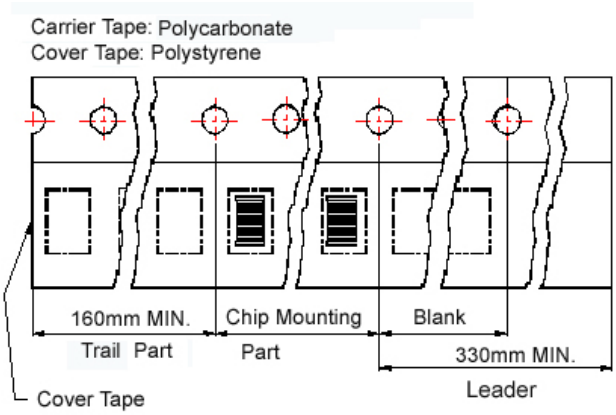
- When ordering, please specify tolerance and packaging codes.
- Rated Current: Self temperature rise shall be limited to 35℃ Max. Inductance drop 10% typ.
- Operating temp: -40℃ ~ 125℃. (Including self - temperature rise)
- Soldering Heat: 260℃ 10 sec after 150℃ preheat cycle for 4 min.
- Inductance tolerance: J = ±5% K = ±10% M = ±20%
- Test Equipment: L & Q: HP4192A. LF Impedance Analyzer
  SRF: HP4291A RF Impedance Analyzer
  DCR: CH502BC/ HP4338B

Packaging Specifications

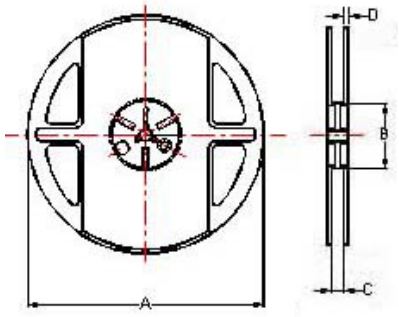
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
SQV322520	2.90	3.60	2.25	1.5	1.75	8	4	4	2	178	60	9	1.5	2000
SQV453226	3.60	4.90	3.00	1.5	1.75	12	8	4	2	178	60	13.2	1.5	500

SQC Series

The SQC Series is a type of miniature wire-wound chip inductor designed on a special ferrite core. They are excellent for use in DC power supply circuits.

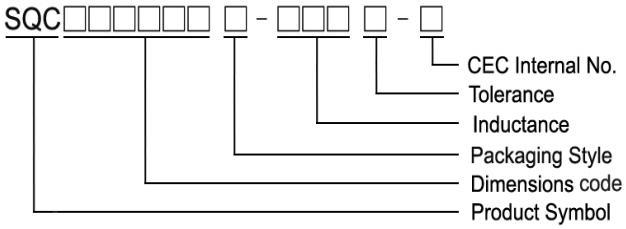
Features

- RoHS compliant
- Low DC resistance, high current capacity, and high impedance characteristics
- Excellent solder heat resistance
- Both flow and reflow soldering methods can be employed
- Available in 4 sizes

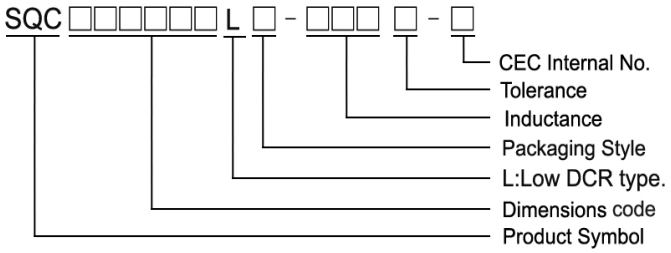
Applications

- Personal computers
- Disk drives and computer peripherals
- Pagers, cordless phone
- DC power supply circuit

Product Identification



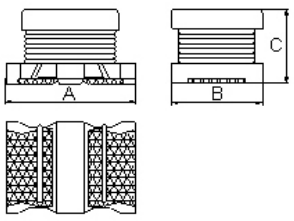
- Packaging: T：Tape and Reel



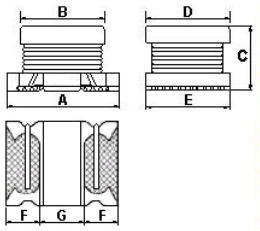
- Packaging: T：Tape and Reel

Shape and Dimensions

SQC321618 & SQC322520& SQC322520LT



SQC322517 & SQC322517HP



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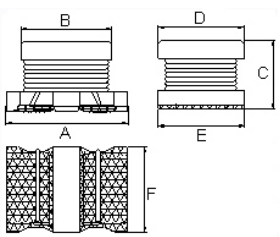
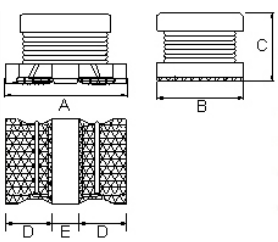


SQC575047



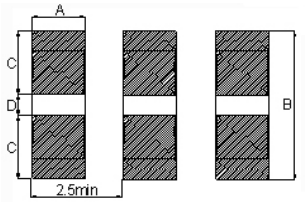
CHILISIN ELECTRONICS CORP.

Dimensions in mm

TYPE	A	B	C	D	E	F	G
SQC321618	3.2 ± 0.3	1.6 ± 0.2	1.8 ± 0.2	-	-	-	-
SQC322517	3.2 ± 0.3	2.5 ± 0.2	1.55± 0.15	2.5 ± 0.2	2.5 ± 0.2	0.9 ± 0.3	1.3 ± 0.2
SQC322517HP	3.2 ± 0.3	2.5 ± 0.2	1.55± 0.15	2.5 ± 0.2	2.5 ± 0.2	0.9 ± 0.3	1.3 ± 0.2
SQC322520	3.2 ± 0.3	2.5 ± 0.2	2.0 ± 0.2	-	-	-	-
SQC322520LT	3.2 ± 0.3	2.5 ± 0.2	2.0 ± 0.2	-	-	-	-
SQC453226	4.5 ± 0.3	3.6 ± 0.2	2.6 ± 0.2	3.2 ± 0.2	3.2 ± 0.2	3.2 ± 0.2	-
SQC575047	5.7 ± 0.3	5.0 ± 0.3	4.7 ± 0.3	1.3 Min	1.7 Min	-	-

Recommended Pattern

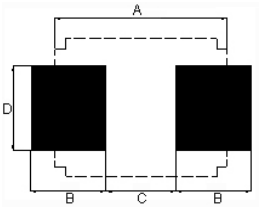
SQC321618



Dimensions in mm

TYPE	A	B	C	D
SQC321618	1.5	4.5	1.75	1.0

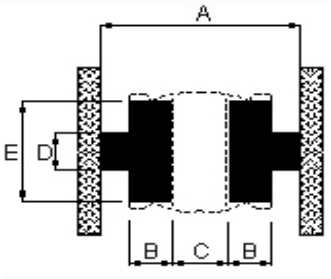
SQC575047



Dimensions in mm

TYPE	A	B	C	D
SQC575047	8.0	3.0	2.0	3.5

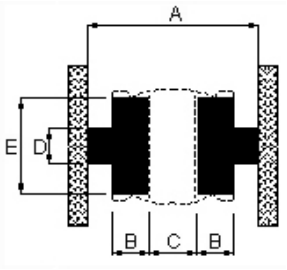
SQC322517 & SQC322517HP



Dimensions in mm

TYPE	A	B	C	D	E
SQC322517	5.5	1.0	1.3	1.0	2.0
SQC322517HP	5.5	1.0	1.3	1.0	2.0

SQC322520 & SQC322520LT & SQC453226



Dimensions in mm

TYPE	A	B	C	D	E
SQC322520	5.5	1.0	1.3	1.0	2.0
SQC322520LT	5.5	1.0	1.3	1.0	2.0
SQC453226	7.5	1.5	1.5	1.5	3.0

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	D.C. Resistance (Ω) Max	SRF (MHz) Min	Rated current (mA)
SQC321618T-R12□-N	0.12	20	1	0.112	250	970
SQC321618T-R22□-N	0.22	20	1	0.140	250	850
SQC321618T-R47□-N	0.47	20	1	0.210	180	700
SQC321618T-1R0□-N	1.0	20	1	0.364	100	510
SQC321618T-2R2□-N	2.2	20	1	0.533	50	430
SQC321618T-4R7□-N	4.7	20 / 10	1	0.845	31	340
SQC321618T-100□-N	10	10 / 5	1	1.690	20	230
SQC321618T-220□-N	22	10 / 5	1	3.900	14	160
SQC321618T-470□-N	47	10 / 5	1	10.40	10	100
SQC321618T-101□-N	100	10 / 5	1	15.60	7	80

- When ordering, please specify tolerance and packaging codes
- Rated Current: Self temperature rise shall be limited to 35℃ Max. Inductance drop 10% typ.
- Tolerance : J = ±5% , K = ±10% , M = ±20%
- Operating temp: －２５℃～１２５℃ (Including self - temperature rise)
- Soldering Heat: 260℃ 10 seconds after 150℃ preheat cycle for 4 minutes
- Test Equipment: L: HP4192A. LF Impedance Analyzer
  SRF: HP4291A RF Impedance Analyzer
  DCR: CH502BC

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	D.C. Resistance (Ω±30%)	SRF (MHz) Min	Rated current (mA)
SQC322517T-2R2□-N	2.2	20	1	0.097	64	790
SQC322517T-3R3□-N	3.3	20	1	0.12	50	710
SQC322517T-6R8□-N	6.8	20	1	0.25	32	540
SQC322517T-100□-N	10	10,20	1	0.30	26	350
SQC322517T-220□-N	22	10,20	1	0.71	19	250
SQC322517T-101□-N	100	10,20	1	3.50	10	100

- When ordering, please specify tolerance and packaging codes
- Rated Current: Inductance drop 10% typ.
- Tolerance : K = ±10% , M = ±20%
- Operating temp: －２５℃～１２５℃ (Including self - temperature rise)
- Soldering Heat: 260℃ 10 seconds after 150℃ preheat cycle for 4 minutes
- Test Equipment: L: HP4284A
  SRF: HP4287A
  DCR: CH502BC

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	D.C. Resistance (Ω±20%)	SRF (MHz) Min	Rated current (mA)	Irms (mA)
SQC322517HP-R47□-N	0.47	30	1	0.030	100	3400	2550
SQC322517HP-1R0□-N	1.0	30	1	0.045	100	2300	2050
SQC322517HP-1R5□-N	1.5	30	1	0.057	70	1750	1750
SQC322517HP-2R2□-N	2.2	30	1	0.076	70	1550	1600
SQC322517HP-3R3□-N	3.3	30	1	0.120	50	1250	1200
SQC322517HP-4R7□-N	4.7	30	1	0.180	40	1000	1000
SQC322517HP-6R8□-N	6.8	30	1	0.240	40	850	850
SQC322517HP-100□-N	10	30	1	0.380	30	750	700
SQC322517HP-220□-N	22	30	1	0.810	20	500	450

- When ordering, please specify tolerance and packaging codes
- Rated Current: Self temperature rise shall be limited to 40℃ Max. Inductance drop 30% typ.
- Tolerance : T = ±30%
- Operating temp: －２５℃～１２５℃ (Including self - temperature rise)
- Soldering Heat: 260℃ 10 seconds after 150℃ preheat cycle for 4 minutes
- Test Equipment: L: HP4284A
  SRF: HP4291A RF Impedance Analyzer
  DCR: CH502BC

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	D.C. Resistance (Ω±30%)	SRF (MHz) Min	Rated current (mA)
SQC322520T-1R0□-N	1.0	20	1	0.09	96	1000
SQC322520T-2R2□-N	2.2	20	1	0.13	64	600
SQC322520T4R7□-N	4.7	20	1	0.20	43	450
SQC322520T-100□-N	10	20	1	0.44	26	300
SQC322520T-220□-N	22	20 / 10	1	0.71	19	250
SQC322520T-470□-N	47	20 / 10	1	1.30	15	170
SQC322520T-101□-N	100	20 / 10	1	3.50	10	100
SQC322520T-221□-N	220	20 / 10	1	8.40	6.8	70
SQC322520T-331□-N	330	20 / 10	1	10.0	5.6	60
SQC322520T-391□-N	390	20 / 10	1	17.0	5.0	60
SQC322520T-471□-N	470	20 / 10	0.001	19.0	5.0	60
SQC322520T-561□-N	560	20 / 10	0.001	22.0	5.0	60

- When ordering, please specify tolerance and packaging codes
- Rated Current: Self temperature rise shall be limited to 35℃ Max. Inductance drop 10% typ.
- Tolerance : K = ±10% , M = ±20%
- Operating temp: －２５℃～１２５℃ (Including self - temperature rise)
- Soldering Heat: 260℃ 10 seconds after 150℃ preheat cycle for 4 minutes
- Test Equipment: L: HP4192A. LF Impedance Analyzer
  SRF: HP4291A RF Impedance Analyzer
  DCR: CH502BC

Electrical Characteristics (LOW DCR Type)

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	D.C. Resistance (Ω±30%)	SRF (MHz) Min	Rated current (mA)
SQC322520LT-R15□-N	0.15	20	1	0.028	400	1450
SQC322520LT-R27□-N	0.27	20	1	0.034	250	1250
SQC322520LT-R47□-N	0.47	20	1	0.042	150	1100
SQC322520LT-1R0□-N	1.0	20	1	0.060	100	1000
SQC322520LT-2R2□-N	2.2	20	1	0.097	64	790
SQC322520LT-4R7□-N	4.7	20	1	0.15	43	650
SQC322520LT-100□-N	10	20 / 10	1	0.30	26	450

- When ordering, please specify tolerance and packaging codes
- Rated Current: Self temperature rise shall be limited to 35℃ Max. Inductance drop 10% typ.
- Tolerance : K = ±10% , M = ±20%
- Operating temp: －２５℃～１２５℃ (Including self - temperature rise)
- Soldering Heat: 260℃ 10 seconds after 150℃ preheat cycle for 4 minutes
- Test Equipment: L: HP4192A. LF Impedance Analyzer
  SRF: HP4291A RF Impedance Analyzer
  DCR: CH502BC

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	D.C. Resistance (Ω) Max	SRF (MHz) Min	Rated current (mA)
SQC453226T-1R0□-N	1.0	20	1	0.08	100	1080
SQC453226T-1R5□-N	1.5	20	1	0.09	85	1000
SQC453226T-2R2□-N	2.2	20	1	0.11	60	900
SQC453226T-3R3□-N	3.3	20	1	0.13	47	800
SQC453226T-4R7□-N	4.7	10 / 20	1	0.15	35	750
SQC453226T-6R8□-N	6.8	10 / 20	1	0.20	30	720
SQC453226T-100□-N	10	5 / 10	1	0.24	23	650
SQC453226T-150□-N	15	5 / 10	1	0.32	20	570
SQC453226T-220□-N	22	5 / 10	1	0.60	15	420
SQC453226T-330□-N	33	5 / 10	1	1.0	12	310
SQC453226T-470□-N	47	5 / 10	1	1.1	10	280
SQC453226T-680□-N	68	5 / 10	1	1.7	8.4	220
SQC453226T-101□-N	100	5 / 10	1	2.2	6.8	190
SQC453226T-151□-N	150	5 / 10	1	3.5	5.5	130
SQC453226T-221□-N	220	5 / 10	1	4.0	4.5	110
SQC453226T-331□-N	330	5 / 10	1	6.8	3.6	100
SQC453226T-471□-N	470	5 / 10	0.001	8.5	3.0	90

- When ordering, please specify tolerance and packaging codes
- Rated Current: Self temperature rise shall be limited to 35℃ Max. Inductance drop 10% typ.
- Tolerance : J = ±5% , K = ±10% , M = ±20%
- Operating temp: －２５℃～１２５℃ (Including self - temperature rise)
- Soldering Heat: 260℃ 10 seconds after 150℃ preheat cycle for 4 minutes
- Test Equipment: L: HP4192A. LF Impedance Analyzer
  SRF: HP4291A RF Impedance Analyzer
  DCR: CH502BC

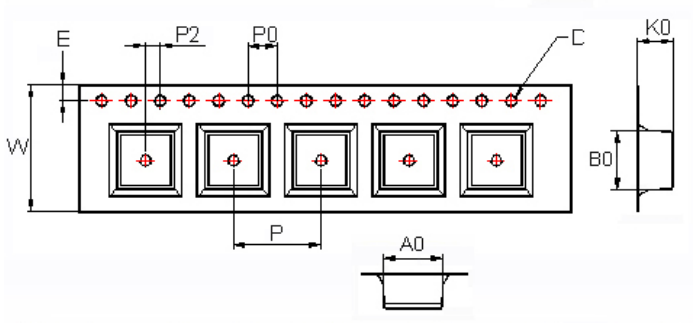
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	D.C. Resistance (Ω) Max	SRF (MHz) Min	Rated current (mA)
SQC575047T-R12□-N	0.12	20	1	0.0098	450	6000
SQC575047T-R27□-N	0.27	20	1	0.0140	300	5300
SQC575047T-R47□-N	0.47	20	1	0.0182	200	4800
SQC575047T-1R0□-N	1.0	20	1	0.0270	150	4000
SQC575047T-1R5□-N	1.5	20	1	0.0310	110	3700
SQC575047T-2R2□-N	2.2	20	1	0.0410	80	3200
SQC575047T-3R3□-N	3.3	20	1	0.0500	40	2900
SQC575047T-4R7□-N	4.7	20	1	0.0574	30	2700
SQC575047T-6R8□-N	6.8	20	1	0.1040	25	2000
SQC575047T-100□-N	10	10 / 20	1	0.1300	20	1700
SQC575047T-150□-N	15	10 / 20	1	0.210	17	1400
SQC575047T-220□-N	22	10 / 20	1	0.266	15	1200
SQC575047T-330□-N	33	10 / 20	1	0.448	12	900
SQC575047T-470□-N	47	10 / 20	1	0.560	10	800
SQC575047T-680□-N	68	10 / 20	1	0.938	7.6	640
SQC575047T-101□-N	100	10 / 20	0.1	1.204	6.5	560
SQC575047T-151□-N	150	10 / 20	0.1	2.660	5.0	420
SQC575047T-221□-N	220	10 / 20	0.1	3.360	4.0	320
SQC575047T-331□-N	330	10 / 20	0.1	6.160	3.1	270
SQC575047T-471□-N	470	10 / 20	0.1	7.560	2.4	240
SQC575047T-681□-N	680	10 / 20	0.1	11.34	1.9	190
SQC575047T-102□-N	1000	10 / 20	0.01	14.42	1.7	150
SQC575047T-222□-N	2200	10 / 20	0.01	30.10	1.2	100
SQC575047T-472□-N	4700	10 / 20	0.01	61.04	0.8	70
SQC575047T-103□-N	10000	10 / 20	0.01	140.0	0.5	50

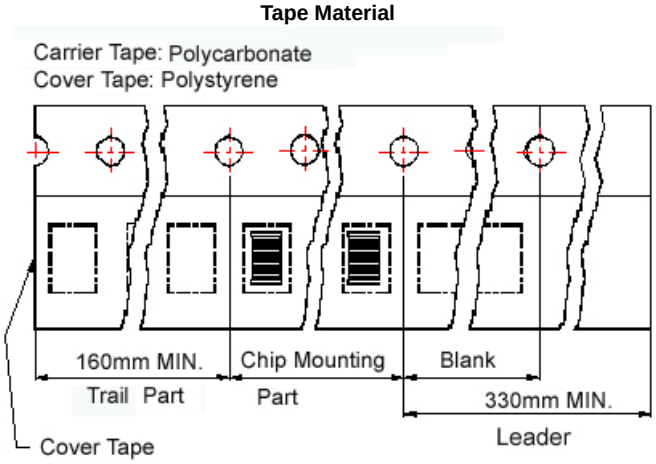
- When ordering, please specify tolerance and packaging codes
- Rated Current: Self temperature rise shall be limited to 35℃ Max. Inductance drop 10% typ.
- Tolerance : K = ±10% , M = ±20%
- Operating temp : －２５℃～１２５℃ (Including self - temperature rise)
- Soldering Heat : 260℃ 10 seconds after 150℃ preheat cycle for 4 minutes.
- Test equipment: L:HP4192. LF Impedance Analyzer
  SRF:HP4291A RF Impedance Analyzer
  DCR:CH502BC

Packaging Specifications

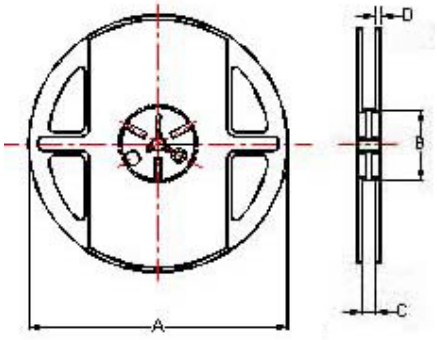
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
SQC201609	1.9	2.3	1.1	1.55	1.75	8	4	4	2	178	60	9	1.5	3000
SQC3010	3.2	3.2	1.4	1.55	1.75	8	4	4	2	178	60	9	1.5	2000
SQC321618	1.85	3.55	2.05	1.5	1.75	8	4	4	2	178	60	9	1.5	2000
SQC322517	2.85	3.56	1.80	1.55	1.75	8	4	4	2	178	60	9	1.5	2000
SQC322517HP	2.85	3.56	1.80	1.55	1.75	8	4	4	2	178	60	9	1.5	2000
SQC322520	2.90	3.60	2.25	1.5	1.75	8	4	4	2	178	60	9	1.5	2000
SQC322520LT	2.90	3.60	2.25	1.5	1.75	8	4	4	2	178	60	9	1.5	2000
SQC453226	3.60	4.90	3.00	1.5	1.75	12	8	4	2	178	60	13.2	1.5	500
SQC575047	5.4	6.0	5.5	1.5	1.75	16	12	12	2	330	100	17	1.5	1000

Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: SB, GB, PB, UPB, NB, HF, and VPB series.

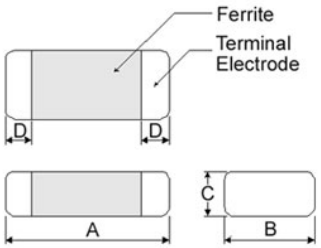
Product Identification

□□□ □□□□□□ □–□□□□–□

- CEC Internal No.
- Tolerance
- Impedance
- Packaging Style
- Dimensions(A、B、C)
- Design code
- Product Symbol

- Product symbol: SB, GB, PB, UPB, NB, HF, VPB
- Packaging: T：Tape and Reel；B：Bulk
- Tolerance: Y = ± 25%; M = ± 20%; T:±30%
- Note: RoHS Compliant

Shape and Dimensions

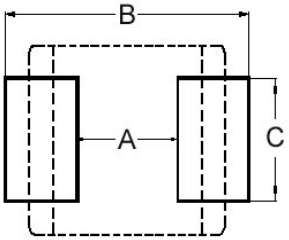


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
④201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑤201212	2.0±0.20	1.25±0.20	1.25±0.20	0.5±0.3
④321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑥321616	3.2±0.20	1.60±0.20	1.6±0.20	0.5±0.3
⑦322513	3.2±0.20	2.50±0.20	1.3±0.20	0.5±0.3
⑧451616	4.5±0.25	1.60±0.20	1.6±0.20	0.5±0.3
⑧453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

①：SB / PB / NB ②：SB / PB / NB / HF ⑦：SB / PB
③：SB / PB / NB / GB / UPB / HF / VPB ⑤：UPB ⑥：SB
④：SB / PB / NB / GB / UPB ⑧：PB / UPB

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
⑤201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
④321611	2.0	4.2 ~ 5.2	1.2
⑥321616	2.0	4.2 ~ 5.2	1.2
⑦322513	2.0	5.5 ~ 6.5	1.8
⑧451616	3.0	5.5 ~ 6.5	1.2
⑧453215	3.0	5.5 ~ 6.5	2.4

＊ Don't apply narrower pattern than listed above to PBY and UPB. Narrow pattern might cause excessive heat or open circuit.

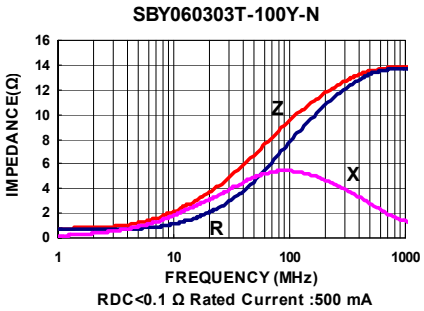
Dimension Conversion

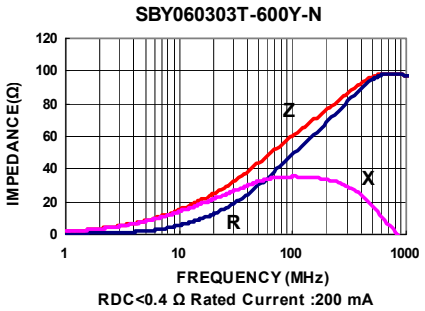
Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
201212	2.0x1.2x1.25	0805
321611	3.2x1.6x.1.1	1206
321616	3.2x1.6x1.6	1206
322513	3.2x2.5x1.3	1210
451616	4.5x1.6x1.6	1806
453215	4.5x3.2x1.5	1812

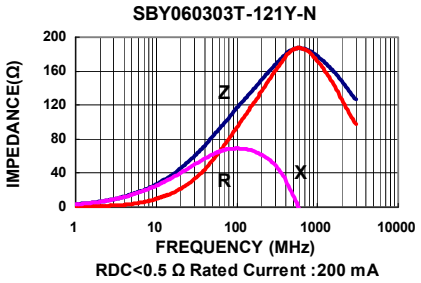
Electrical Characteristics

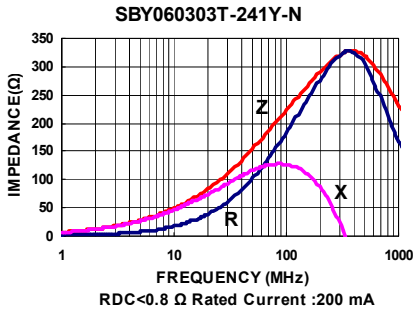
Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
SBY060303T-100Y-N	100	10±30%	0.1	500
SBY060303T-600Y-N	100	60	0.4	200
SBY060303T-121Y-N	100	120	0.5	200
SBY060303T-241Y-N	100	240	0.8	200
SBY060303T-601Y-N	100	600	1.5	100

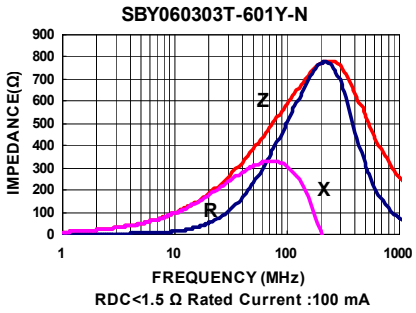
Test Instruments：Agilent E4991A Impedance / Material Analyzer









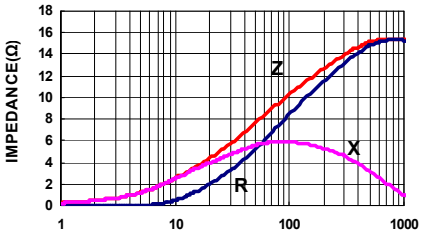


Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
SBY100505T-100Y-N	100	10±30%	0.05	500
SBY100505T-400Y-N	100	40	0.20	500
SBY100505T-600Y-N	100	60	0.20	500
SBY100505T-700Y-N	100	70	0.20	500
SBY100505T-101Y-N	100	100	0.25	500
SBY100505T-121Y-N	100	120	0.25	500
SBY100505T-221Y-N	100	220	0.40	400
SBY100505T-301Y-N	100	300	0.50	300
SBY100505T-471Y-N	100	470	0.50	300
SBY100505T-601Y-N	100	600	0.60	300
SBY100505T-102Y-N	100	1000	0.95	200
SBY100505T-182Y-N	100	1800	1.40	100
SBY100505T-222Y-N	100	2200	1.40	100

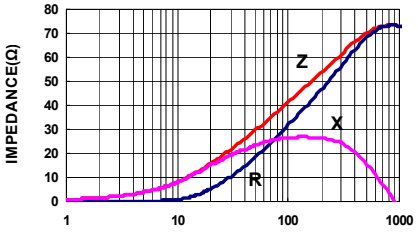
Test Instruments：Agilent E4991A Impedance / Material Analyzer

SBY100505T-100Y-N



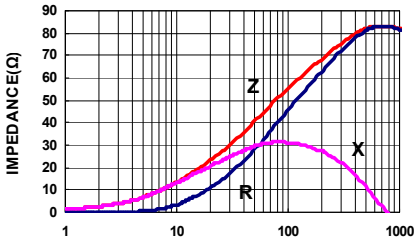
RDC<0.05 Ω Rated Current :500 mA

SBY100505T-400Y-N



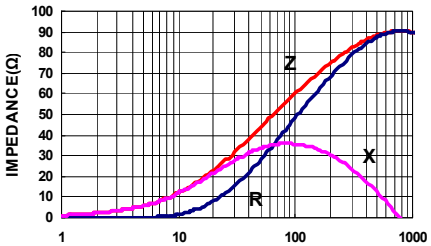
RDC<0.2 Ω Rated Current :500 mA

SBY100505T-600Y-N



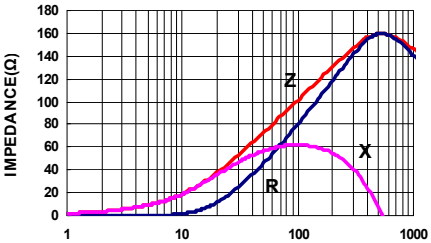
RDC<0.2 Ω Rated Current :500 mA

SBY100505T-700Y-N



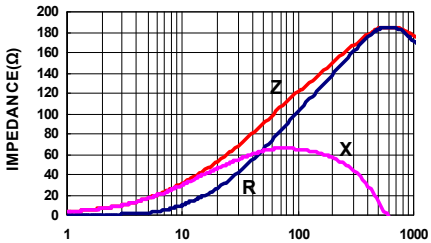
RDC<0.2 Ω Rated Current :500 mA

SBY100505T-101Y-N



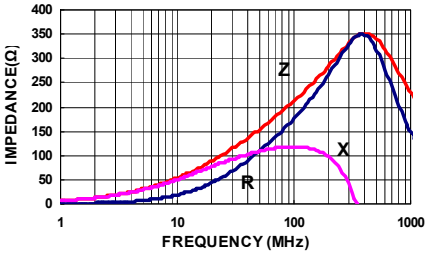
RDC<0.25 Ω Rated Current :500 mA

SBY100505T-121Y-N



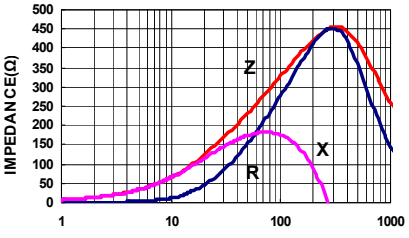
RDC<0.25 Ω Rated Current :500 mA

SBY100505T-221Y-N



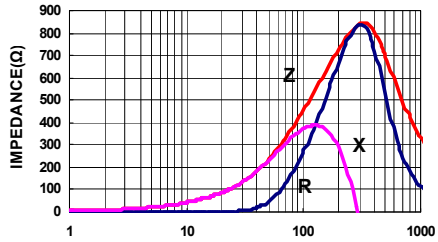
RDC<0.4Ω Rated Current :400 mA

SBY100505T-301Y-N



RDC<0.5 Ω Rated Current :300 mA

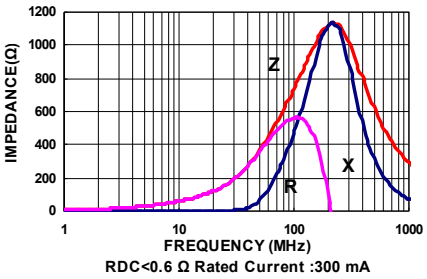
SBY100505T-471Y-N



RDC<0.5 Ω Rated Current :300 mA

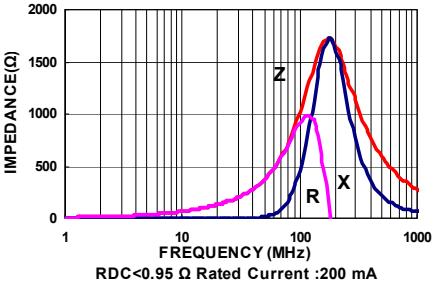
Test Instruments：Agilent E4991A Impedance / Material Analyzer

SBY100505T-601Y-N



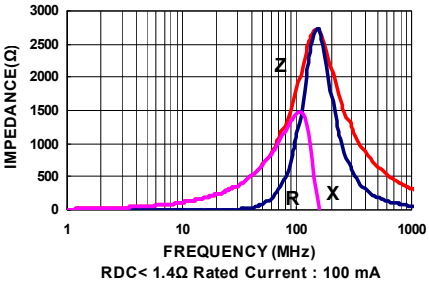
RDC<0.6 Ω Rated Current :300 mA

SBY100505T-102Y-N



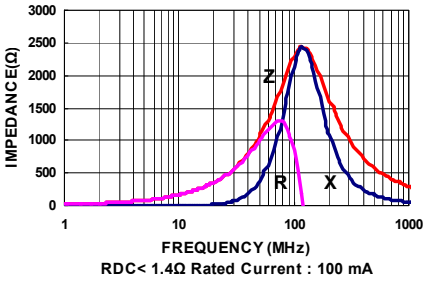
RDC<0.95 Ω Rated Current :200 mA

SBY100505T-182Y-N



RDC< 1.4Ω Rated Current : 100 mA

SBY100505T-222Y-N



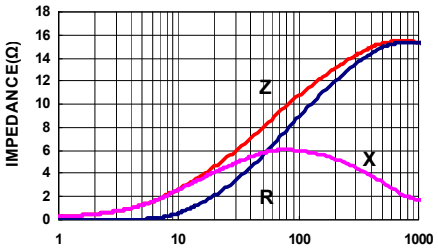
RDC< 1.4Ω Rated Current : 100 mA

Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
SBK160808T-110Y-N	100	11±30%	0.05	500
SBK160808T-300Y-N	100	30	0.10	400
SBK160808T-600Y-N	100	60	0.10	400
SBK160808T-800Y-N	100	80	0.15	400
SBK160808T-121Y-N	100	120	0.25	400
SBK160808T-221Y-N	100	220	0.30	300
SBK160808T-301Y-N	100	300	0.40	300
SBK160808T-471Y-N	100	470	0.50	300
SBK160808T-601Y-N	100	600	0.50	300
SBK160808T-751Y-N	100	750	0.60	300
SBK160808T-102Y-N	100	1000	0.60	300
SBK160808T-152Y-N	100	1500	0.60	300
SBK160808T-222Y-N	100	2200	0.80	200
SBK160808T-272Y-N	100	2700	0.80	200

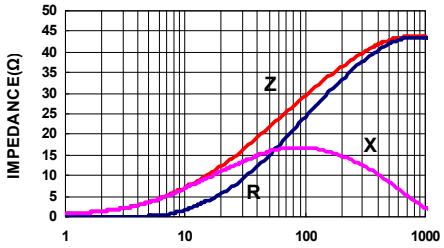
Test Instruments：Agilent E4991A Impedance / Material Analyzer

SBK160808T-110Y-N



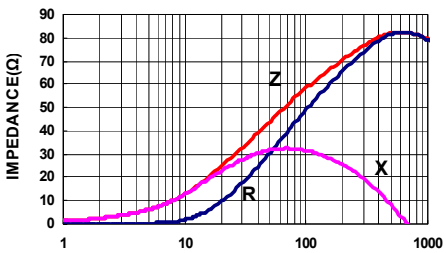
RDC<0.05 Ω Rated Current :500 mA

SBK160808T-300Y-N



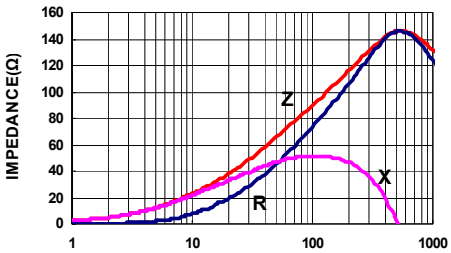
RDC<0.1 Ω Rated Current :400 mA

SBK160808T-600Y-N



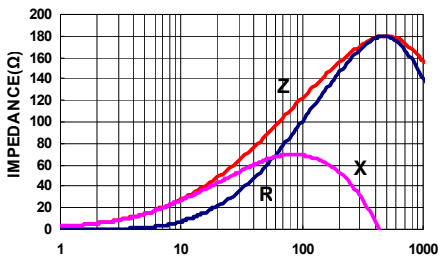
RDC<0.1 Ω Rated Current :400 mA

SBK160808T-800Y-N



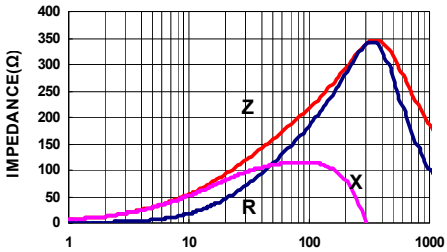
RDC<0.15 Ω Rated Current :400 mA

SBK160808T-121Y-N



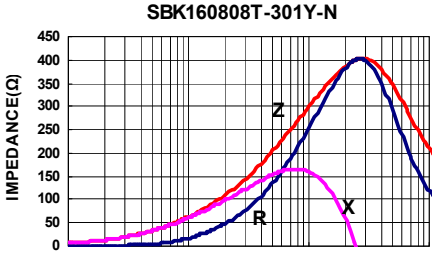
RDC<0.25 Ω Rated Current :400 mA

SBK160808T-221Y-N



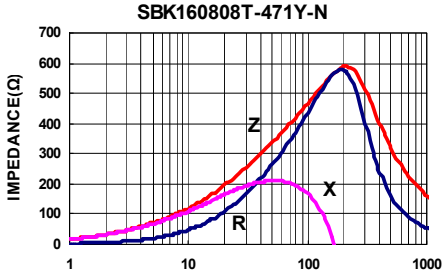
RDC<0.3 Ω Rated Current :300 mA

SBK160808T-301Y-N



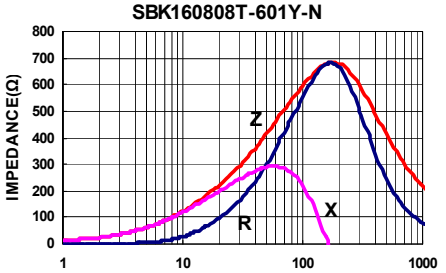
RDC<0.4 Ω Rated Current :300 mA

SBK160808T-471Y-N



RDC<0.5 Ω Rated Current :300 mA

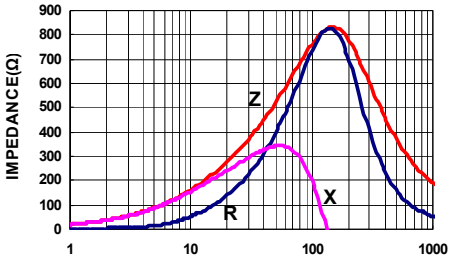
SBK160808T-601Y-N



RDC<0.5 Ω Rated Current :300 mA

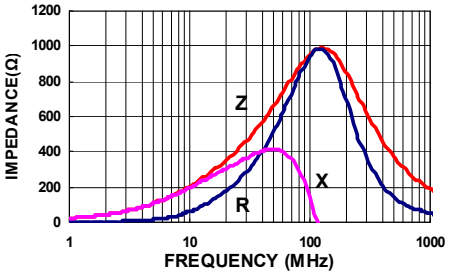
Test Instruments：Agilent E4991A Impedance / Material Analyzer

SBK160808T-751Y-N



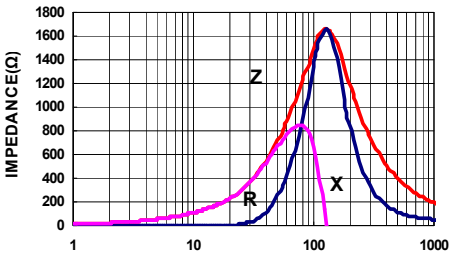
RDC<0.6 Ω Rated Current :300 mA

SBK160808T-102Y-N



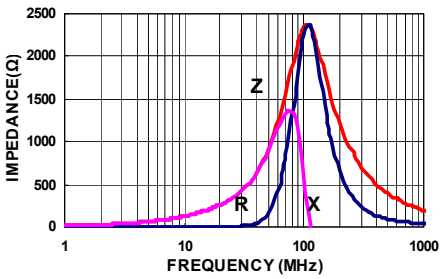
RDC<0.6 Ω Rated Current :300 mA

SBK160808T-152Y-N



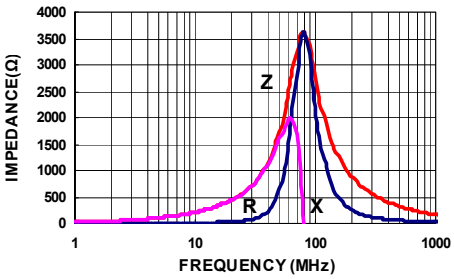
RDC<0.6 Ω Rated Current :300 mA

SBK160808T-222Y-N



RDC<0.8 Ω Rated Current :200 mA

SBK160808T-272Y-N



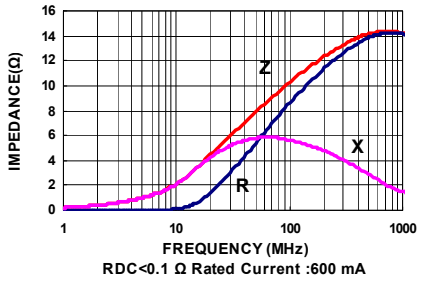
RDC<0.8 Ω Rated Current :200 mA

Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
SBY201209T-110Y-N	100	11±30%	0.10	600
SBY201209T-320Y-N	100	32	0.10	600
SBK201209T-600Y-N	100	60	0.15	500
SBK201209T-121Y-N	100	120	0.25	300
SBK201209T-151Y-N	100	150	0.25	300
SBK201209T-221Y-N	100	220	0.30	300
SBK201209T-301Y-N	100	300	0.30	300
SBK201209T-471Y-N	100	470	0.30	300
SBK201209T-601Y-N	100	600	0.40	300
SBK201209T-751Y-N	100	750	0.50	200
SBK201209T-102Y-N	100	1000	0.50	200
SBK201209T-152Y-N	100	1500	0.60	200
SBK201209T-202Y-N	100	2000	0.70	200
SBK201209T-222Y-N	100	2200	0.70	200
SBK201209T-252Y-N	100	2500	0.70	200
SBK201209T-272Y-N	100	2700	0.70	200

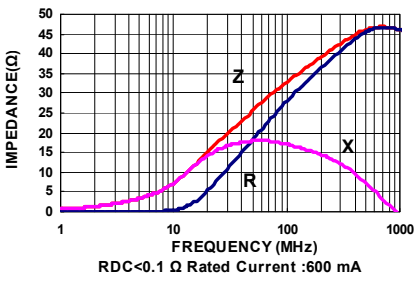
Test Instruments：Agilent E4991A Impedance / Material Analyzer

SBY201209T-110Y-N



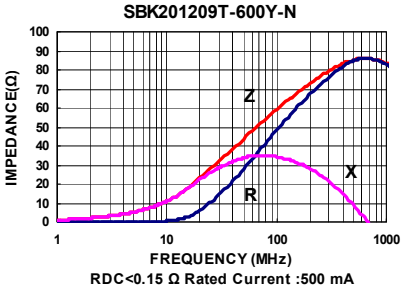
RDC<0.1 Ω Rated Current :600 mA

SBY201209T-320Y-N



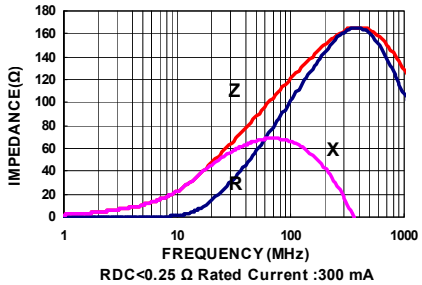
RDC<0.1 Ω Rated Current :600 mA

SBK201209T-600Y-N



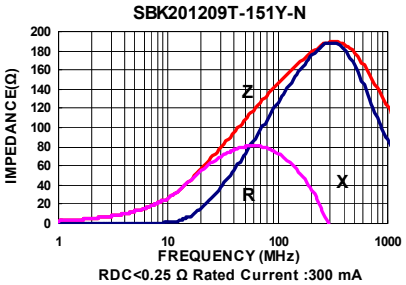
RDC<0.15 Ω Rated Current :500 mA

SBK201209T-121Y-N



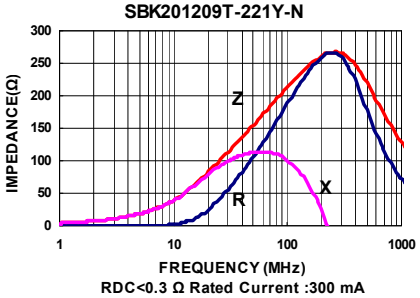
RDC<0.25 Ω Rated Current :300 mA

SBK201209T-151Y-N



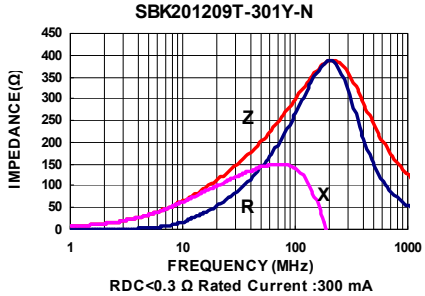
RDC<0.25 Ω Rated Current :300 mA

SBK201209T-221Y-N



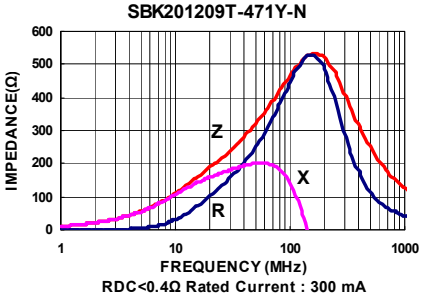
RDC<0.3 Ω Rated Current :300 mA

SBK201209T-301Y-N



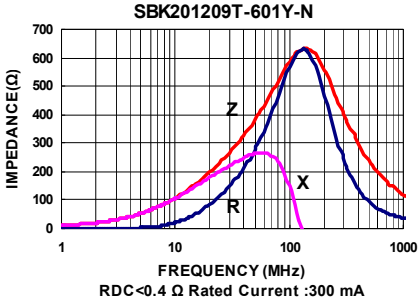
RDC<0.3 Ω Rated Current :300 mA

SBK201209T-471Y-N



RDC<0.4Ω Rated Current : 300 mA

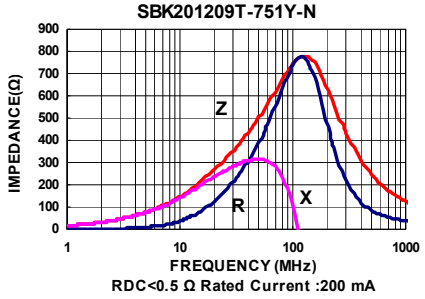
SBK201209T-601Y-N



RDC<0.4 Ω Rated Current :300 mA

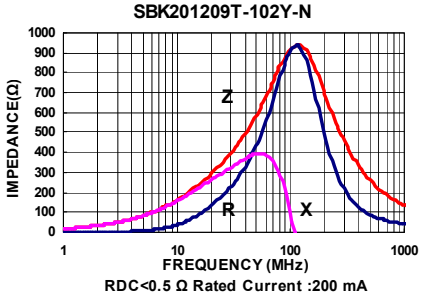
Test Instruments：Agilent E4991A Impedance / Material Analyzer

SBK201209T-751Y-N



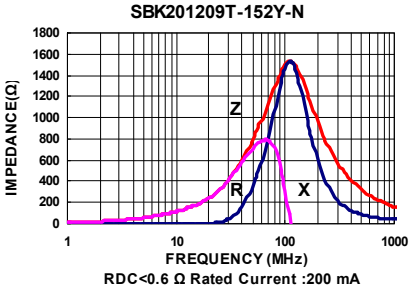
RDC<0.5 Ω Rated Current :200 mA

SBK201209T-102Y-N



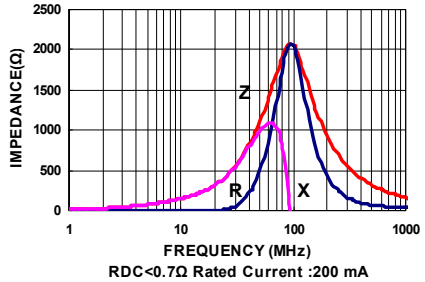
RDC<0.5 Ω Rated Current :200 mA

SBK201209T-152Y-N



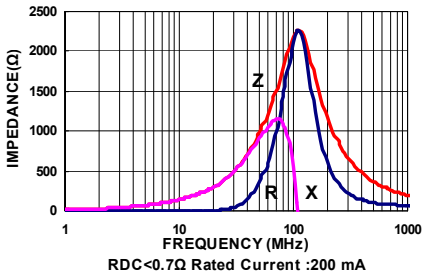
RDC<0.6 Ω Rated Current :200 mA

SBK201209T-202Y-N



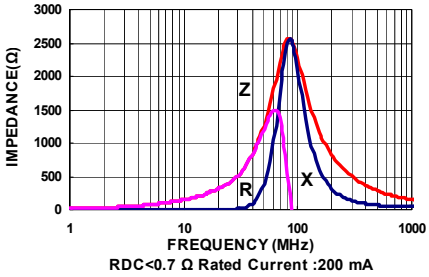
RDC<0.7Ω Rated Current :200 mA

SBK201209T-222Y-N



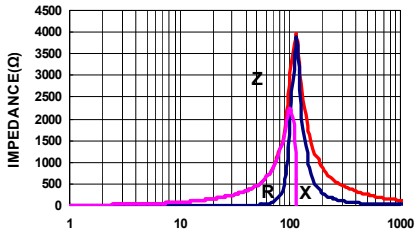
RDC<0.7Ω Rated Current :200 mA

SBK201209T-252Y-N



RDC<0.7 Ω Rated Current :200 mA

SBK201209T-272Y-N



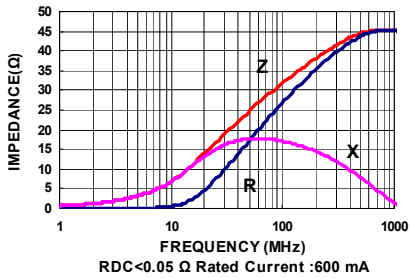
RDC<0.7 Ω Rated Current :200 mA

Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
SBY321611T-110Y-N	100	11±30%	0.05	600
SBY321611T-320Y-N	100	32	0.05	600
SBY321611T-600Y-N	100	60	0.10	500
SBK321611T-900Y-N	100	90	0.15	500
SBK321611T-121Y-N	100	120	0.15	500
SBK321611T-151Y-N	100	150	0.15	500
SBK321611T-471Y-N	100	470	0.20	400
SBK321611T-601Y-N	100	600	0.30	400
SBK321611T-102Y-N	50	1000	0.40	200
SBK321611T-122Y-N	50	1200	0.40	200
SBK321611T-152Y-N	50	1500	0.45	200

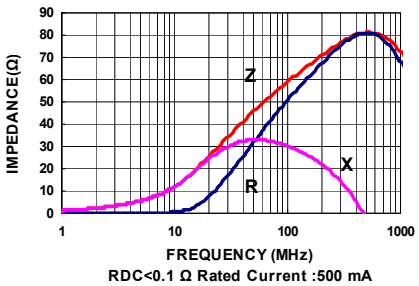
Test Instruments：Agilent E4991A Impedance / Material Analyzer

SBY321611T-320Y-N



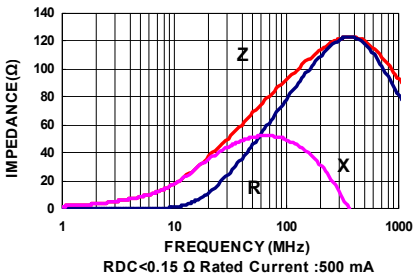
RDC<0.05 Ω Rated Current :600 mA

SBY321611T-600Y-N



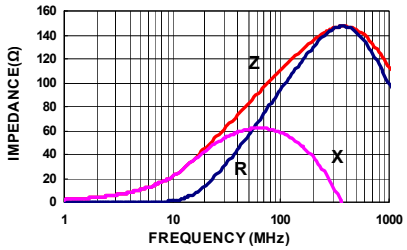
RDC<0.1 Ω Rated Current :500 mA

SBK321611T-900Y-N



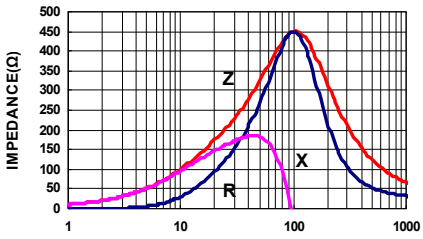
RDC<0.15 Ω Rated Current :500 mA

SBK321611T-121Y-N



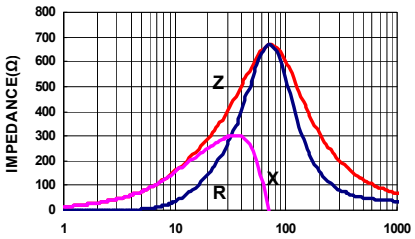
RDC<0.15 Ω Rated Current :500 mA

SBK321611T-471Y-N



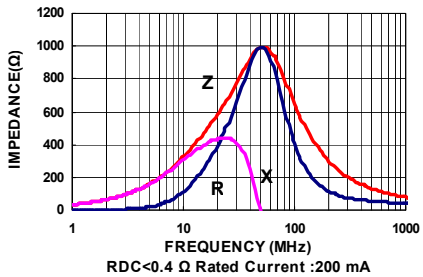
RDC<0.3 Ω Rated Current :400 mA

SBK321611T-601Y-N



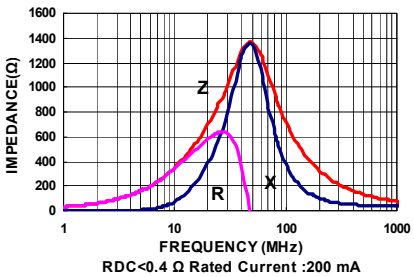
RDC<0.3 Ω Rated Current :400 mA

SBK321611T-102Y-N



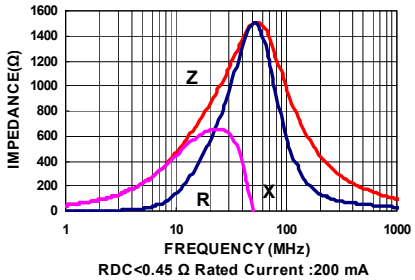
RDC<0.4 Ω Rated Current :200 mA

SBK321611T-122Y-N



RDC<0.4 Ω Rated Current :200 mA

SBK321611T-152Y-N

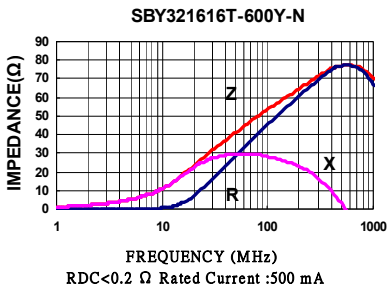


RDC<0.45 Ω Rated Current :200 mA

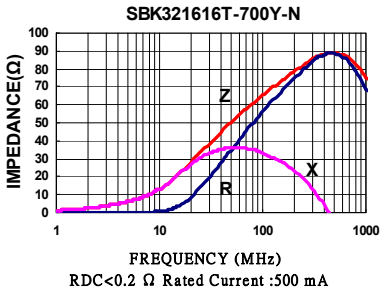
Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
SBY321616T-250Y-N	100	25	0.10	500
SBY321616T-600Y-N	100	60	0.20	500
SBK321616T-700Y-N	100	70	0.20	500

Test Instruments：Agilent E4991A Impedance / Material Analyzer



RDC<0.2 Ω Rated Current :500 mA

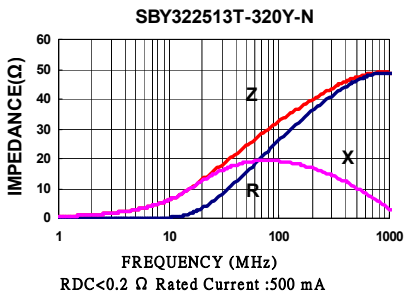


RDC<0.2 Ω Rated Current :500 mA

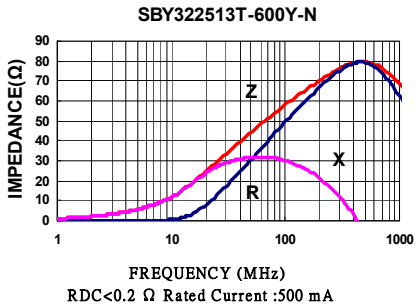
Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
SBY322513T-320Y-N	100	32	0.20	500
SBY322513T-600Y-N	100	60	0.20	500
SBY322513T-900Y-N	100	90	0.20	500
SBY322513T-121Y-N	100	120	0.20	500

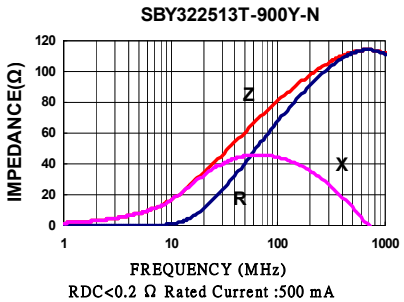
Test Instruments：Agilent E4991A Impedance / Material Analyzer



RDC<0.2 Ω Rated Current :500 mA



RDC<0.2 Ω Rated Current :500 mA



RDC<0.2 Ω Rated Current :500 mA

Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: SB, GB, PB, UPB, NB, HF, and HP series.

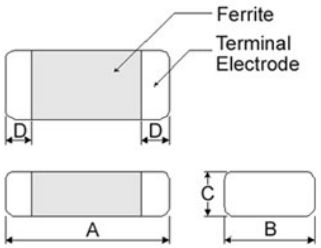
Product Identification

□□□ □□□□□□ □–□□□□–□

- CEC Internal No.
- Tolerance
- Impedance
- Packaging Style
- Dimensions(A、B、C)
- Design code
- Product Symbol

- Product symbol: SB, GB, PB, UPB, NB, HF, HP
- Packaging: T：Tape and Reel；B：Bulk
- Tolerance: Y = ± 25%; M = ± 20%; T:±30%
- Note: RoHS Compliant

Shape and Dimensions

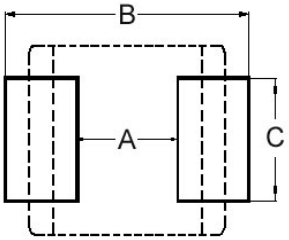


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
④201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑤201212	2.0±0.20	1.25±0.20	1.25±0.20	0.5±0.3
④321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑥321616	3.2±0.20	1.60±0.20	1.6±0.20	0.5±0.3
⑦322513	3.2±0.20	2.50±0.20	1.3±0.20	0.5±0.3
⑧451616	4.5±0.25	1.60±0.20	1.6±0.20	0.5±0.3
⑧453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

①：SB / PB / NB ②：SB / PB / NB / HF ⑦：SB / PB
③：SB / PB / NB / GB / UPB / HF / HP ⑤：UPB ⑥：SB
④：SB / PB / NB / GB / UPB ⑧：PB / UPB

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
⑤201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
④321611	2.0	4.2 ~ 5.2	1.2
⑥321616	2.0	4.2 ~ 5.2	1.2
⑦322513	2.0	5.5 ~ 6.5	1.8
⑧451616	3.0	5.5 ~ 6.5	1.2
⑧453215	3.0	5.5 ~ 6.5	2.4

＊ Don't apply narrower pattern than listed above to PBY and UPB. Narrow pattern might cause excessive heat or open circuit.

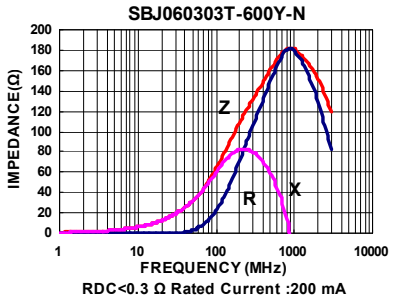
Dimension Conversion

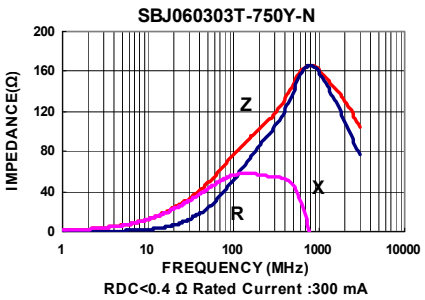
Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
201212	2.0x1.2x1.25	0805
321611	3.2x1.6x.1.1	1206
321616	3.2x1.6x1.6	1206
322513	3.2x2.5x1.3	1210
451616	4.5x1.6x1.6	1806
453215	4.5x3.2x1.5	1812

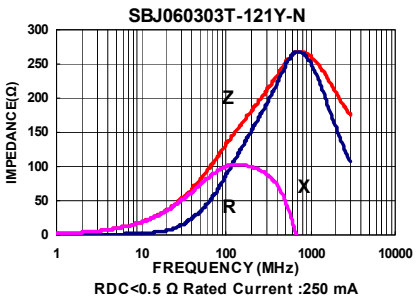
Electrical Characteristics

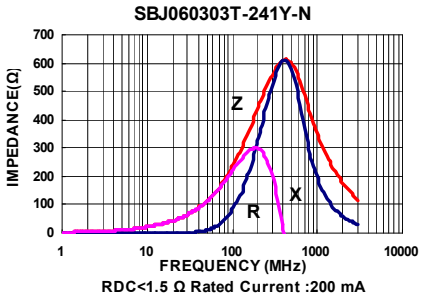
Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
SBJ060303T-600Y-N	100	60	0.3	200
SBJ060303T-750Y-N	100	75	0.4	300
SBJ060303T-121Y-N	100	120	0.5	250
SBJ060303T-241Y-N	100	240	1.0	220
SBJ060303T-471Y-N	100	470	1.5	200

Test Instruments：Agilent E4991A Impedance / Material Analyzer





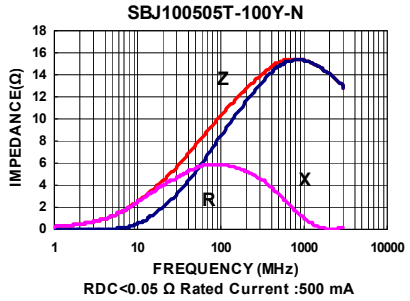




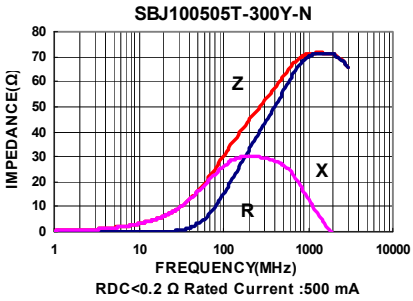
Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
SBJ100505T-100Y-N	100	10±30%	0.05	500
SBJ100505T-300Y-N	100	30	0.20	500
SBJ100505T-600Y-N	100	60	0.20	500
SBJ100505T-121Y-N	100	120	0.25	500
SBJ100505T-221Y-N	100	220	0.40	400
SBJ100505T-301Y-N	100	300	0.50	300
SBJ100505T-481Y-N	100	480	0.50	300
SBJ100505T-601Y-N	100	600	0.60	300
SBJ100505T-102Y-N	100	1000	0.95	200
SBJ100505T-152Y-N	100	1500	1.15	100
SBJ100505T-182Y-N	100	1800	1.40	100
SBJ100505T-252Y-N	100	2500	1.80	100

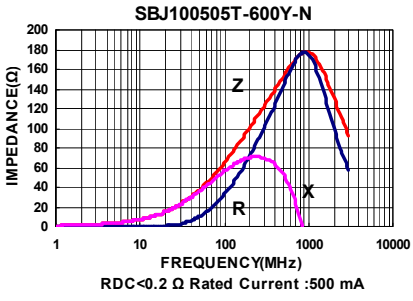
Test Instruments：Agilent E4991A Impedance / Material Analyzer



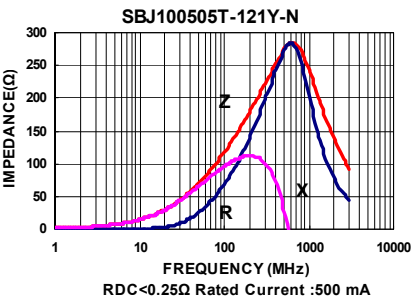
RDC<0.05 Ω Rated Current :500 mA



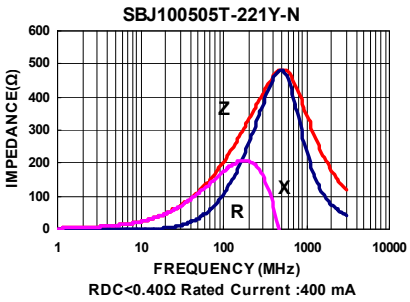
RDC<0.2 Ω Rated Current :500 mA



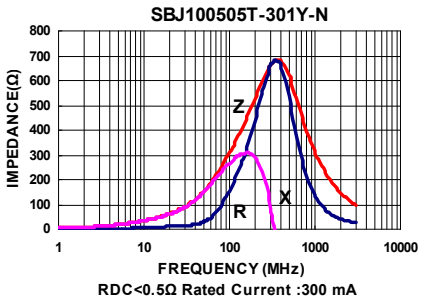
RDC<0.2 Ω Rated Current :500 mA



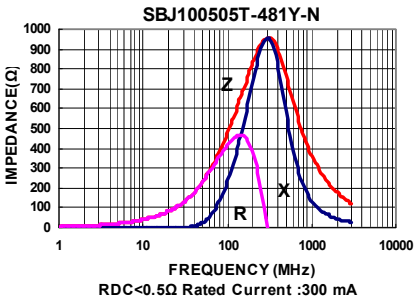
RDC<0.25Ω Rated Current :500 mA



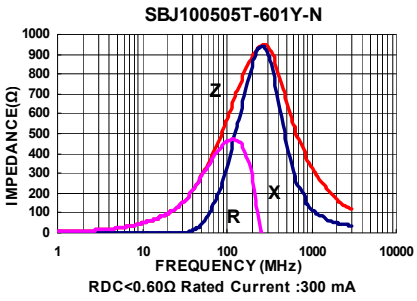
RDC<0.40Ω Rated Current :400 mA



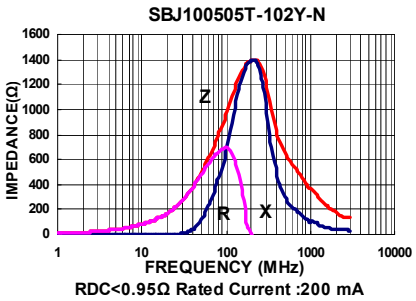
RDC<0.5Ω Rated Current :300 mA



RDC<0.5Ω Rated Current :300 mA

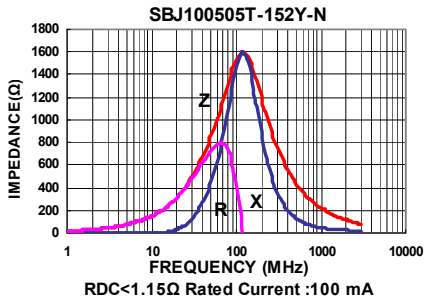


RDC<0.60Ω Rated Current :300 mA

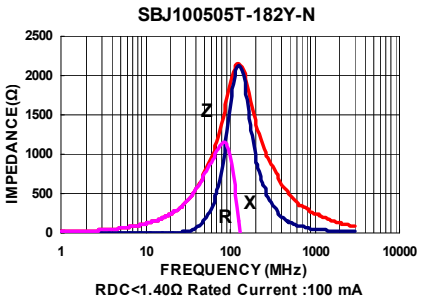


RDC<0.95Ω Rated Current :200 mA

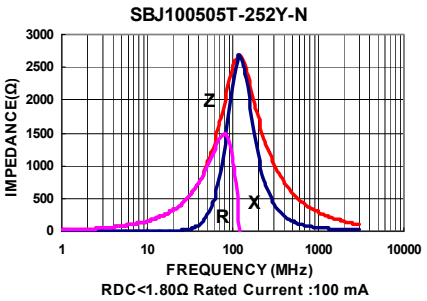
Test Instruments：Agilent E4991A Impedance / Material Analyzer



RDC<1.15Ω Rated Current :100 mA



RDC<1.40Ω Rated Current :100 mA



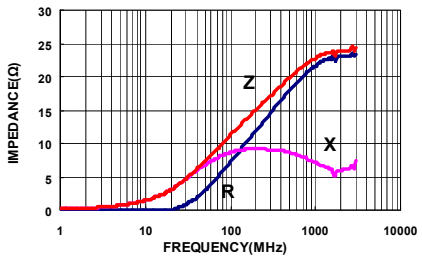
RDC<1.80Ω Rated Current :100 mA

Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
SBJ160808T-110Y-N	100	11±30%	0.05	500
SBJ160808T-320Y-N	100	32	0.10	400
SBJ160808T-600Y-N	100	60	0.10	400
SBJ160808T-121Y-N	100	120	0.25	400
SBJ160808T-221Y-N	100	220	0.30	400
SBJ160808T-301Y-N	100	300	0.40	400
SBJ160808T-471Y-N	100	470	0.40	400
SBJ160808T-601Y-N	100	600	0.40	400
SBJ160808T-102Y-N	100	1000	0.60	300
SBJ160808T-152Y-N	100	1500	0.80	200
SBJ160808T-182Y-N	100	1800	1.0	200
SBJ160808T-202Y-N	100	2000	1.0	200
SBJ160808T-222Y-N	100	2200	1.0	200
SBJ160808T-252Y-N	100	2500	1.0	200
SBJ160808T-272Y-N	100	2700	1.0	200

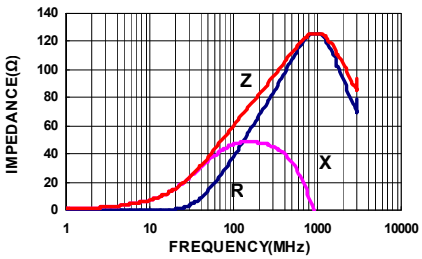
Test Instruments：Agilent E4991A Impedance / Material Analyzer

SBJ160808T-110Y-N



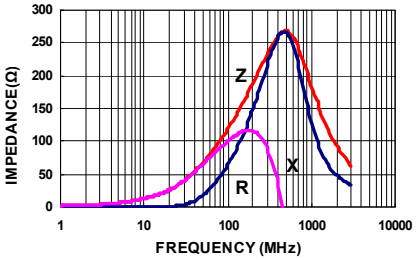
RDC<0.050Ω Rated current:500mA

SBJ160808T-600Y-N



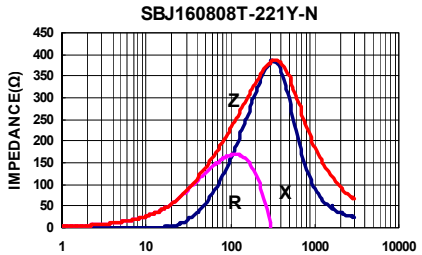
RDC<0.10Ω Rated current:400mA

SBJ160808T-121Y-N



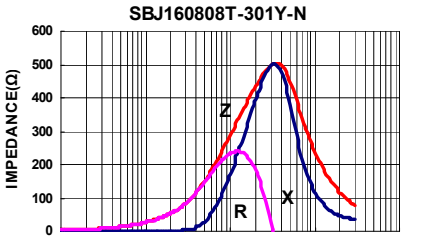
RDC<0.25Ω Rated Current :400 mA

SBJ160808T-221Y-N



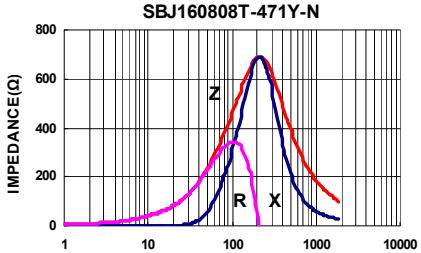
RDC<0.30Ω Rated current:200mA

SBJ160808T-301Y-N



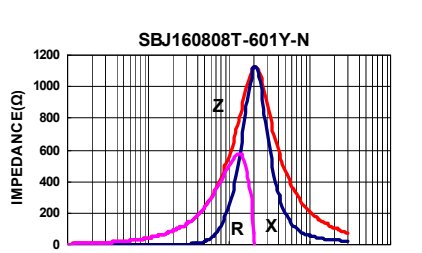
RDC<0.40Ω Rated current:400mA

SBJ160808T-471Y-N



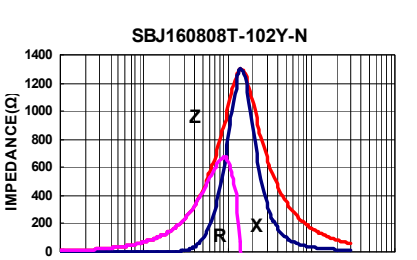
RDC<0.40Ω Rated Current :400mA

SBJ160808T-601Y-N



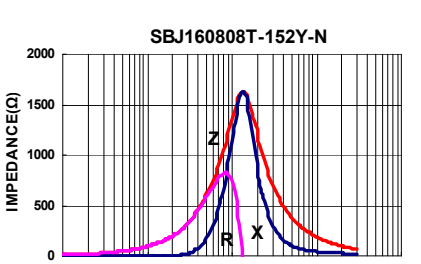
RDC<0.40Ω Rated Current :400mA

SBJ160808T-102Y-N



RDC<0.60Ω Rated Current :300mA

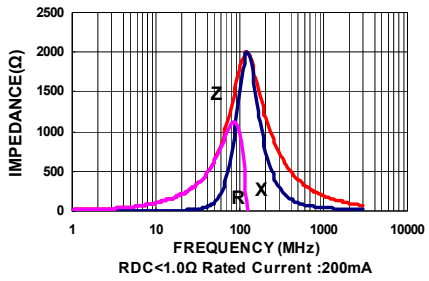
SBJ160808T-152Y-N



RDC<0.80Ω Rated Current :200mA

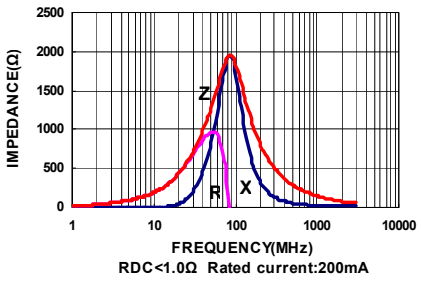
Test Instruments：Agilent E4991A Impedance / Material Analyzer

SBJ160808T-182Y-N



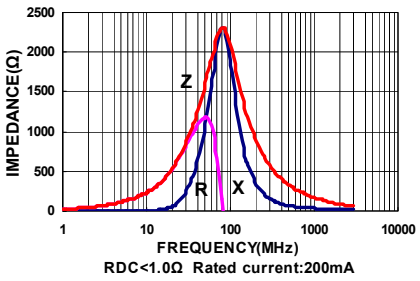
RDC<1.0Ω Rated Current :200mA

SBJ160808T-202Y-N



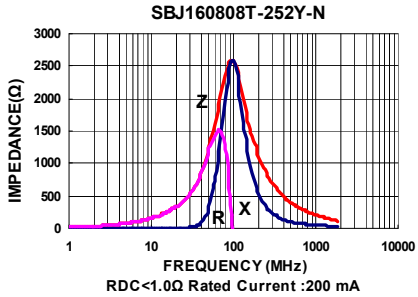
RDC<1.0Ω Rated current:200mA

SBJ160808T-222Y-N



RDC<1.0Ω Rated current:200mA

SBJ160808T-252Y-N

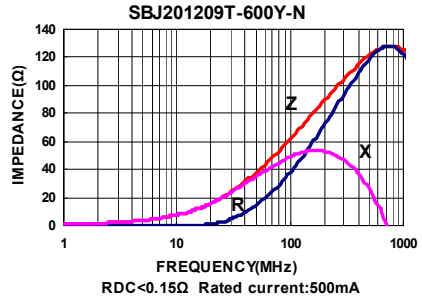


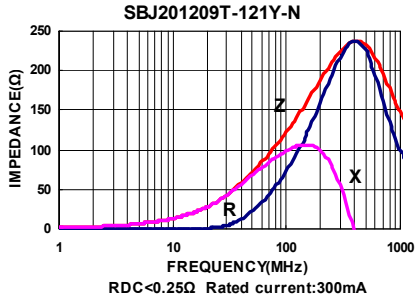
RDC<1.0Ω Rated Current :200 mA

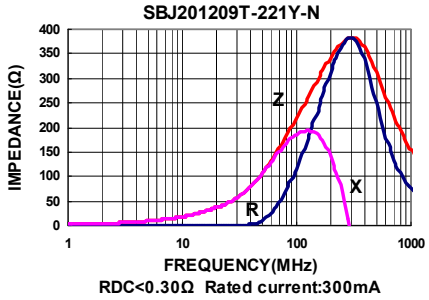
Electrical Characteristics

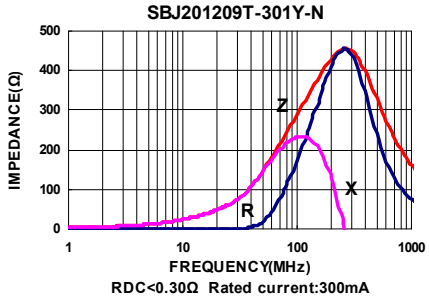
Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
SBJ201209T-110Y-N	100	11±30%	0.10	600
SBJ201209T-320Y-N	100	32	0.10	600
SBJ201209T-600Y-N	100	60	0.15	500
SBJ201209T-121Y-N	100	120	0.25	300
SBJ201209T-221Y-N	100	220	0.30	300
SBJ201209T-301Y-N	100	300	0.30	300
SBJ201209T-471Y-N	100	470	0.40	300
SBJ201209T-601Y-N	100	600	0.40	300
SBJ201209T-751Y-N	100	750	0.50	200
SBJ201209T-102Y-N	100	1000	0.50	200
SBJ201209T-152Y-N	100	1500	0.60	200
SBJ201209T-202Y-N	100	2000	0.70	200
SBJ201209T-222Y-N	100	2200	0.80	200
SBJ201209T-252Y-N	100	2500	0.80	200
SBJ201209T-272Y-N	100	2700	1.50	100

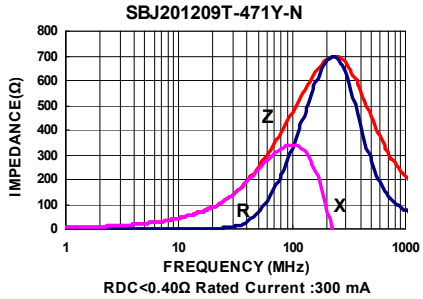
Test Instruments：Agilent E4991A Impedance / Material Analyzer

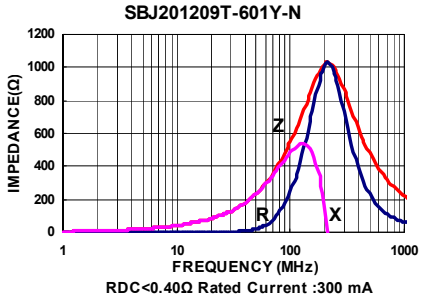


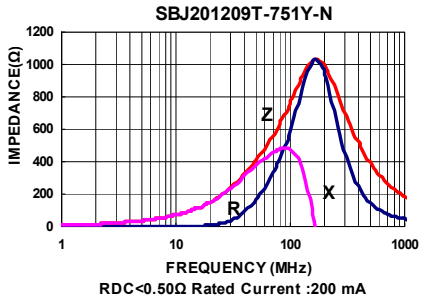


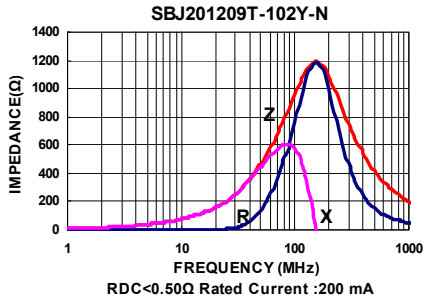


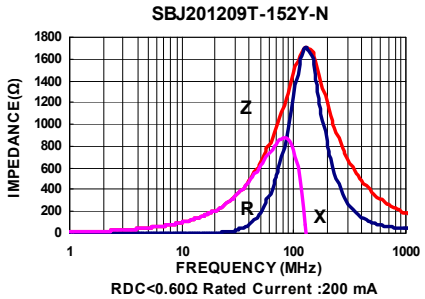








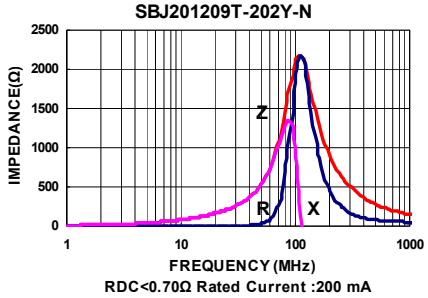




CHILISIN ELECTRONICS CORP.

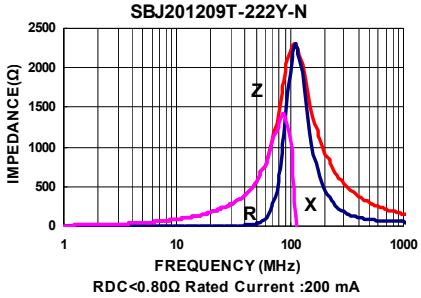
Test Instruments：Agilent E4991A Impedance / Material Analyzer

SBJ201209T-202Y-N



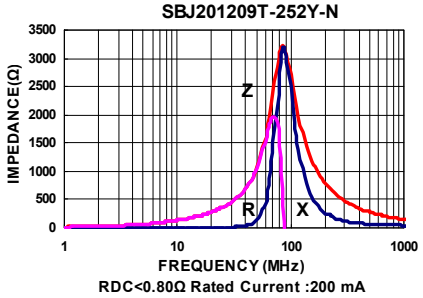
RDC<0.70Ω Rated Current :200 mA

SBJ201209T-222Y-N



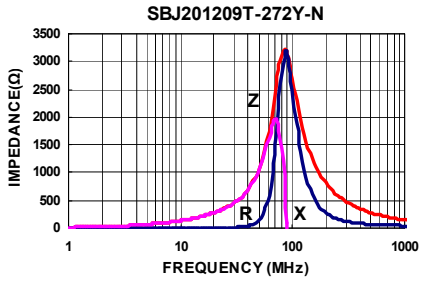
RDC<0.80Ω Rated Current :200 mA

SBJ201209T-252Y-N



RDC<0.80Ω Rated Current :200 mA

SBJ201209T-272Y-N

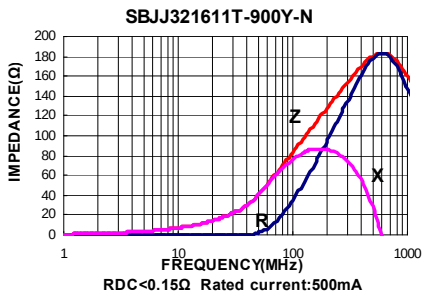


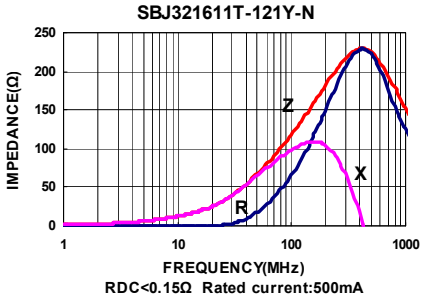
RDC<1.50Ω Rated Current :100 mA

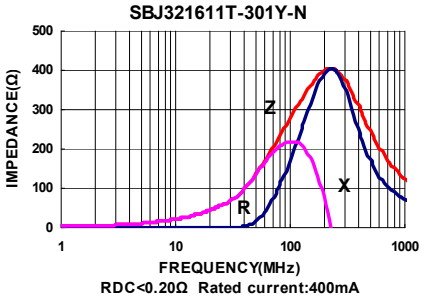
Electrical Characteristics

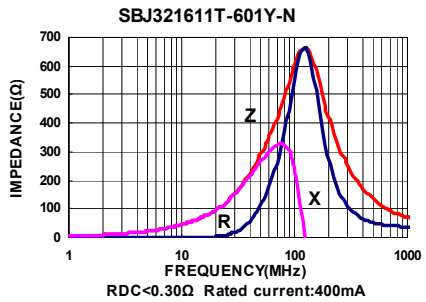
Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
SBJ321611T-110Y-N	100	11±30%	0.05	600
SBJ321611T-310Y-N	100	31	0.05	600
SBJ321611T-600Y-N	100	60	0.10	500
SBJ321611T-900Y-N	100	90	0.15	500
SBJ321611T-121Y-N	100	120	0.15	500
SBJ321611T-221Y-N	100	220	0.20	400
SBJ321611T-301Y-N	100	300	0.20	400
SBJ321611T-601Y-N	100	600	0.30	400
SBJ321611T-102Y-N	100	1000	0.40	200
SBJ321611T-122Y-N	100	1200	0.40	200
SBJ321611T-152Y-N	100	1500	0.45	200

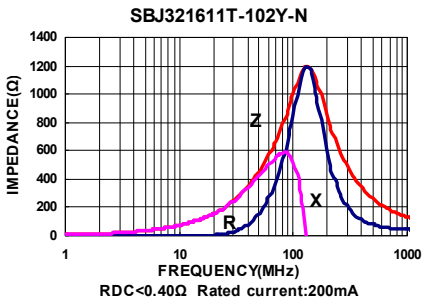
Test Instruments：Agilent E4991A Impedance / Material Analyzer





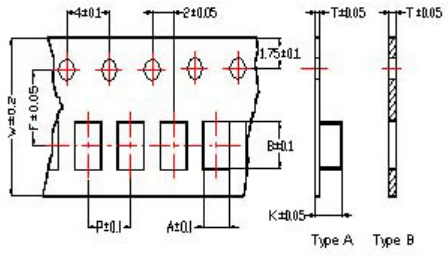




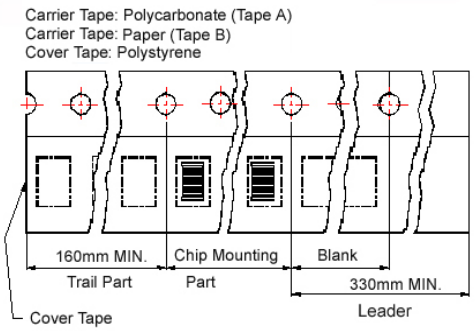


Packaging Specifications

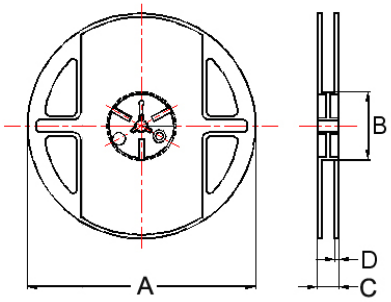
Tape Dimensions



Tape Material



Reel Dimensions



① : SB / PB / NB ② : SB / PB / NB / HF ⑦ : SB / PB
③ : SB / PB / NB / GB / UPB / HF / HP ⑤ : UPB ④ :
SB / PB / NB / GB / UPB ⑥ : SB ⑧ : PB / UPB

Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
①060303	0.38	0.67	0.45	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.65	1.15	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
④201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201212	1.35	2.25	0.22	8.0	4.0	3.5	1.35	A	178	60	12	2	3000
④321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑥321616	1.88	3.53	0.22	8.0	4.0	3.5	1.80	A	178	60	12	2	2000
⑦322513	2.77	3.42	0.22	8.0	4.0	3.5	1.55	A	178	60	12	2	2500
⑧451616	1.93	4.95	0.24	12	4.0	5.5	1.93	A	178	60	14	2	2000
⑧453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000

Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: SB, GB, PB, UPB, NB, HF, and HP series.

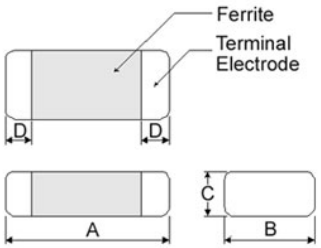
Product Identification

□□□ □□□□□□ □–□□□□–□

- CEC Internal No.
- Tolerance
- Impedance
- Packaging Style
- Dimensions(A、B、C)
- Design code
- Product Symbol

- Product symbol: SB, GB, PB, UPB, NB, HF, HP
- Packaging: T：Tape and Reel；B：Bulk
- Tolerance: Y = ± 25%; M = ± 20%; T:±30%
- Note: RoHS Compliant

Shape and Dimensions

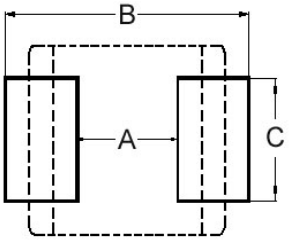


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
④201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑤201212	2.0±0.20	1.25±0.20	1.25±0.20	0.5±0.3
④321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑥321616	3.2±0.20	1.60±0.20	1.6±0.20	0.5±0.3
⑦322513	3.2±0.20	2.50±0.20	1.3±0.20	0.5±0.3
⑧451616	4.5±0.25	1.60±0.20	1.6±0.20	0.5±0.3
⑧453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

①：SB / PB / NB ②：SB / PB / NB / HF ⑦：SB / PB
③：SB / PB / NB / GB / UPB / HF / HP ⑤：UPB ⑥：SB
④：SB / PB / NB / GB / UPB ⑧：PB / UPB

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
⑤201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
④321611	2.0	4.2 ~ 5.2	1.2
⑥321616	2.0	4.2 ~ 5.2	1.2
⑦322513	2.0	5.5 ~ 6.5	1.8
⑧451616	3.0	5.5 ~ 6.5	1.2
⑧453215	3.0	5.5 ~ 6.5	2.4

＊ Don't apply narrower pattern than listed above to PBY and UPB. Narrow pattern might cause excessive heat or open circuit.

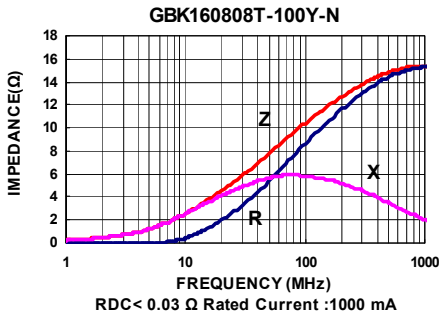
Dimension Conversion

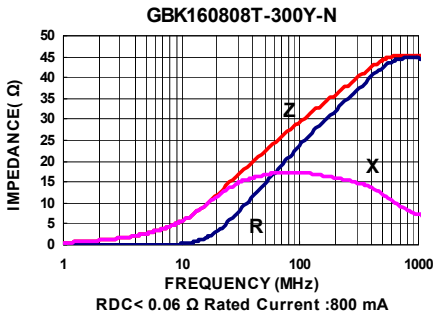
Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
201212	2.0x1.2x1.25	0805
321611	3.2x1.6x.1.1	1206
321616	3.2x1.6x1.6	1206
322513	3.2x2.5x1.3	1210
451616	4.5x1.6x1.6	1806
453215	4.5x3.2x1.5	1812

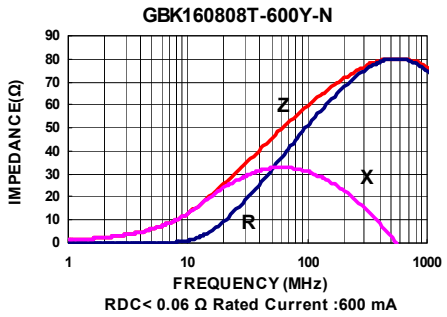
Electrical Characteristics

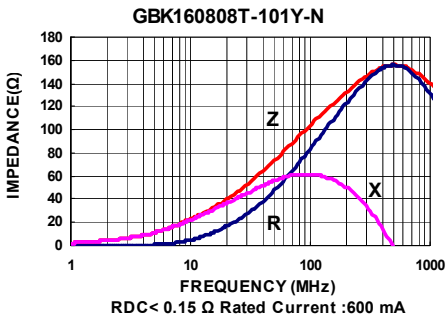
Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
GBK160808T-100Y-N	100	10±30%	0.03	1000
GBK160808T-300Y-N	100	30	0.06	800
GBK160808T-600Y-N	100	60	0.06	600
GBK160808T-101Y-N	100	100	0.15	600
GBK160808T-121Y-N	100	120	0.15	600
GBK160808T-221Y-N	100	220	0.18	400
GBK160808T-301Y-N	100	300	0.25	400
GBK160808T-451Y-N	100	450	0.30	400
GBK160808T-601Y-N	100	600	0.30	400
GBK160808T-751Y-N	100	750	0.45	300
GBK160808T-102Y-N	100	1000	0.45	300
GBK160808T-152Y-N	100	1500	0.70	150

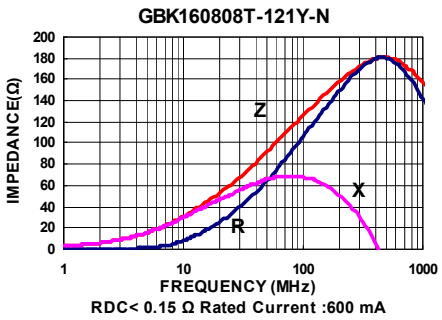
Test Instruments：Agilent E4991A Impedance / Material Analyzer

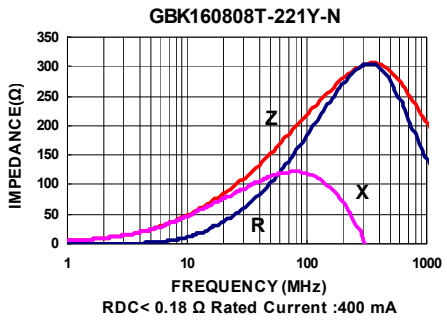


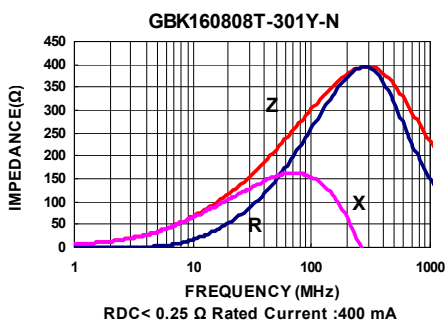


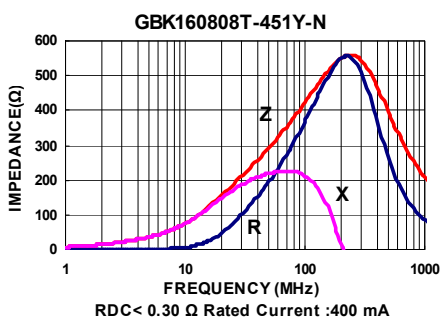


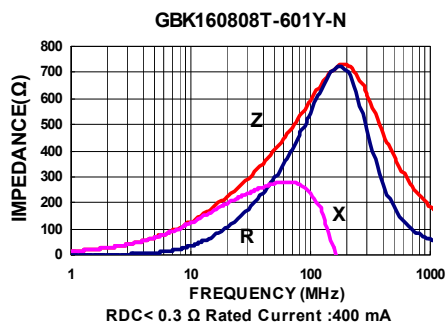




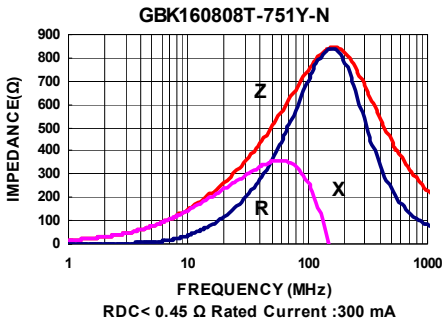


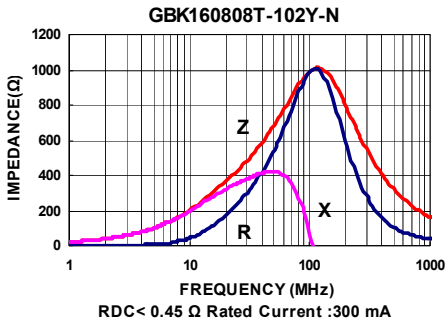


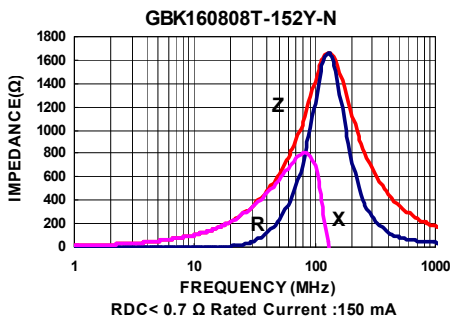




Test Instruments：Agilent E4991A Impedance / Material Analyzer





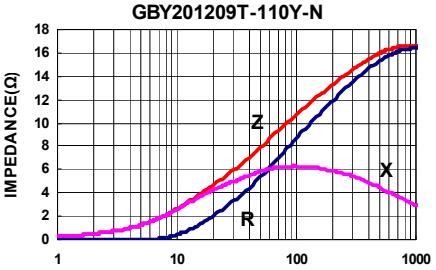


Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
GBY201209T-110Y-N	100	11±30%	0.06	1000
GBY201209T-320Y-N	100	32	0.06	1000
GBK201209T-600Y-N	100	60	0.10	800
GBK201209T-121Y-N	100	120	0.15	600
GBK201209T-151Y-N	100	150	0.15	600
GBK201209T-221Y-N	100	220	0.18	600
GBK201209T-301Y-N	100	300	0.18	600
GBK201209T-401Y-N	100	400	0.18	600
GBK201209T-601Y-N	100	600	0.25	500
GBK201209T-751Y-N	100	750	0.30	400
GBK201209T-102Y-N	100	1000	0.30	400
GBK201209T-152Y-N	100	1500	0.40	400
GBK201209T-202Y-N	100	2000	0.55	400

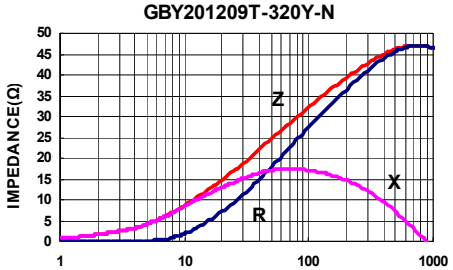
Test Instruments：Agilent E4991A Impedance / Material Analyzer

GBY201209T-110Y-N



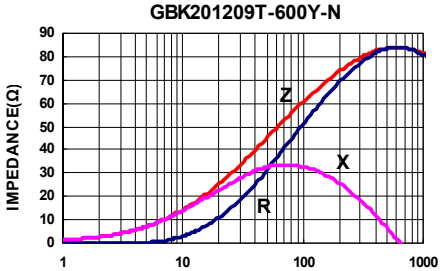
RDC<0.06 Ω Rated Current :1000 mA

GBY201209T-320Y-N



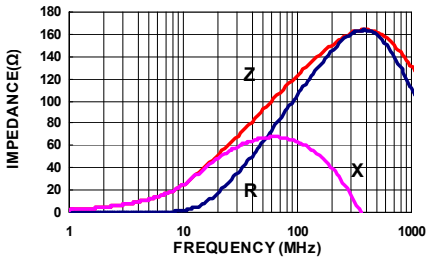
RDC<0.06 Ω Rated Current :1000 mA

GBK201209T-600Y-N



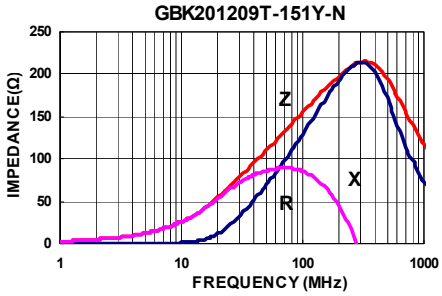
RDC<0.1 Ω Rated Current :800 mA

GBK201209T-121Y-N



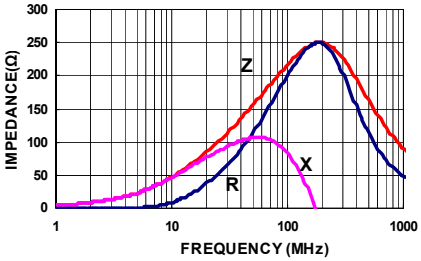
RDC<0.15 Ω Rated Current :600 mA

GBK201209T-151Y-N



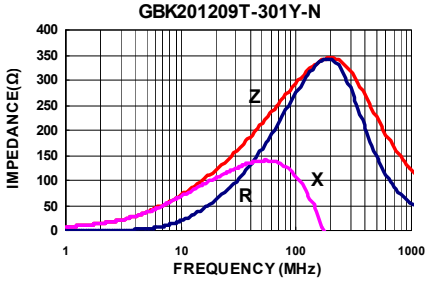
RDC<0.15 Ω Rated Current :600 mA

GBK201209T-221Y-N



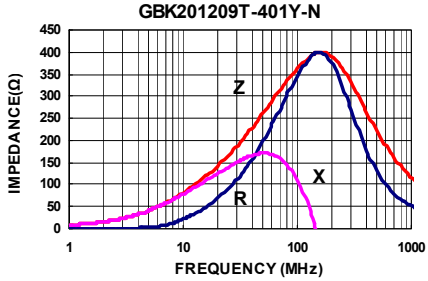
RDC<0.18 Ω Rated Current :400 mA

GBK201209T-301Y-N



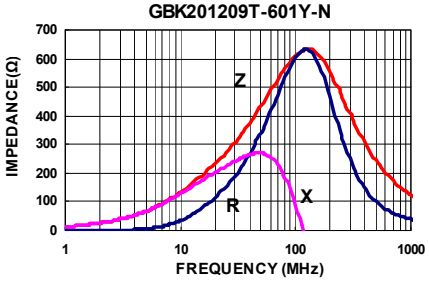
RDC<0.18 Ω Rated Current :600 mA

GBK201209T-401Y-N



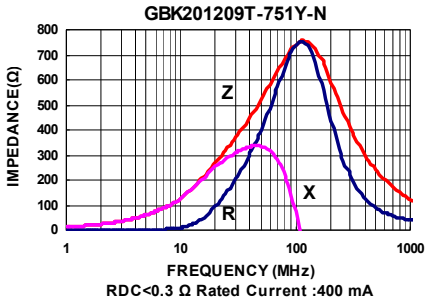
RDC<0.18 Ω Rated Current :600 mA

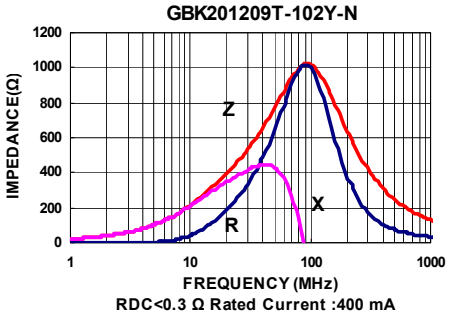
GBK201209T-601Y-N

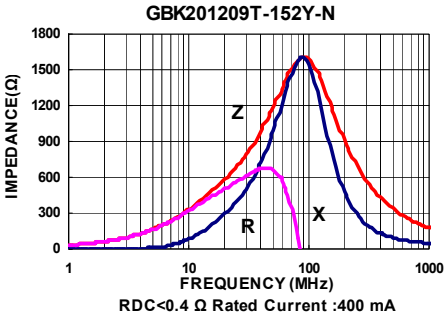


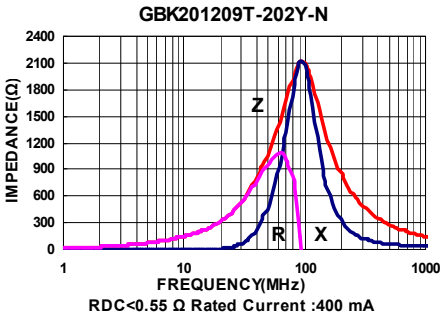
RDC<0.25 Ω Rated Current :500 mA

Test Instruments：Agilent E4991A Impedance / Material Analyzer







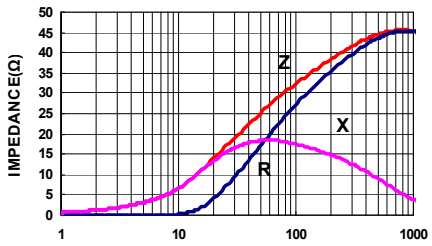


Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
GBY321611T-320Y-N	100	32	0.03	1000
GBY321611T-600Y-N	100	60	0.06	800
GBK321611T-700Y-N	100	70	0.06	800
GBK321611T-900Y-N	100	90	0.10	800
GBK321611T-121Y-N	100	120	0.10	800
GBK321611T-151Y-N	100	150	0.10	800
GBK321611T-201Y-N	100	200	0.15	600
GBK321611T-401Y-N	100	400	0.15	600
GBK321611T-501Y-N	100	500	0.15	600
GBK321611T-601Y-N	100	600	0.20	500
GBK321611T-102Y-N	50	1000	0.25	400
GBK321611T-122Y-N	50	1200	0.25	400
GBK321611T-202Y-N	30	2000	0.35	400

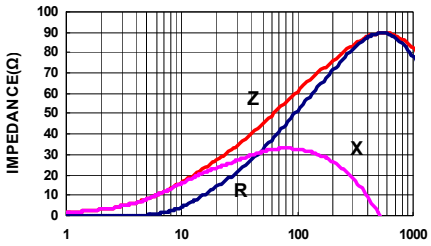
Test Instruments：Agilent E4991A Impedance / Material Analyzer

GBY321611T-320Y-N



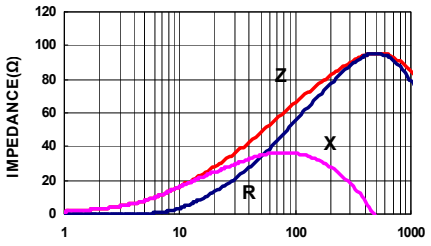
RDC< 0.03Ω Rated Current :1000 mA

GBY321611T-600Y-N



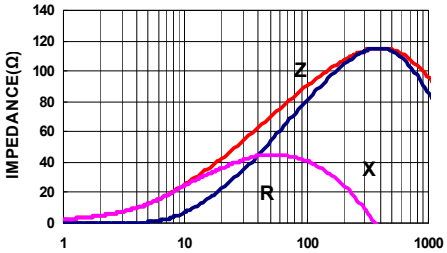
RDC< 0.06Ω Rated Current :800 mA

GBK321611T-700Y-N



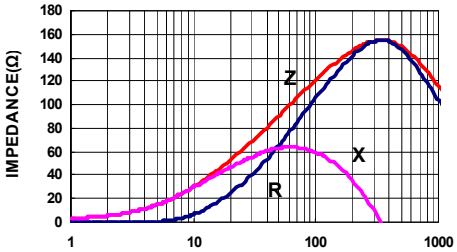
RDC< 0.06 Ω Rated Current :800 mA

GBK321611T-900Y-N



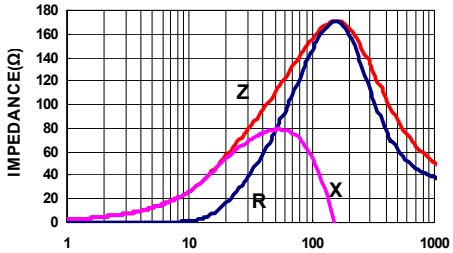
RDC< 0.1Ω Rated Current :800 mA

GBK321611T-121Y-N



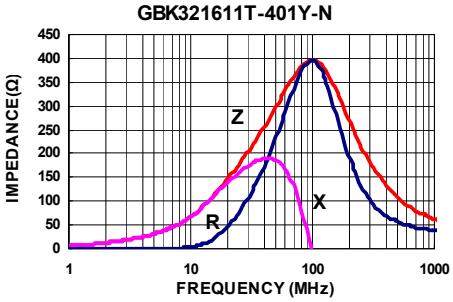
RDC< 0.1Ω Rated Current :800 mA

GBK321611T-151Y-N



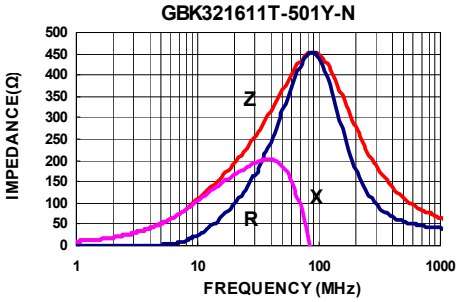
RDC< 0.1 Ω Rated Current :800 mA

GBK321611T-401Y-N



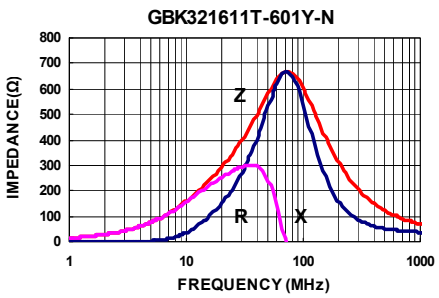
RDC< 0.15 Ω Rated Current :600 mA

GBK321611T-501Y-N



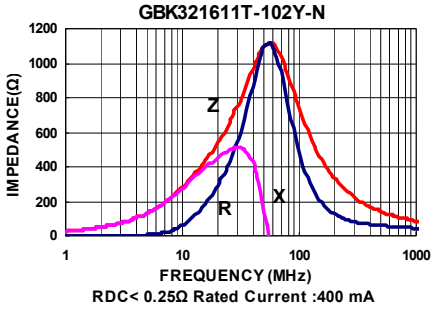
RDC< 0.15Ω Rated Current :600 mA

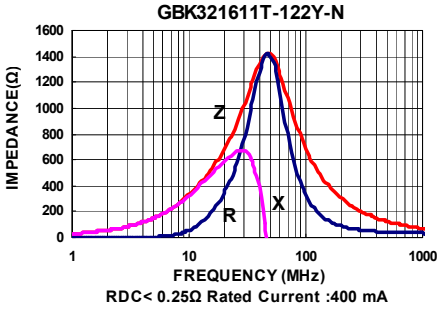
GBK321611T-601Y-N

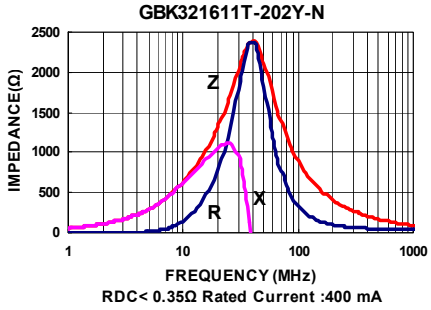


RDC< 0.2Ω Rated Current :500 mA

Test Instruments：Agilent E4991A Impedance / Material Analyzer

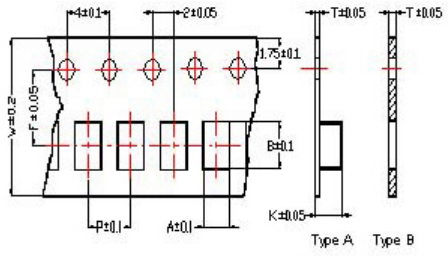




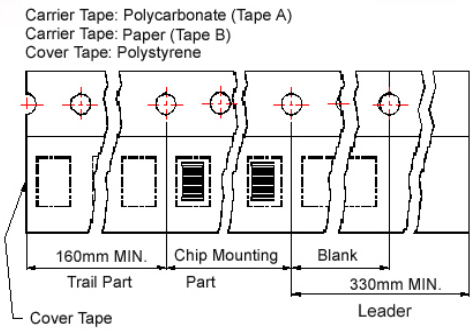


Packaging Specifications

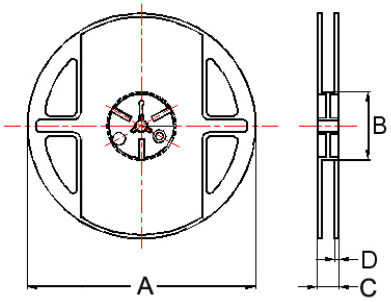
Tape Dimensions



Tape Material



Reel Dimensions



① : SB / PB / NB ② : SB / PB / NB / HF ⑦ : SB / PB
③ : SB / PB / NB / GB / UPB / HF / HP ⑤ : UPB ④ :
SB / PB / NB / GB / UPB ⑥ : SB ⑧ : PB / UPB

Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
①060303	0.38	0.67	0.45	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.65	1.15	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
④201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201212	1.35	2.25	0.22	8.0	4.0	3.5	1.35	A	178	60	12	2	3000
④321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑥321616	1.88	3.53	0.22	8.0	4.0	3.5	1.80	A	178	60	12	2	2000
⑦322513	2.77	3.42	0.22	8.0	4.0	3.5	1.55	A	178	60	12	2	2500
⑧451616	1.93	4.95	0.24	12	4.0	5.5	1.93	A	178	60	14	2	2000
⑧453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000

Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: SB, GB, PB, UPB, NB, HF, and VPB series.

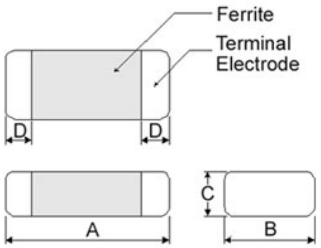
Product Identification

□□□ □□□□□□ □–□□□□–□

- CEC Internal No.
- Tolerance
- Impedance
- Packaging Style
- Dimensions(A、B、C)
- Design code
- Product Symbol

- Product symbol: SB, GB, PB, UPB, NB, HF, VPB
- Packaging: T：Tape and Reel；B：Bulk
- Tolerance: Y = ± 25%; M = ± 20%; T:±30%
- Note: RoHS Compliant

Shape and Dimensions

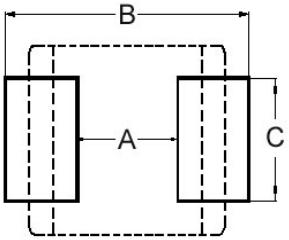


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
④201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑤201212	2.0±0.20	1.25±0.20	1.25±0.20	0.5±0.3
④321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑥321616	3.2±0.20	1.60±0.20	1.6±0.20	0.5±0.3
⑦322513	3.2±0.20	2.50±0.20	1.3±0.20	0.5±0.3
⑧451616	4.5±0.25	1.60±0.20	1.6±0.20	0.5±0.3
⑧453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

①：SB / PB / NB ②：SB / PB / NB / HF ⑦：SB / PB
③：SB / PB / NB / GB / UPB / HF / VPB ⑤：UPB ⑥：SB
④：SB / PB / NB / GB / UPB ⑧：PB / UPB

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
⑤201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
④321611	2.0	4.2 ~ 5.2	1.2
⑥321616	2.0	4.2 ~ 5.2	1.2
⑦322513	2.0	5.5 ~ 6.5	1.8
⑧451616	3.0	5.5 ~ 6.5	1.2
⑧453215	3.0	5.5 ~ 6.5	2.4

＊ Don't apply narrower pattern than listed above to PBY and UPB. Narrow pattern might cause excessive heat or open circuit.

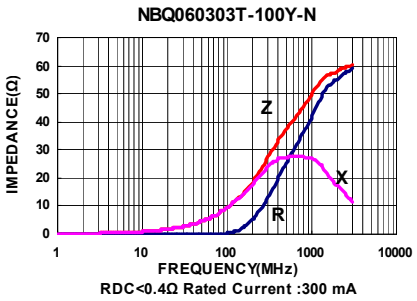
Dimension Conversion

Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
201212	2.0x1.2x1.25	0805
321611	3.2x1.6x.1.1	1206
321616	3.2x1.6x1.6	1206
322513	3.2x2.5x1.3	1210
451616	4.5x1.6x1.6	1806
453215	4.5x3.2x1.5	1812

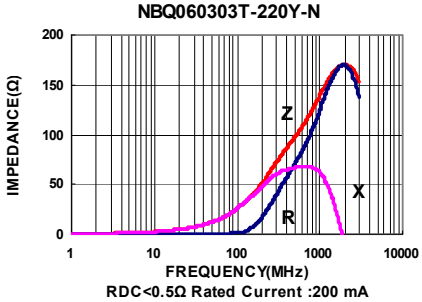
Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
NBQ060303T-100Y-N	100	10±30%	0.4	300
NBQ060303T-220Y-N	100	22	0.5	200
NBQ060303T-470Y-N	100	47	0.7	200
NBQ060303T-750Y-N	100	75	1.0	200
NBQ060303T-121Y-N	100	120	1.5	100

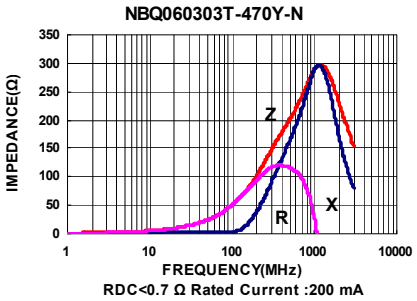
Test Instruments：Agilent E4991A Impedance / Material Analyzer



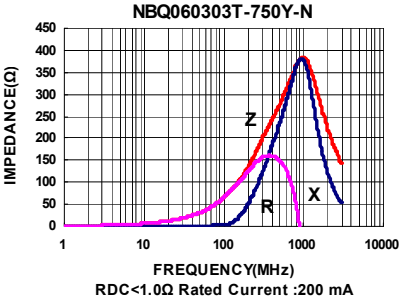
RDC<0.4Ω Rated Current :300 mA



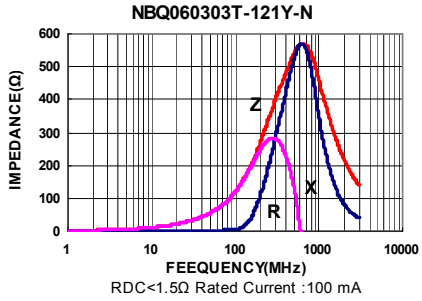
RDC<0.5Ω Rated Current :200 mA



RDC<0.7 Ω Rated Current :200 mA



RDC<1.0Ω Rated Current :200 mA



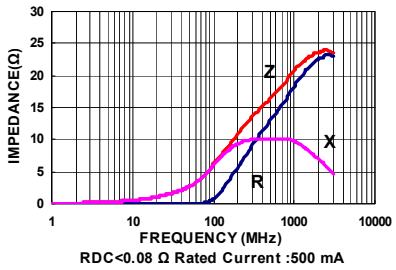
RDC<1.5Ω Rated Current :100 mA

Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
NBQ100505T-060Y-N	100	6±30%	0.08	500
NBQ100505T-100Y-N	100	10±30%	0.10	500
NBQ100505T-750Y-N	100	75	0.30	400
NBQ100505T-121Y-N	100	120	0.40	350
NBQ100505T-221Y-N	100	220	0.60	200
NBQ100505T-301Y-N	100	300	0.80	200
NBQ100505T-471Y-N	100	470	1.10	200
NBQ100505T-601Y-N	100	600	1.20	200

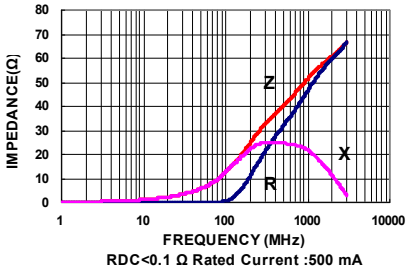
Test Instruments：Agilent E4991A Impedance / Material Analyzer

NBQ100505T-060Y-N



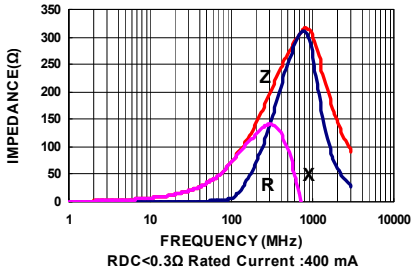
RDC<0.08 Ω Rated Current :500 mA

NBQ100505T-100Y-N



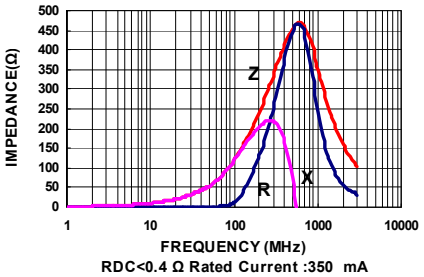
RDC<0.1 Ω Rated Current :500 mA

NBQ100505T-750Y-N



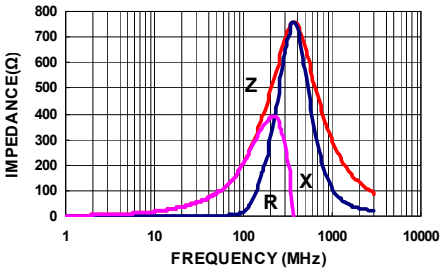
RDC<0.3Ω Rated Current :400 mA

NBQ100505T-121Y-N



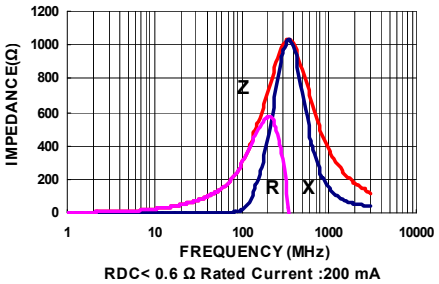
RDC<0.4 Ω Rated Current :350 mA

NBQ100505T-221Y-N



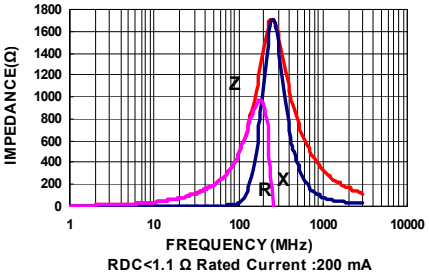
RDC<0.6 Ω Rated Current :200 mA

NBQ100505T-301Y-N



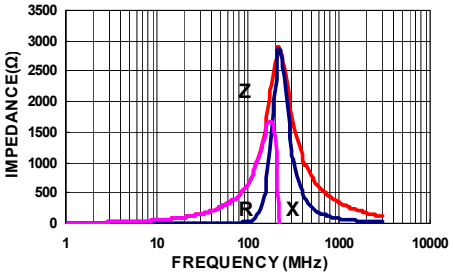
RDC< 0.6 Ω Rated Current :200 mA

NBQ100505T-471Y-N



RDC<1.1 Ω Rated Current :200 mA

NBQ100505T-601Y-N

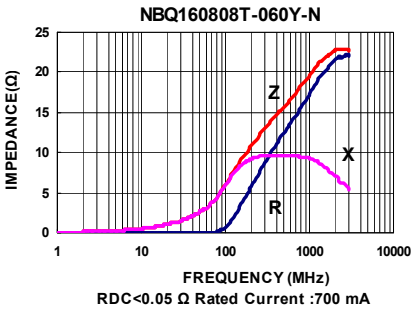


RDC<1.2 Ω Rated Current :200 mA

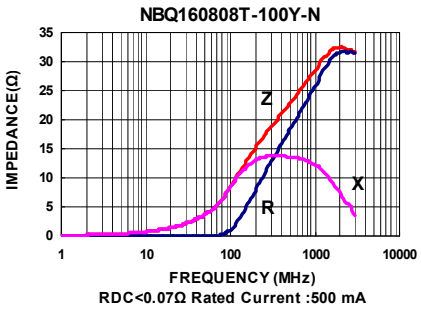
Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
NBQ160808T-060Y-N	100	6±30%	0.05	700
NBQ160808T-100Y-N	100	10±30%	0.07	500
NBQ160808T-220Y-N	100	22	0.20	500
NBQ160808T-600Y-N	100	60	0.25	500
NBQ160808T-750Y-N	100	75	0.25	500
NBQ160808T-121Y-N	100	120	0.30	400
NBQ160808T-241Y-N	100	240	0.35	400
NBQ160808T-301Y-N	100	300	0.40	400
NBQ160808T-601Y-N	100	600	0.50	200
NBQ160808T-102Y-N	100	1000	0.60	200
NBQ160808T-122Y-N	100	1200	0.60	100
NBQ160808T-152Y-N	100	1500	0.70	100
NBQ160808T-182Y-N	100	1800	0.80	100
NBQ160808T-222Y-N	100	2200	1.0	100
NBQ160808T-252Y-N	100	2500	1.0	100

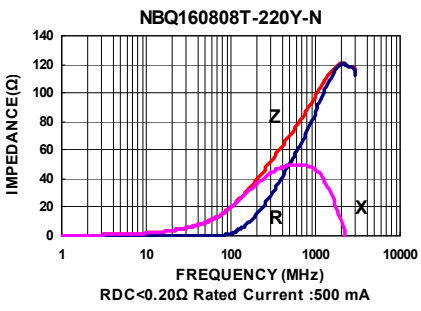
Test Instruments：Agilent E4991A Impedance / Material Analyzer



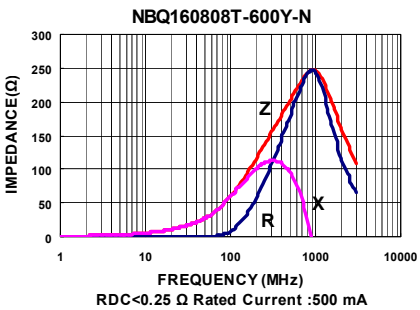
RDC<0.05 Ω Rated Current :700 mA



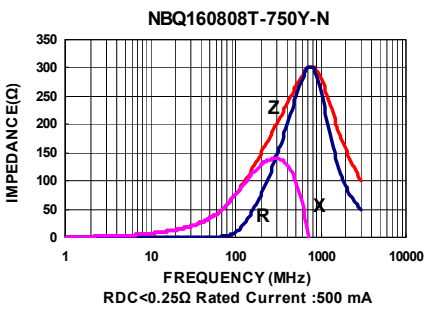
RDC<0.07Ω Rated Current :500 mA



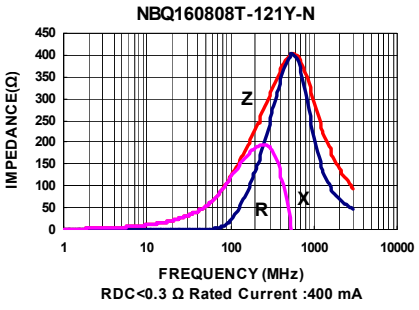
RDC<0.20Ω Rated Current :500 mA



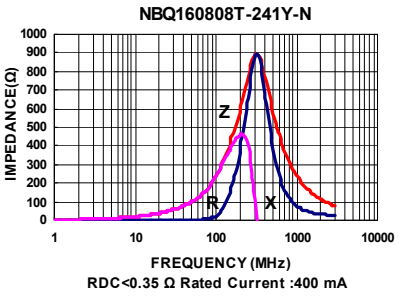
RDC<0.25 Ω Rated Current :500 mA



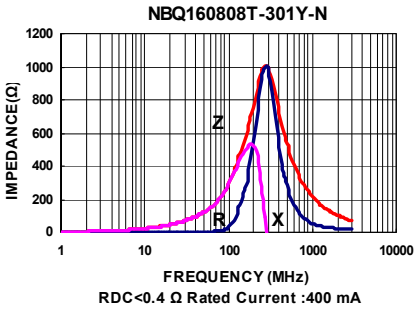
RDC<0.25Ω Rated Current :500 mA



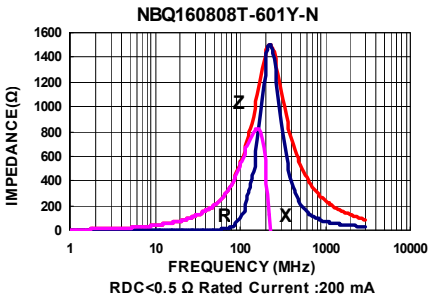
RDC<0.3 Ω Rated Current :400 mA



RDC<0.35 Ω Rated Current :400 mA

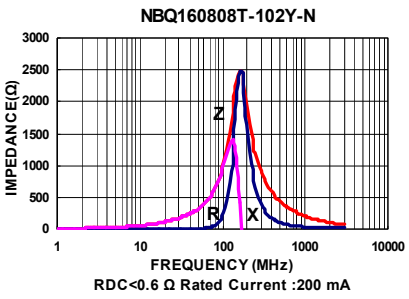


RDC<0.4 Ω Rated Current :400 mA

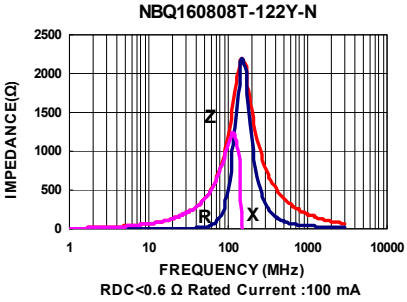


RDC<0.5 Ω Rated Current :200 mA

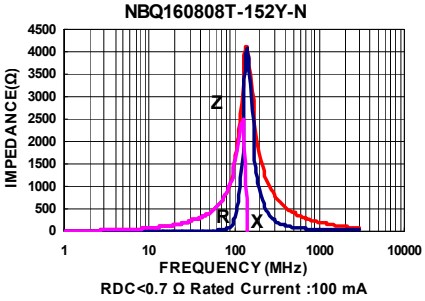
Test Instruments：Agilent E4991A Impedance / Material Analyzer



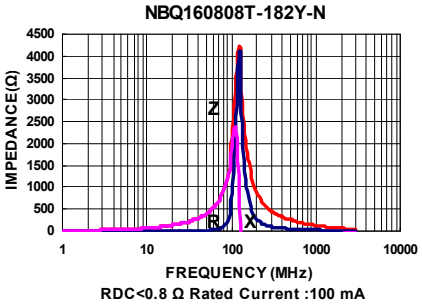
RDC<0.6 Ω Rated Current :200 mA



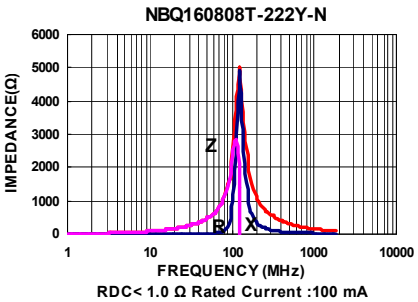
RDC<0.6 Ω Rated Current :100 mA



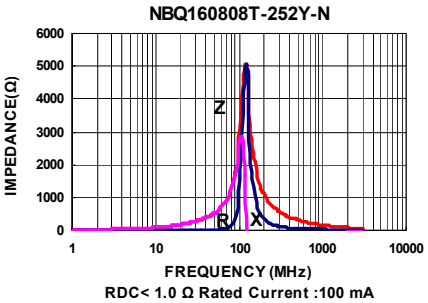
RDC<0.7 Ω Rated Current :100 mA



RDC<0.8 Ω Rated Current :100 mA



RDC< 1.0 Ω Rated Current :100 mA



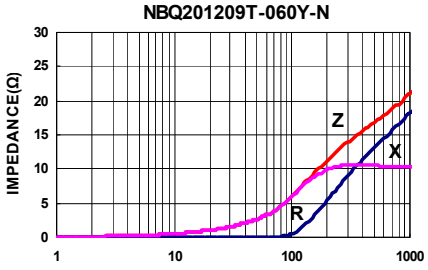
RDC< 1.0 Ω Rated Current :100 mA

Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
NBQ201209T-060Y-N	100	6±30%	0.07	800
NBQ201209T-110Y-N	100	11±30%	0.10	700
NBQ201209T-260Y-N	100	26	0.15	600
NBQ201209T-320Y-N	100	32	0.15	600
NBQ201209T-600Y-N	100	60	0.15	500
NBQ201209T-750Y-N	100	75	0.15	500
NBQ201209T-121Y-N	100	120	0.20	500
NBQ201209T-221Y-N	100	220	0.30	500
NBQ201209T-301Y-N	100	300	0.30	500
NBQ201209T-601Y-N	100	600	0.35	500
NBQ201209T-102Y-N	100	1000	0.40	400
NBQ201209T-122Y-N	100	1200	0.45	400
NBQ201209T-152Y-N	100	1500	0.45	400
NBQ201209T-222Y-N	100	2200	0.50	400
NBQ201209T-272Y-N	100	2700	0.60	200

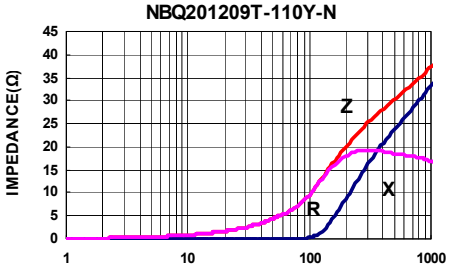
Test Instruments：Agilent E4991A Impedance / Material Analyzer

NBQ201209T-060Y-N



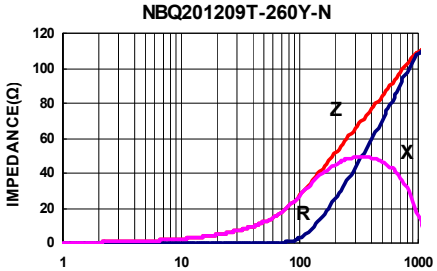
RDC<0.07 Ω Rated Current :800 mA

NBQ201209T-110Y-N



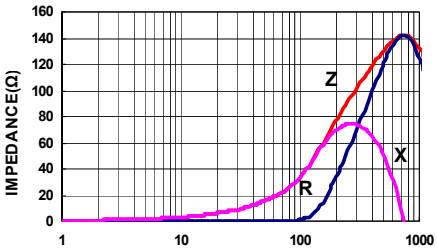
RDC<0.10 Ω Rated Current :700 mA

NBQ201209T-260Y-N



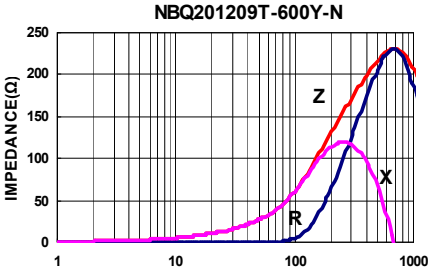
RDC<0.15 Ω Rated Current :600 mA

NBQ201209T-320Y-N



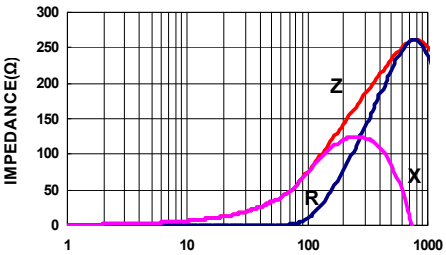
RDC<0.15 Ω Rated Current :600 mA

NBQ201209T-600Y-N



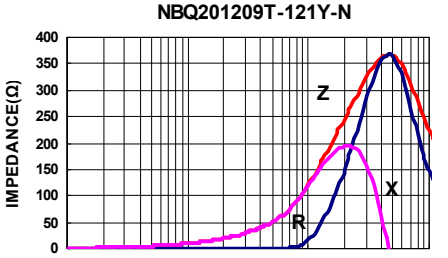
RDC<0.15 Ω Rated Current :500 mA

NBQ201209T-750Y-N



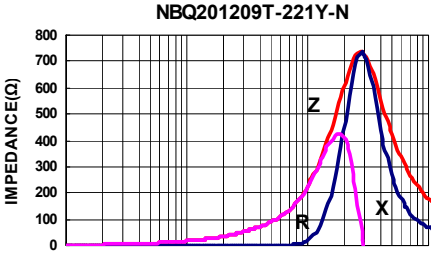
RDC<0.15 Ω Rated Current :500 mA

NBQ201209T-121Y-N



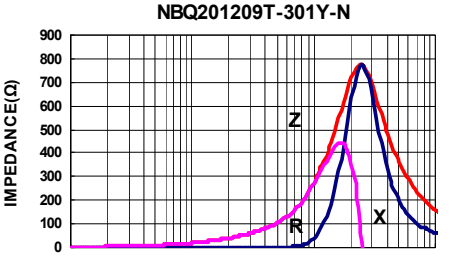
RDC<0.2 Ω Rated Current :500 mA

NBQ201209T-221Y-N



RDC<0.3Ω Rated Current :500 mA

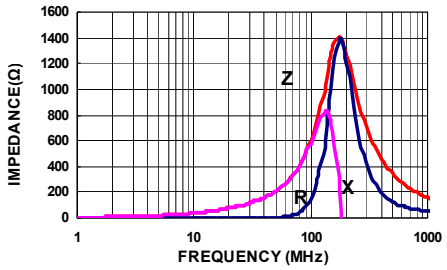
NBQ201209T-301Y-N



RDC<0.3Ω Rated Current :500 mA

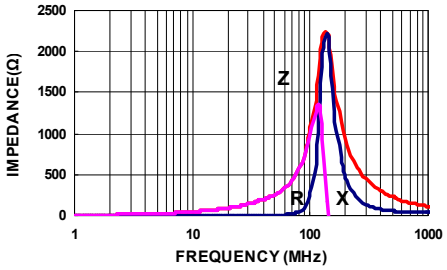
est Instruments：Agilent E4991A Impedance / Material Analyzer

NBQ201209T-601Y-N



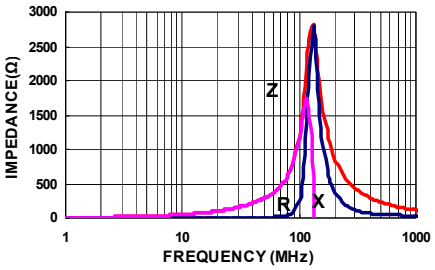
RDC<0.35Ω Rated Current :500 mA

NBQ201209T-102Y-N



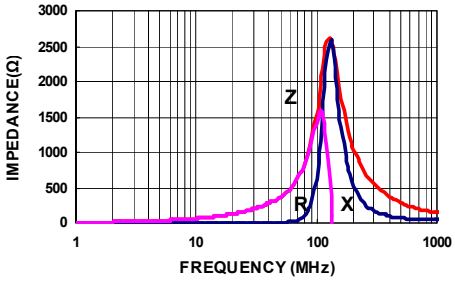
RDC<0.4Ω Rated Current :400 mA

NBQ201209T-122Y-N



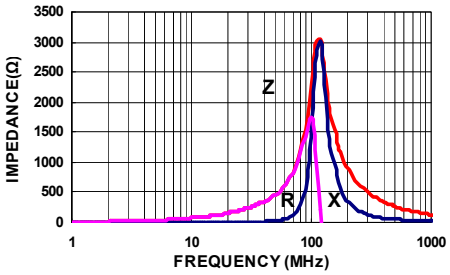
RDC<0.45Ω Rated Current :400 mA

NBQ201209T-152Y-N



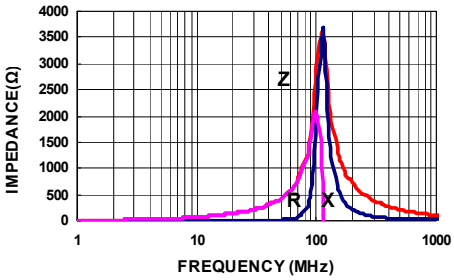
RDC<0.45Ω Rated Current :400 mA

NBQ201209T-222Y-N



RDC<0.5Ω Rated Current :400 mA

NBQ201209T-272Y-N

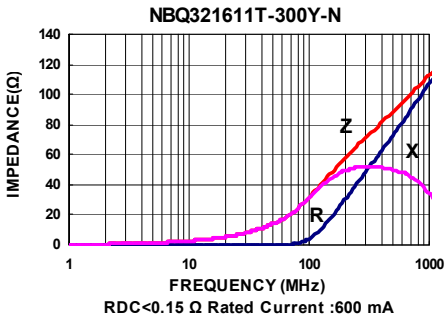


RDC<0.6Ω Rated Current :200 mA

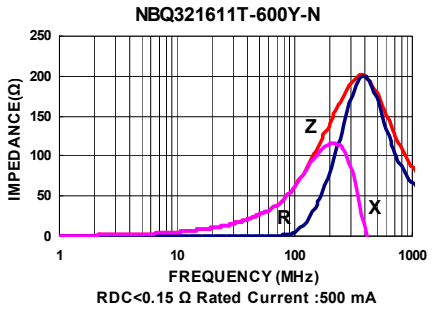
Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
NBQ321611T-150Y-N	100	15	0.15	600
NBQ321611T-300Y-N	100	30	0.15	600
NBQ321611T-600Y-N	100	60	0.15	500
NBQ321611T-900Y-N	100	90	0.15	500
NBQ321611T-121Y-N	100	120	0.20	500
NBQ321611T-201Y-N	100	200	0.25	400
NBQ321611T-221Y-N	100	220	0.30	400
NBQ321611T-301Y-N	100	300	0.30	400
NBQ321611T-601Y-N	100	600	0.35	400
NBQ321611T-122Y-N	100	1200	0.40	300
NBQ321611T-152Y-N	100	1500	0.45	300

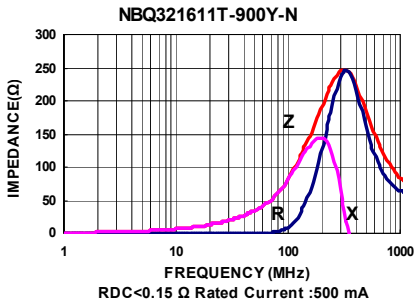
Test Instruments：Agilent E4991A Impedance / Material Analyzer



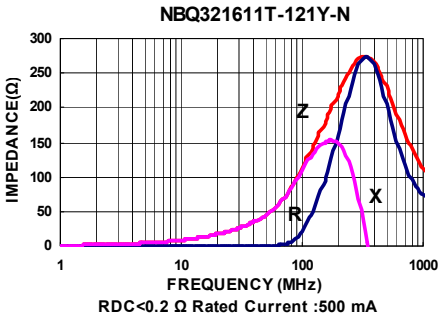
RDC<0.15 Ω Rated Current :600 mA



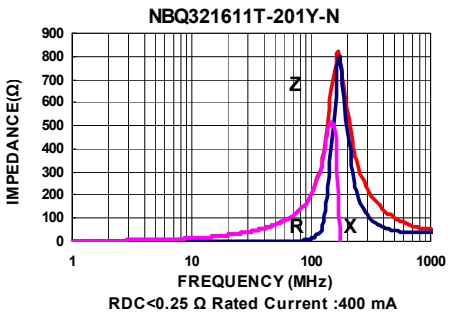
RDC<0.15 Ω Rated Current :500 mA



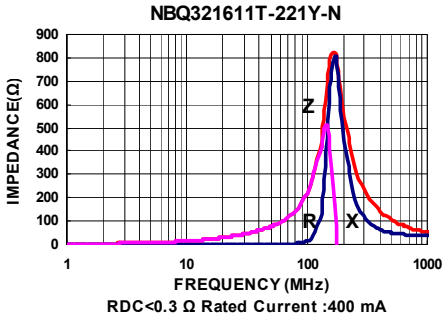
RDC<0.15 Ω Rated Current :500 mA



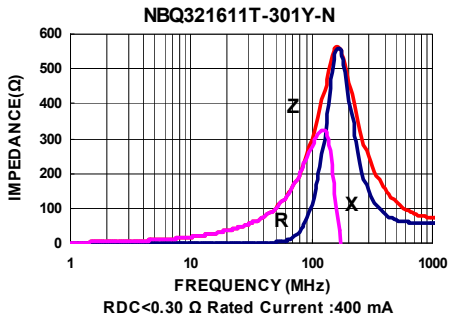
RDC<0.2 Ω Rated Current :500 mA



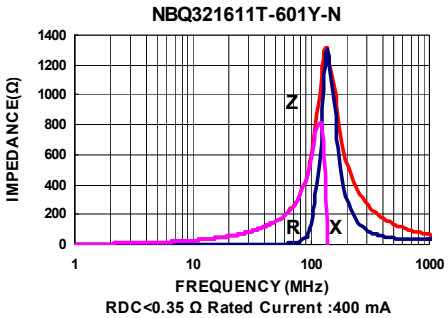
RDC<0.25 Ω Rated Current :400 mA



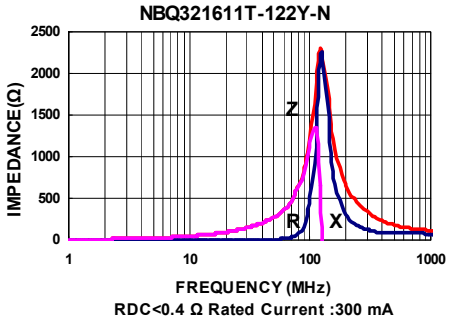
RDC<0.3 Ω Rated Current :400 mA



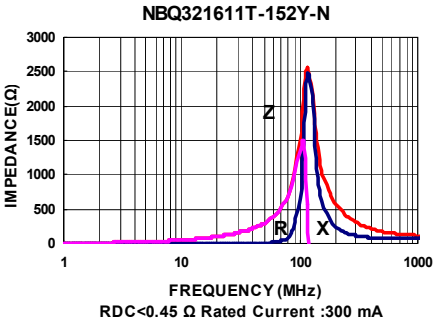
RDC<0.30 Ω Rated Current :400 mA



RDC<0.35 Ω Rated Current :400 mA

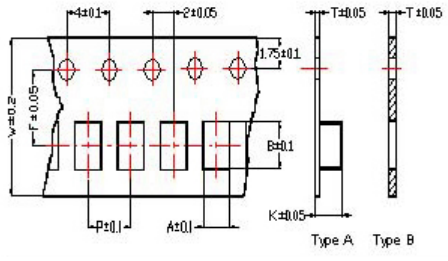


RDC<0.4 Ω Rated Current :300 mA

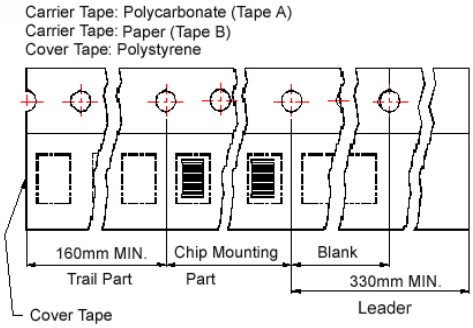

NBQ321611T-152Y-N
IMPEDANCE(Ω)
3000
2500
2000
1500
1000
500
0
1
10
100
1000
Z
R
X
FREQUENCY (MHz)
RDC<0.45 Ω Rated Current :300 mA

Packaging Specifications

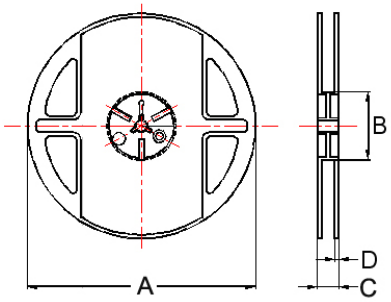
Tape Dimensions



Tape Material



Reel Dimensions



① : SB / PB / NB ② : SB / PB / NB / HF ⑦ : SB / PB
③ : SB / PB / NB / GB / UPB / HF / VPB ⑤ : UPB
④ : SB / PB / NB / GB / UPB ⑥ : SB ⑧ : PB / UPB

Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
①060303	0.38	0.67	0.45	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.65	1.15	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
④201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201212	1.35	2.25	0.22	8.0	4.0	3.5	1.35	A	178	60	12	2	3000
④321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑥321616	1.88	3.53	0.22	8.0	4.0	3.5	1.80	A	178	60	12	2	2000
⑦322513	2.77	3.42	0.22	8.0	4.0	3.5	1.55	A	178	60	12	2	2500
⑧451616	1.93	4.95	0.24	12	4.0	5.5	1.93	A	178	60	14	2	2000
⑧453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000

Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: SB, GB, PB, UPB, NB, HF, and VPB series.

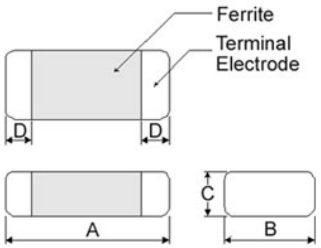
Product Identification

□□□ □□□□□□ □–□□□□–□

- CEC Internal No.
- Tolerance
- Impedance
- Packaging Style
- Dimensions(A、B、C)
- Design code
- Product Symbol

- Product symbol: SB, GB, PB, UPB, NB, HF, VPB
- Packaging: T：Tape and Reel；B：Bulk
- Tolerance: Y = ± 25%; M = ± 20%; T:±30%
- Note: RoHS Compliant

Shape and Dimensions

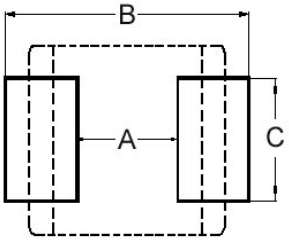


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
④201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑤201212	2.0±0.20	1.25±0.20	1.25±0.20	0.5±0.3
④321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑥321616	3.2±0.20	1.60±0.20	1.6±0.20	0.5±0.3
⑦322513	3.2±0.20	2.50±0.20	1.3±0.20	0.5±0.3
⑧451616	4.5±0.25	1.60±0.20	1.6±0.20	0.5±0.3
⑧453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

①：SB / PB / NB ②：SB / PB / NB / HF ⑦：SB / PB
③：SB / PB / NB / GB / UPB / HF / VPB ⑤：UPB ⑥：SB
④：SB / PB / NB / GB / UPB ⑧：PB / UPB

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
⑤201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
④321611	2.0	4.2 ~ 5.2	1.2
⑥321616	2.0	4.2 ~ 5.2	1.2
⑦322513	2.0	5.5 ~ 6.5	1.8
⑧451616	3.0	5.5 ~ 6.5	1.2
⑧453215	3.0	5.5 ~ 6.5	2.4

＊ Don't apply narrower pattern than listed above to PBY and UPB. Narrow pattern might cause excessive heat or open circuit.

Dimension Conversion

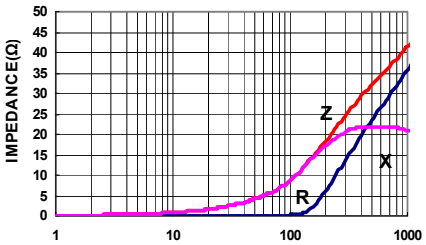
Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
201212	2.0x1.2x1.25	0805
321611	3.2x1.6x.1.1	1206
321616	3.2x1.6x1.6	1206
322513	3.2x2.5x1.3	1210
451616	4.5x1.6x1.6	1806
453215	4.5x3.2x1.5	1812

Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
NBI100505T-100Y-N	100	10±30%	0.11	500
NBI100505T-220Y-N	100	22	0.18	400
NBI100505T-300Y-N	100	30	0.25	400
NBI100505T-330Y-N	100	33	0.30	400
NBI100505T-470Y-N	100	47	0.30	400
NBI100505T-750Y-N	100	75	0.45	350
NBI100505T-121Y-N	100	120	0.50	350
NBI100505T-241Y-N	100	240	0.70	250

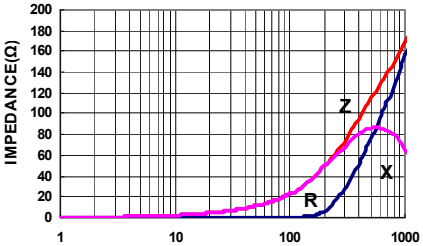
Test Instruments：Agilent E4991A Impedance / Material Analyzer

NBI100505T-100Y-N



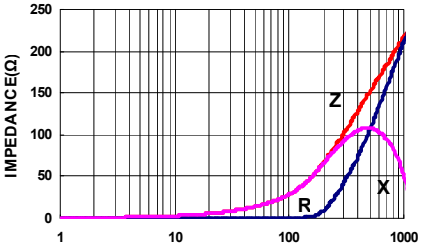
RDC<0.11 Ω Rated Current :500 mA

NBI100505T-220Y-N



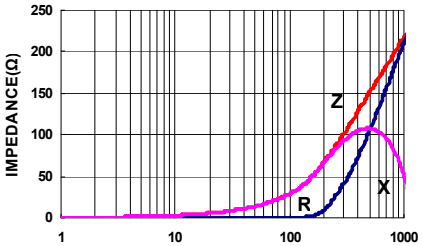
RDC<0.18 Ω Rated Current :400 mA

NBI100505T-300Y-N



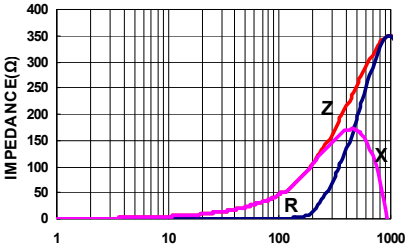
RDC<0.25 Ω Rated Current :400 mA

NBI100505T-330Y-N



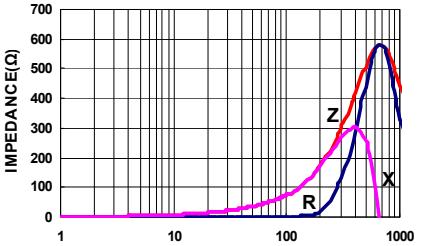
RDC<0.3 Ω Rated Current :400 mA

NBI100505T-470Y-N



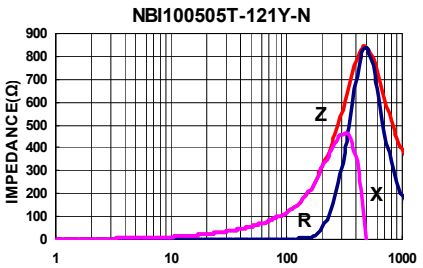
RDC<0.3 Ω Rated Current :400 mA

NBI100505T-750Y-N



RDC<0.45 Ω Rated Current :350 mA

NBI100505T-121Y-N



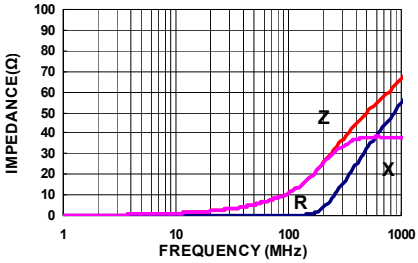
RDC<0.5 Ω Rated Current :350 mA

Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
NBI160808T-100Y-N	100	10±30%	0.15	500
NBI160808T-260Y-N	100	26	0.20	500
NBI160808T-300Y-N	100	30	0.20	500
NBI160808T-470Y-N	100	47	0.30	500
NBI160808T-680Y-N	100	68	0.33	450
NBI160808T-750Y-N	100	75	0.35	400
NBI160808T-101Y-N	100	100	0.40	400
NBI160808T-121Y-N	100	120	0.45	400
NBI160808T-181Y-N	100	180	0.60	300
NBI160808T-221Y-N	100	220	0.60	300
NBI160808T-241Y-N	100	240	0.60	300
NBI160808T-301Y-N	100	300	0.70	300
NBI160808T-501Y-N	100	500	0.90	200

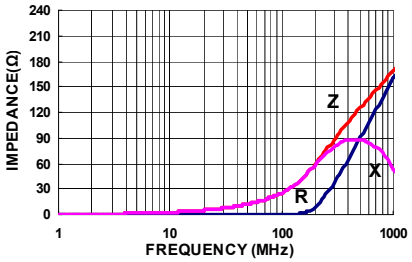
Test Instruments：Agilent E4991A Impedance / Material Analyzer

NBI160808T-100Y-N



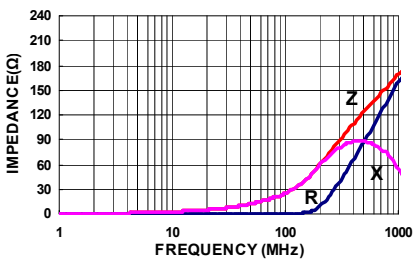
RDC<0.15 Ω Rated Current :500 mA

NBI160808T-260Y-N



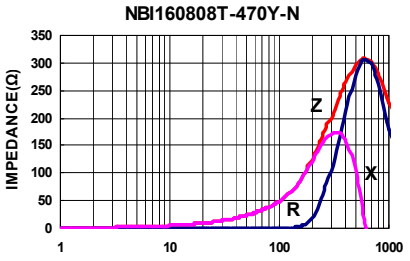
RDC<0.2 Ω Rated Current :500 mA

NBI160808T-300Y-N



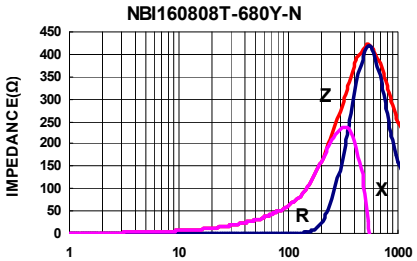
RDC<0.2 Ω Rated Current :500 mA

NBI160808T-470Y-N



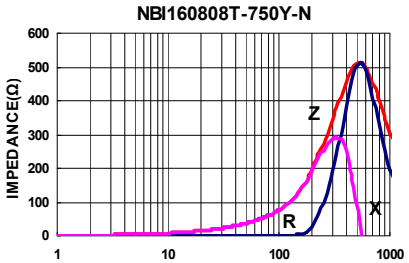
RDC<0.3 Ω Rated Current :500 mA

NBI160808T-680Y-N



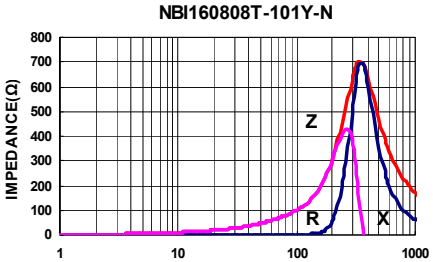
RDC<0.33 Ω Rated Current :450 mA

NBI160808T-750Y-N



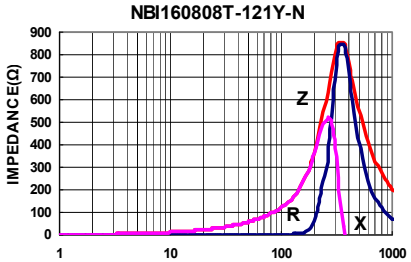
RDC<0.35 Ω Rated Current :400 mA

NBI160808T-101Y-N



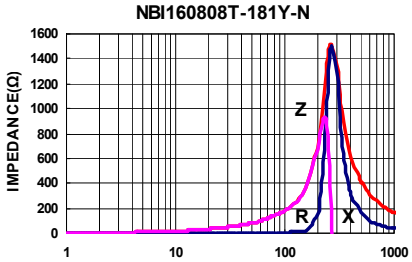
RDC<0.4 Ω Rated Current :400 mA

NBI160808T-121Y-N



RDC<0.45 Ω Rated Current :400 mA

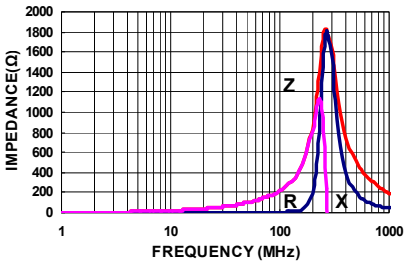
NBI160808T-181Y-N



RDC<0.6 Ω Rated Current :300 mA

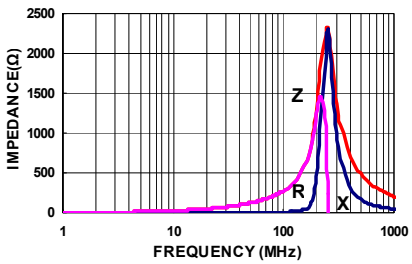
Test Instruments：Agilent E4991A Impedance / Material Analyzer

NBI160808T-221Y-N



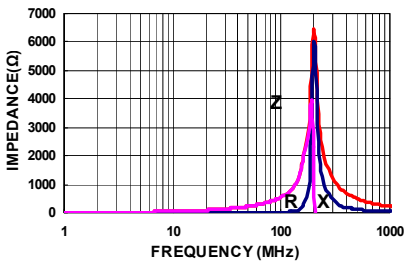
RDC<0.6 Ω Rated Current :300 mA

NBI160808T-301Y-N



RDC<0.7 Ω Rated Current :300 mA

NBI160808T-501Y-N

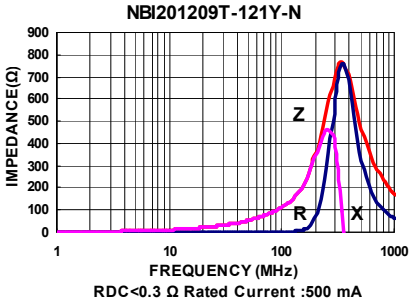


RDC<0.9 Ω Rated Current :200 mA

Electrical Characteristics

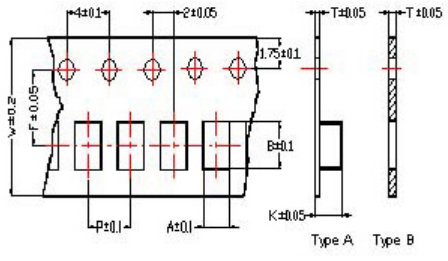
Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
NBI201209T-800Y-N	100	80	0.30	500
NBI201209T-121Y-N	100	120	0.30	500
NBI201209T-301Y-N	100	300	0.50	400

Test Instruments：Agilent E4991A Impedance / Material Analyzer

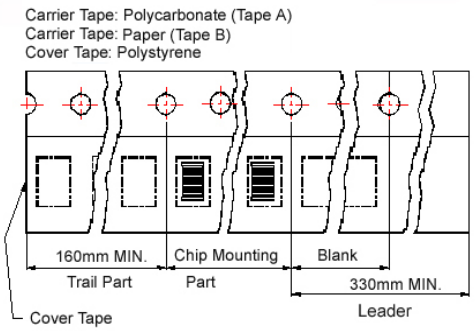


Packaging Specifications

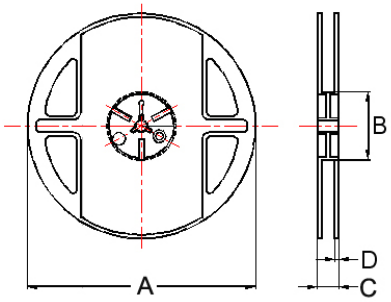
Tape Dimensions



Tape Material



Reel Dimensions



① : SB / PB / NB ② : SB / PB / NB / HF ⑦ : SB / PB
③ : SB / PB / NB / GB / UPB / HF / HP ⑤ : UPB ④ :
SB / PB / NB / GB / UPB ⑥ : SB ⑧ : PB / UPB

Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
①060303	0.38	0.67	0.45	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.65	1.15	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
④201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201212	1.35	2.25	0.22	8.0	4.0	3.5	1.35	A	178	60	12	2	3000
④321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑥321616	1.88	3.53	0.22	8.0	4.0	3.5	1.80	A	178	60	12	2	2000
⑦322513	2.77	3.42	0.22	8.0	4.0	3.5	1.55	A	178	60	12	2	2500
⑧451616	1.93	4.95	0.24	12	4.0	5.5	1.93	A	178	60	14	2	2000
⑧453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000

Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: SB, GB, PB, UPB, NB, HF, and VPB series.

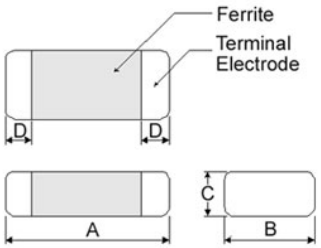
Product Identification

□□□ □□□□□□ □–□□□□–□

- CEC Internal No.
- Tolerance
- Impedance
- Packaging Style
- Dimensions(A、B、C)
- Design code
- Product Symbol

- Product symbol: SB, GB, PB, UPB, NB, HF, VPB
- Packaging: T：Tape and Reel；B：Bulk
- Tolerance: Y = ± 25%; M = ± 20%; T:±30%
- Note: RoHS Compliant

Shape and Dimensions

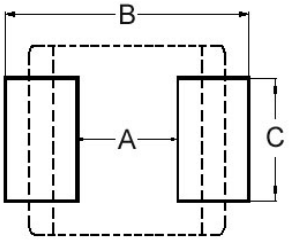


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
④201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑤201212	2.0±0.20	1.25±0.20	1.25±0.20	0.5±0.3
④321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑥321616	3.2±0.20	1.60±0.20	1.6±0.20	0.5±0.3
⑦322513	3.2±0.20	2.50±0.20	1.3±0.20	0.5±0.3
⑧451616	4.5±0.25	1.60±0.20	1.6±0.20	0.5±0.3
⑧453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

①：SB / PB / NB ②：SB / PB / NB / HF ⑦：SB / PB
③：SB / PB / NB / GB / UPB / HF / VPB ⑤：UPB ⑥：SB
④：SB / PB / NB / GB / UPB ⑧：PB / UPB

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
⑤201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
④321611	2.0	4.2 ~ 5.2	1.2
⑥321616	2.0	4.2 ~ 5.2	1.2
⑦322513	2.0	5.5 ~ 6.5	1.8
⑧451616	3.0	5.5 ~ 6.5	1.2
⑧453215	3.0	5.5 ~ 6.5	2.4

＊ Don't apply narrower pattern than listed above to PBY and UPB. Narrow pattern might cause excessive heat or open circuit.

Dimension Conversion

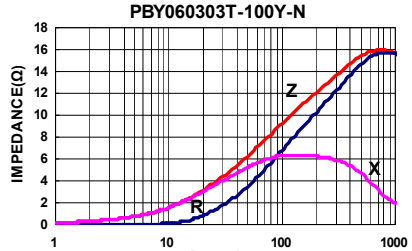
Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
201212	2.0x1.2x1.25	0805
321611	3.2x1.6x.1.1	1206
321616	3.2x1.6x1.6	1206
322513	3.2x2.5x1.3	1210
451616	4.5x1.6x1.6	1806
453215	4.5x3.2x1.5	1812

Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
PBY060303T-100Y-N	100	10±30%	0.050	1000
PBY060303T-220Y-N	100	22	0.065	1000
PBY060303T-330Y-N	100	33	0.090	750
PBY060303T-470Y-N	100	47	0.120	500
PBY060303T-800Y-N	100	80	0.180	500
PBY060303T-121Y-N	100	120	0.230	450
PBY060303T-241Y-N	100	240	0.400	350

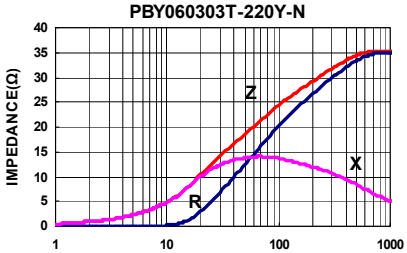
Test Instruments：Agilent E4991A Impedance / Material Analyzer

PBY060303T-100Y-N



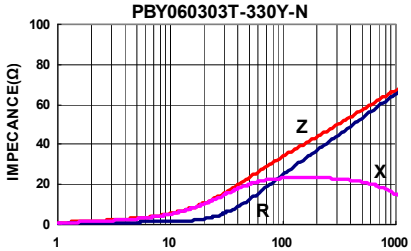
RDC<0.05 Ω Rated Current :1000 mA

PBY060303T-220Y-N



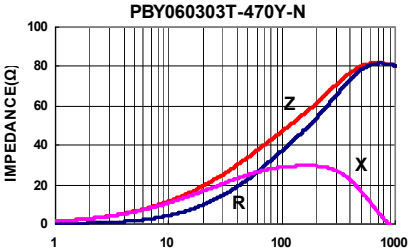
RDC<0.065 Ω Rated Current :1000 mA

PBY060303T-330Y-N



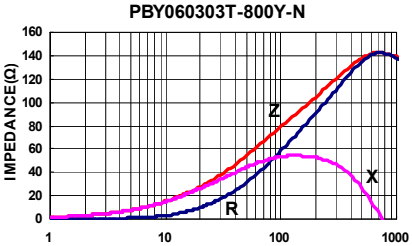
RDC<0.09 Ω Rated Current :750 mA

PBY060303T-470Y-N



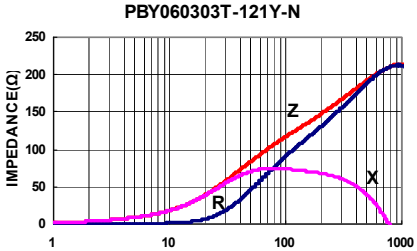
RDC<0.12 Ω Rated Current :500 mA

PBY060303T-800Y-N



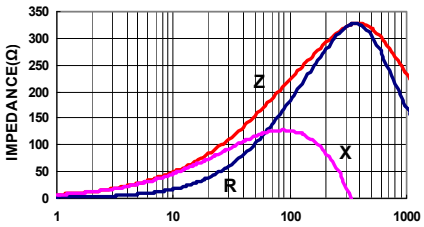
RDC<0.18 Ω Rated Current :500 mA

PBY060303T-121Y-N



RDC<0.23 Ω Rated Current :450 mA

PBY060303T-241Y-N

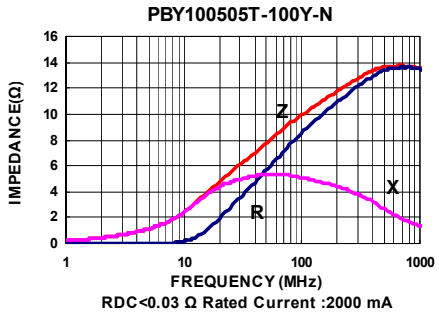


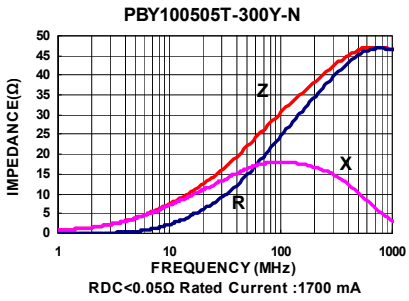
RDC<0.4 Ω Rated Current :350 mA

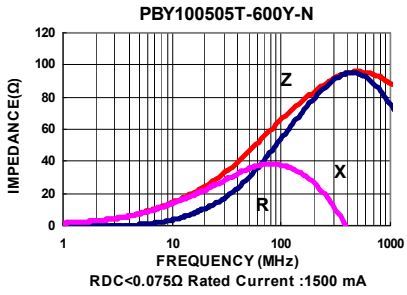
Electrical Characteristics

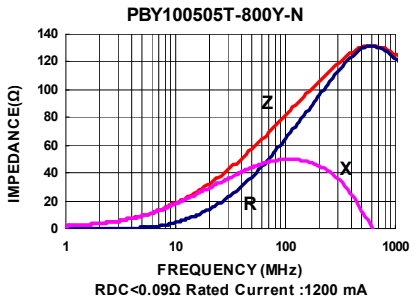
Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
PBY100505T-100Y-N	100	10±30%	0.03	2000
PBY100505T-300Y-N	100	30	0.05	1700
PBY100505T-600Y-N	100	60	0.075	1500
PBY100505T-800Y-N	100	80	0.09	1200
PBY100505T-121Y-N	100	120	0.09	1200
PBY100505T-151Y-N	100	150	0.14	900
PBY100505T-221Y-N	100	220	0.18	580
PBY100505T-601Y-N	100	600	0.34	420
PBY100505T-102Y-N	100	1000	0.49	350

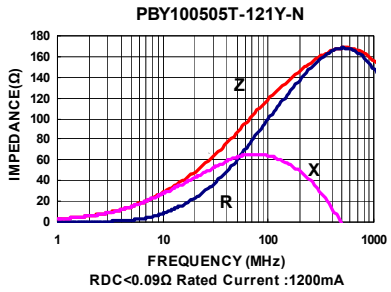
Test Instruments：Agilent E4991A Impedance / Material Analyzer

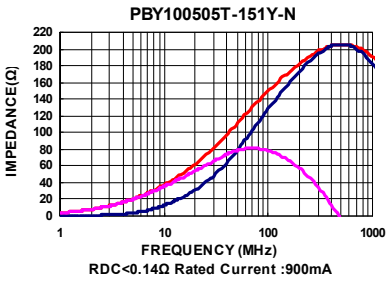


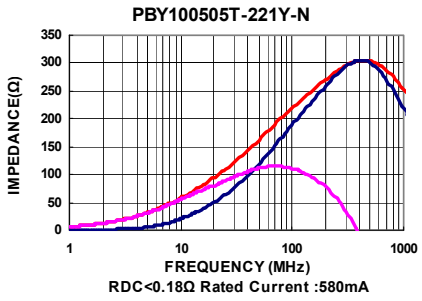








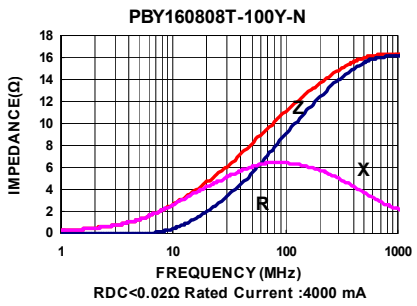




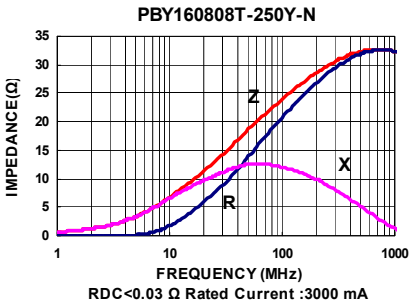
Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
PBY160808T-100Y-N	100	10±30%	0.020	4000
PBY160808T-250Y-N	100	25	0.030	3000
PBY160808T-400Y-N	100	40	0.035	3000
PBY160808T-600Y-N	100	60	0.040	3000
PBY160808T-121Y-N	100	120	0.080	2500
PBY160808T-151Y-N	100	150	0.085	2000
PBY160808T-181Y-N	100	180	0.090	2000
PBY160808T-221Y-N	100	220	0.095	2000
PBY160808T-301Y-N	100	300	0.120	1500
PBY160808T-471Y-N	100	470	0.150	1200
PBY160808T-601Y-N	100	600	0.200	1000
PBY160808T-102Y-N	100	1000	0.250	800
PBY160808T-122Y-N	100	1200	0.250	800
PBY160808T-152Y-N	100	1500	0.400	500

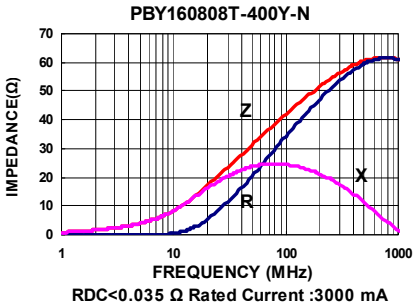
Test Instruments：Agilent E4991A Impedance / Material Analyzer



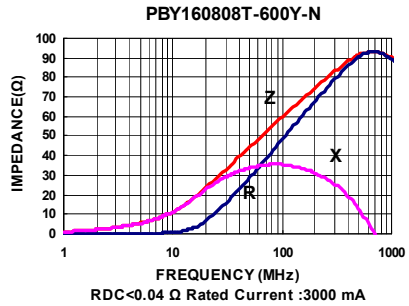
RDC<0.02Ω Rated Current :4000 mA



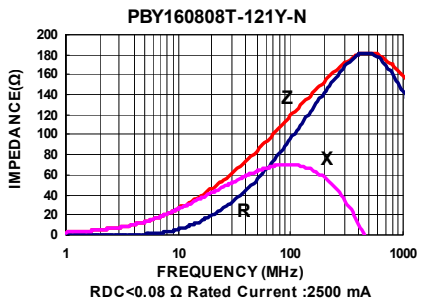
RDC<0.03 Ω Rated Current :3000 mA



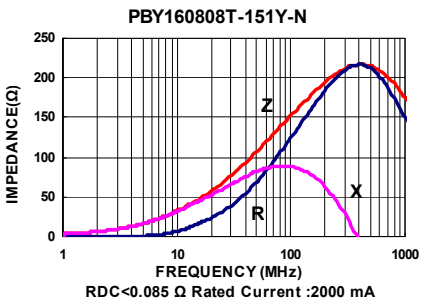
RDC<0.035 Ω Rated Current :3000 mA



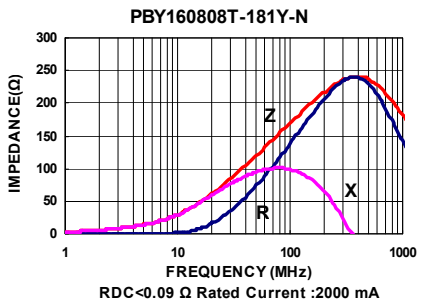
RDC<0.04 Ω Rated Current :3000 mA



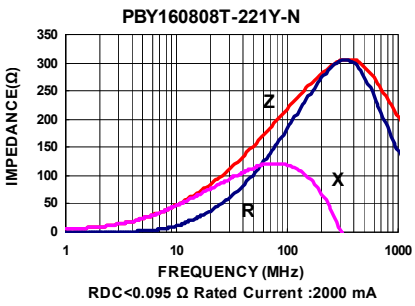
RDC<0.08 Ω Rated Current :2500 mA



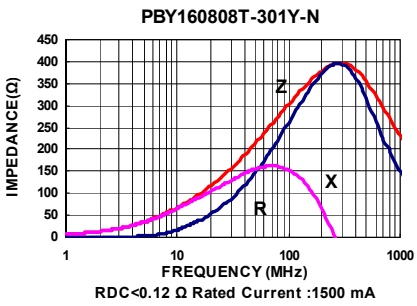
RDC<0.085 Ω Rated Current :2000 mA



RDC<0.09 Ω Rated Current :2000 mA

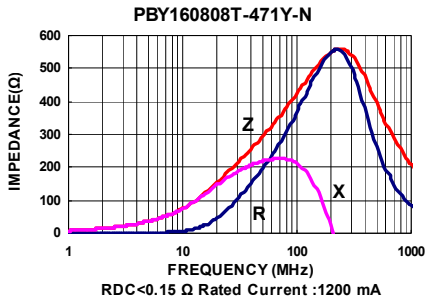


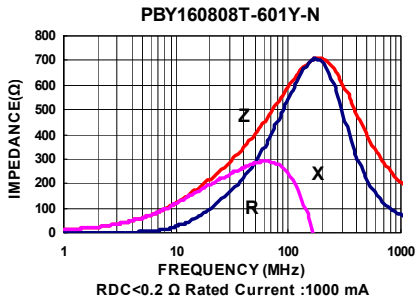
RDC<0.095 Ω Rated Current :2000 mA

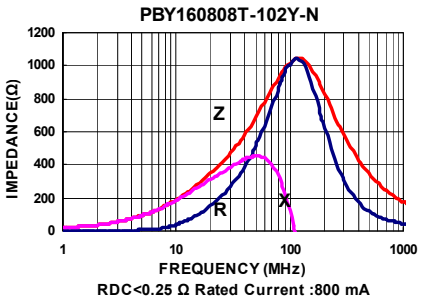


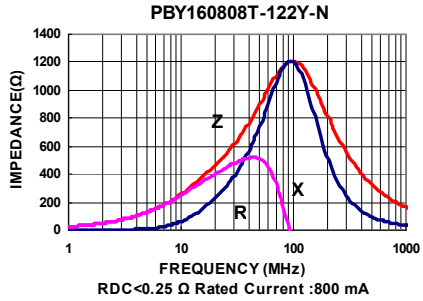
RDC<0.12 Ω Rated Current :1500 mA

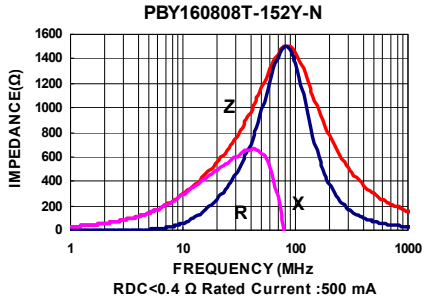
est Instruments：Agilent E4991A Impedance / Material Analyzer









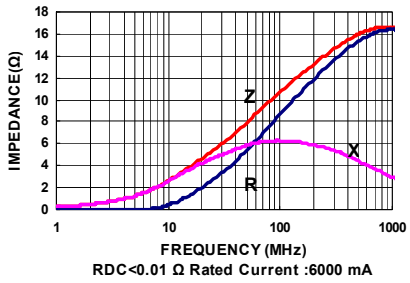


Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
PBY201209T-100Y-N	100	10±30%	0.01	6000
PBY201209T-170Y-N	100	17	0.02	5000
PBY201209T-300Y-N	100	30	0.015	4000
PBY201209T-500Y-N	100	50	0.025	3000
PBY201209T-600Y-N	100	60	0.03	3000
PBY201209T-800Y-N	100	80	0.04	3000
PBY201209T-121Y-N	100	120	0.04	3000
PBY201209T-221Y-N	100	220	0.05	2500
PBY201209T-301Y-N	100	300	0.08	2000
PBY201209T-471Y-N	100	470	0.10	2000
PBY201209T-601Y-N	100	600	0.10	2000
PBY201209T-751Y-N	100	750	0.12	1500
PBY201209T-102Y-N	100	1000	0.12	1500
PBY201209T-152Y-N	100	1500	0.30	1000

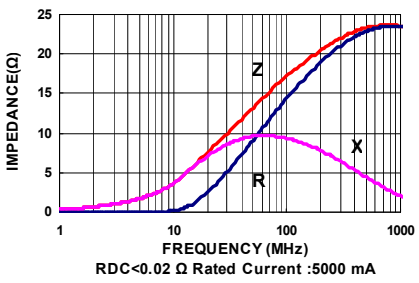
Test Instruments：Agilent E4991A Impedance / Material Analyzer

PBY201209T-100Y-N



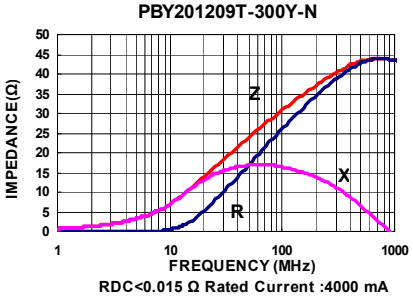
RDC<0.01 Ω Rated Current :6000 mA

PBY201209T-170Y-N



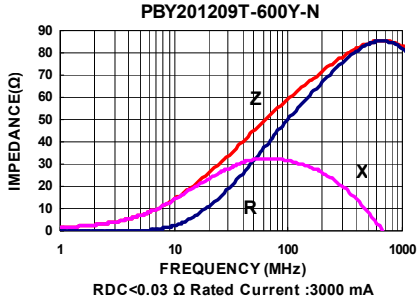
RDC<0.02 Ω Rated Current :5000 mA

PBY201209T-300Y-N



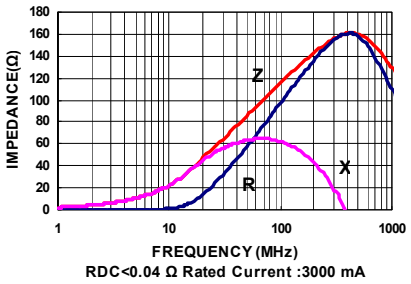
RDC<0.015 Ω Rated Current :4000 mA

PBY201209T-600Y-N



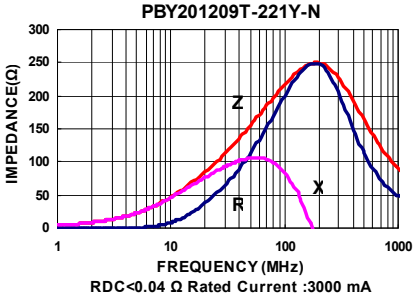
RDC<0.03 Ω Rated Current :3000 mA

PBY201209T-121Y-N



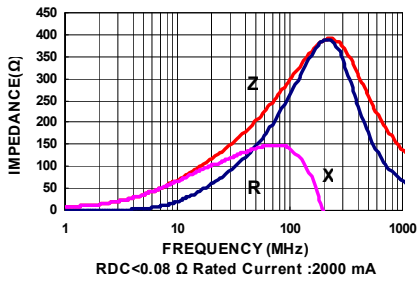
RDC<0.04 Ω Rated Current :3000 mA

PBY201209T-221Y-N



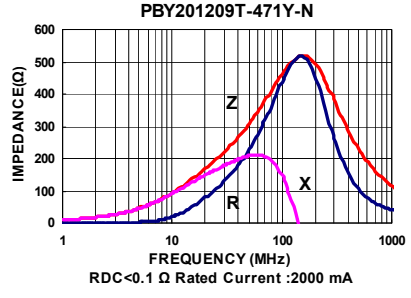
RDC<0.04 Ω Rated Current :3000 mA

PBY201209T-301Y-N



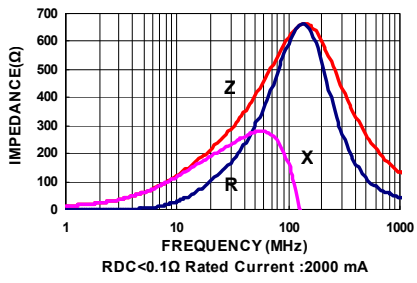
RDC<0.08 Ω Rated Current :2000 mA

PBY201209T-471Y-N



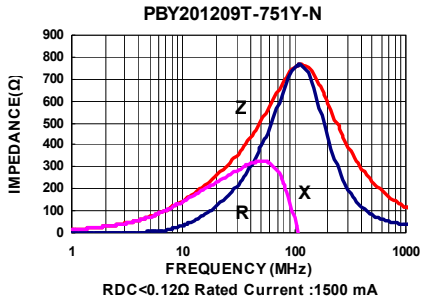
RDC<0.1 Ω Rated Current :2000 mA

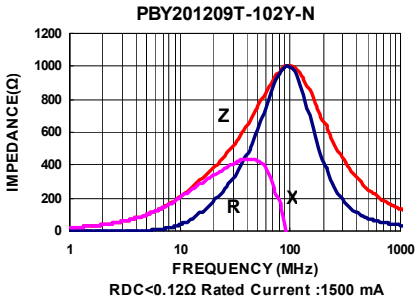
PBY201209T-601Y-N

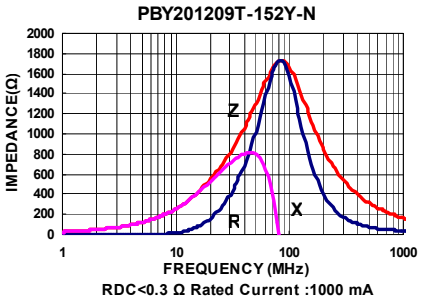


RDC<0.1Ω Rated Current :2000 mA

Test Instruments：Agilent E4991A Impedance / Material Analyzer





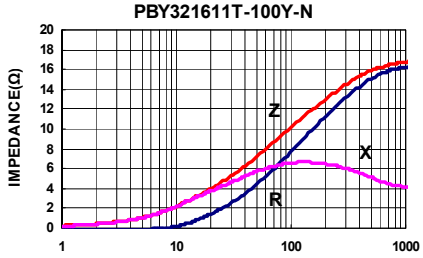


Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
PBY321611T-100Y-N	100	10±30%	0.015	6000
PBY321611T-190Y-N	100	19	0.015	6000
PBY321611T-300Y-N	100	30	0.015	4000
PBY321611T-600Y-N	100	60	0.025	3000
PBY321611T-101Y-N	100	100	0.030	3000
PBY321611T-121Y-N	100	120	0.030	3000
PBY321611T-221Y-N	100	220	0.050	2000
PBY321611T-301Y-N	100	300	0.060	2000
PBY321611T-601Y-N	100	600	0.100	2000
PBY321611T-102Y-N	50	1000	0.150	1200
PBY321611T-122Y-N	50	1200	0.180	1000
PBY321611T-152Y-N	50	1500	0.200	800

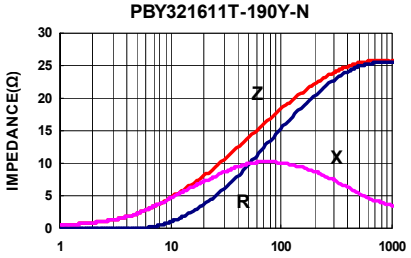
Test Instruments：Agilent E4991A Impedance / Material Analyzer

PBY321611T-100Y-N



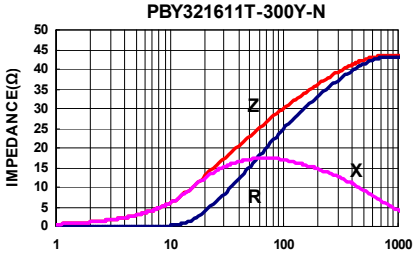
RDC<0.015 Ω Rated Current :6000 mA

PBY321611T-190Y-N



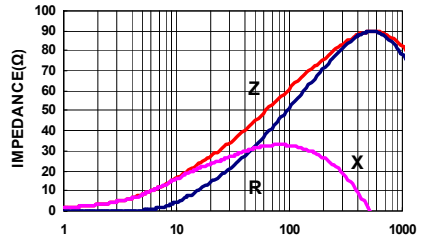
RDC<0.015 Ω Rated Current :6000 mA

PBY321611T-300Y-N



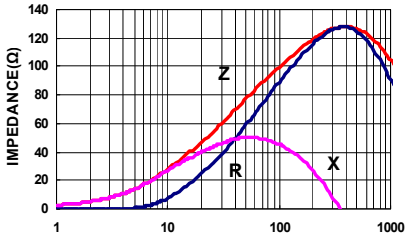
RDC<0.015 Ω Rated Current :4000 mA

PBY321611T-600Y-N



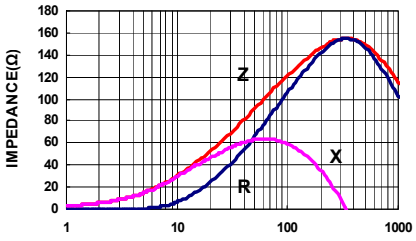
RDC<0.015 Ω Rated Current :4000 mA

PBY321611T-101Y-N



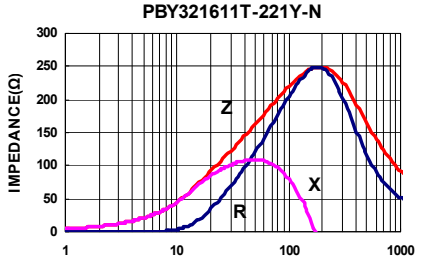
RDC<0.03 Ω Rated Current :3000 mA

PBY321611T-121Y-N



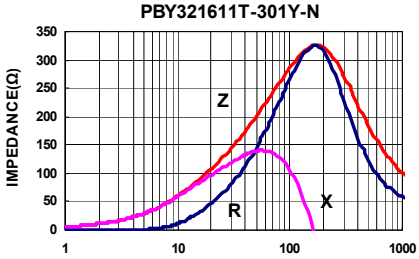
RDC<0.03 Ω Rated Current :3000 mA

PBY321611T-221Y-N



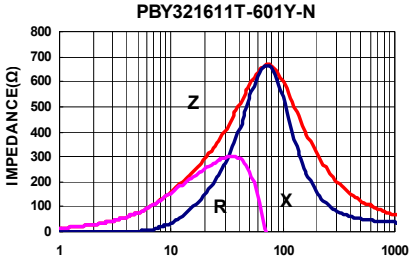
RDC<0.05 Ω Rated Current :2000 mA

PBY321611T-301Y-N



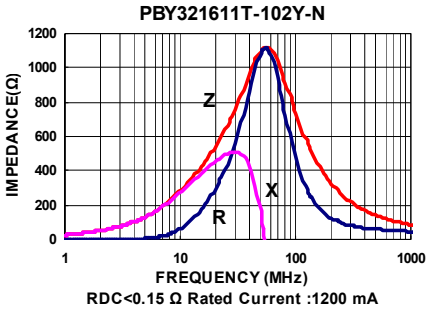
RDC<0.06 Ω Rated Current :2000 mA

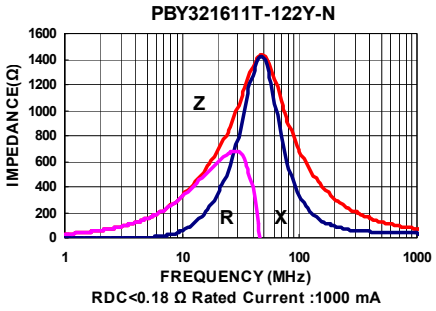
PBY321611T-601Y-N

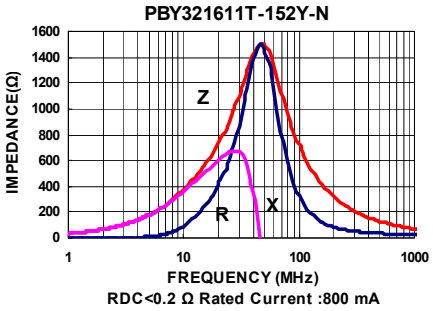


RDC<0.1 Ω Rated Current :2000 mA

Test Instruments：Agilent E4991A Impedance / Material Analyzer



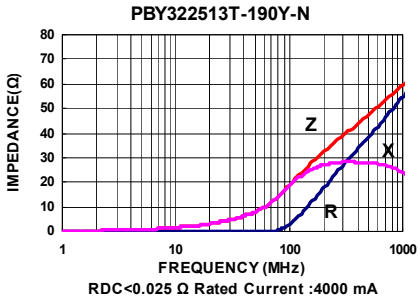


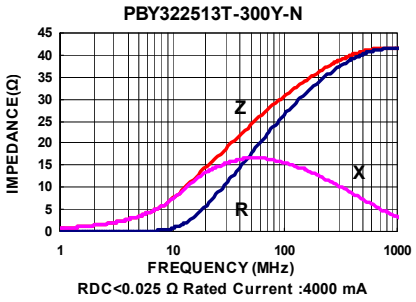


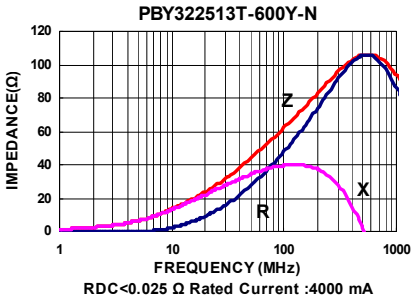
Electrical Characteristics

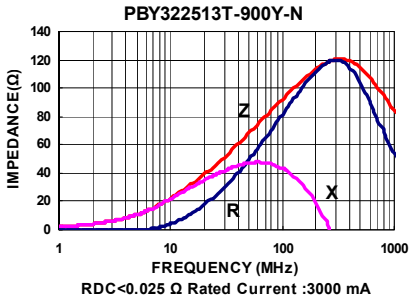
Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
PBY322513T-190Y-N	100	19	0.025	4000
PBY322513T-300Y-N	100	30	0.025	4000
PBY322513T-600Y-N	100	60	0.025	4000
PBY322513T-900Y-N	100	90	0.025	3000
PBY322513T-121Y-N	100	120	0.030	2500

Test Instruments：Agilent E4991A Impedance / Material Analyzer







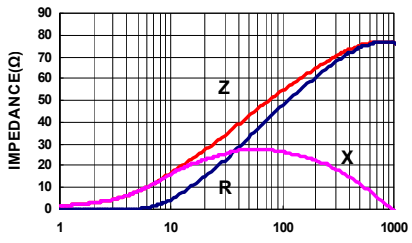


Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
PBY451616T-190Y-N	100	19	0.020	6000
PBY451616T-400Y-N	100	40	0.020	6000
PBY451616T-500Y-N	100	50	0.020	6000
PBY451616T-600Y-N	100	60	0.020	5000
PBY451616T-800Y-N	100	80	0.025	4000
PBY451616T-900Y-N	100	90	0.100	2000

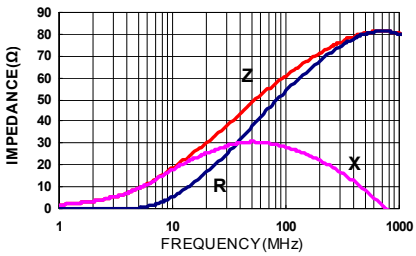
Test Instruments：Agilent E4991A Impedance / Material Analyzer

PBY451616T-500Y-N



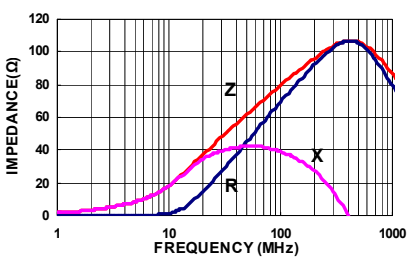
RDC<0.02 Ω Rated Current :6000 mA

PBY451616T-600Y-N



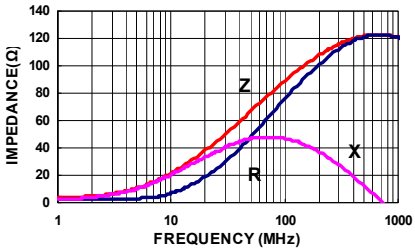
RDC<0.02 Ω Rated Current :5000 mA

PBY451616T-800Y-N



RDC<0.025 Ω Rated Current :4000 mA

PBY451616T-900Y-N



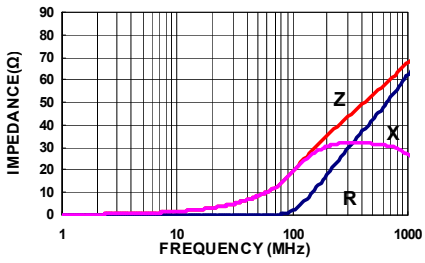
RDC<0.100 Ω Rated Current :2000 mA

Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
PBY453215T-190Y-N	100	19	0.030	6000
PBY453215T-300Y-N	100	30	0.030	6000
PBY453215T-600Y-N	100	60	0.030	6000
PBY453215T-700Y-N	100	70	0.030	6000
PBY453215T-121Y-N	100	120	0.030	4000
PBY453215T-151Y-N	100	150	0.030	4000

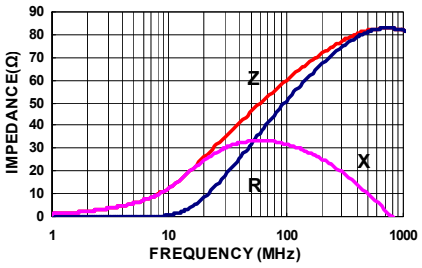
Test Instruments：Agilent E4991A Impedance / Material Analyzer

PBY453215T-190Y-N



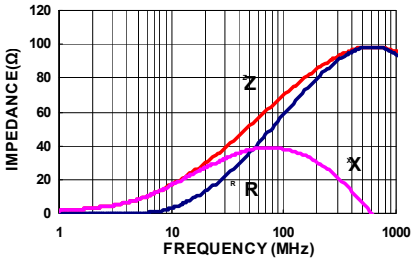
RDC<0.030 Ω Rated Current :6000 mA

PBY453215T-600Y-N



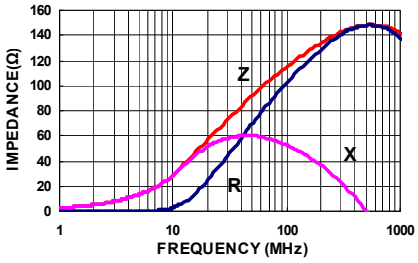
RDC<0.030 Ω Rated Current :6000 mA

PBY453215T-700Y-N



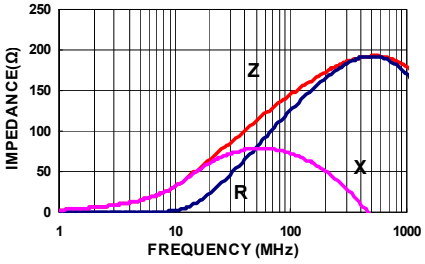
RDC<0.030 Ω Rated Current :6000 mA

PBY453215T-121Y-N



RDC<0.03 Ω Rated Current :4000 mA

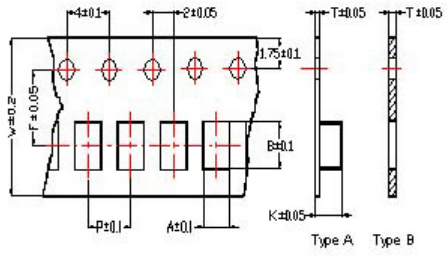
PBY453215T-151Y-N



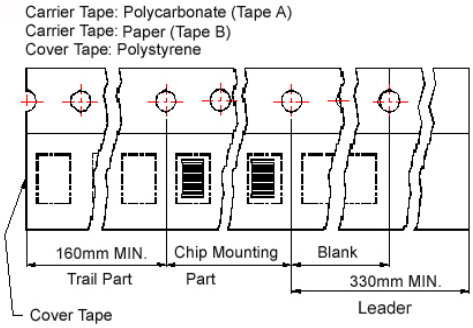
RDC<0.030 Ω Rated Current :4000 mA

Packaging Specifications

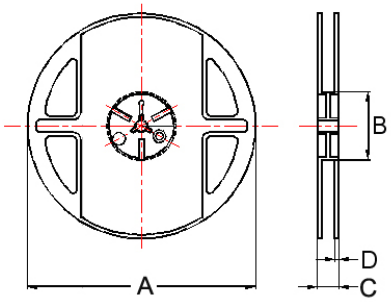
Tape Dimensions



Tape Material



Reel Dimensions



① : SB / PB / NB ② : SB / PB / NB / HF ⑦ : SB / PB
③ : SB / PB / NB / GB / UPB / HF / VPB ⑤ : UPB
④ : SB / PB / NB / GB / UPB ⑥ : SB ⑧ : PB / UPB

Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
①060303	0.38	0.67	0.45	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.65	1.15	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
④201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201212	1.35	2.25	0.22	8.0	4.0	3.5	1.35	A	178	60	12	2	3000
④321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑥321616	1.88	3.53	0.22	8.0	4.0	3.5	1.80	A	178	60	12	2	2000
⑦322513	2.77	3.42	0.22	8.0	4.0	3.5	1.55	A	178	60	12	2	2500
⑧451616	1.93	4.95	0.24	12	4.0	5.5	1.93	A	178	60	14	2	2000
⑧453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000

Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: SB, GB, PB, UPB, NB, HF, and VPB series.

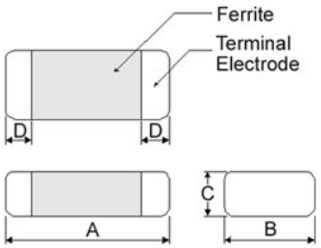
Product Identification

□□□ □□□□□□ □–□□□□–□

- CEC Internal No.
- Tolerance
- Impedance
- Packaging Style
- Dimensions(A、B、C)
- Design code
- Product Symbol

- Product symbol: SB, GB, PB, UPB, NB, HF, VPB
- Packaging: T：Tape and Reel；B：Bulk
- Tolerance: Y = ± 25%; M = ± 20%; T:±30%
- Note: RoHS Compliant

Shape and Dimensions

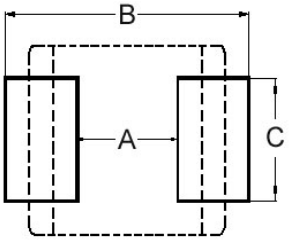


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
④201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑤201212	2.0±0.20	1.25±0.20	1.25±0.20	0.5±0.3
④321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑥321616	3.2±0.20	1.60±0.20	1.6±0.20	0.5±0.3
⑦322513	3.2±0.20	2.50±0.20	1.3±0.20	0.5±0.3
⑧451616	4.5±0.25	1.60±0.20	1.6±0.20	0.5±0.3
⑧453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

①：SB / PB / NB ②：SB / PB / NB / HF ⑦：SB / PB
③：SB / PB / NB / GB / UPB / HF / VPB ⑤：UPB ⑥：SB
④：SB / PB / NB / GB / UPB ⑧：PB / UPB

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
⑤201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
④321611	2.0	4.2 ~ 5.2	1.2
⑥321616	2.0	4.2 ~ 5.2	1.2
⑦322513	2.0	5.5 ~ 6.5	1.8
⑧451616	3.0	5.5 ~ 6.5	1.2
⑧453215	3.0	5.5 ~ 6.5	2.4

＊ Don't apply narrower pattern than listed above to PBY and UPB. Narrow pattern might cause excessive heat or open circuit.

Dimension Conversion

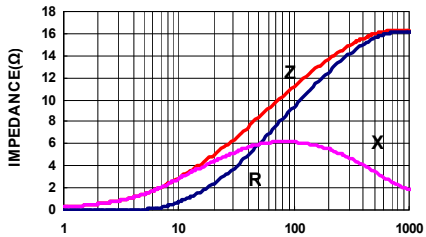
Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
201212	2.0x1.2x1.25	0805
321611	3.2x1.6x.1.1	1206
321616	3.2x1.6x1.6	1206
322513	3.2x2.5x1.3	1210
451616	4.5x1.6x1.6	1806
453215	4.5x3.2x1.5	1812

Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
VPB160808T-100Y-N	100	10	0.010	6000
VPB160808T-300Y-N	100	30	0.015	4000
VPB160808T-600Y-N	100	60	0.030	3000
VPB160808T-700Y-N	100	70	0.040	3000
VPB160808T-800Y-N	100	80	0.040	3000
VPB160808T-121Y-N	100	120	0.040	3000
VPB160808T-201Y-N	100	200	0.050	2500
VPB160808T-221Y-N	100	220	0.080	2000
VPB160808T-301Y-N	100	300	0.080	2000
VPB160808T-331Y-N	100	330	0.080	2000
VPB160808T-471Y-N	100	470	0.100	2000
VPB160808T-601Y-N	100	600	0.100	2000

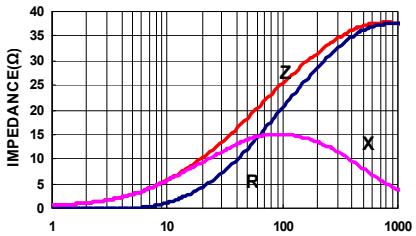
Test Instruments：Agilent E4991A Impedance / Material Analyzer

VPB160808T-100Y-N



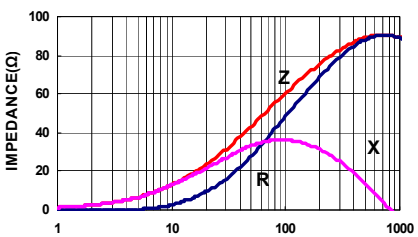
RDC<0.010 Ω Rated Current :6000 mA

VPB160808T-300Y-N



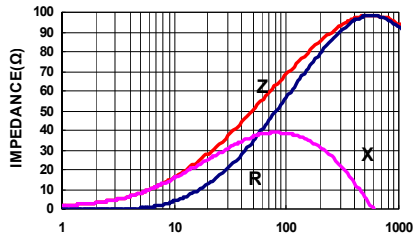
RDC<0.015 Ω Rated Current :4000 mA

VPB160808T-600Y-N



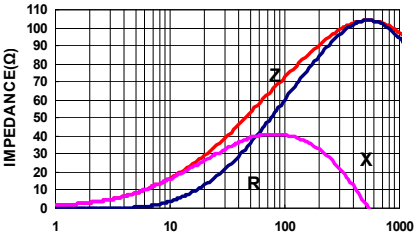
RDC<0.030 Ω Rated Current :3000 mA

VPB160808T-700Y-N



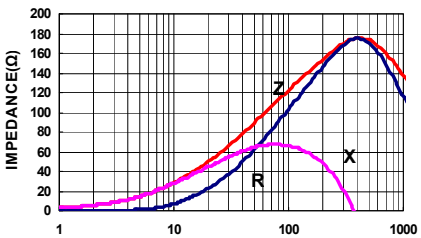
RDC<0.040 Ω Rated Current :300mA

VPB160808T-800Y-N



RDC<0.040 Ω Rated Current :3000 mA

VPB160808T-121Y-N



RDC<0.040 Ω Rated Current :3000 mA

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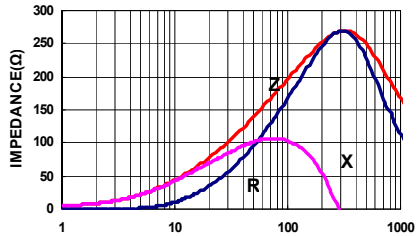
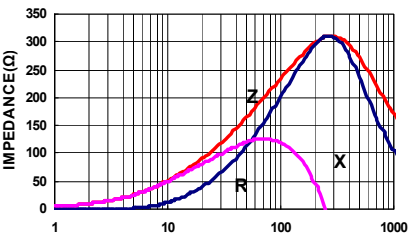


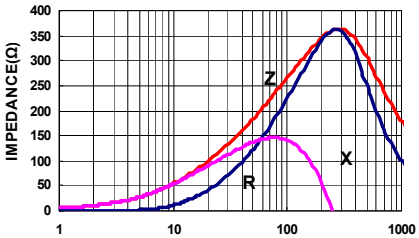
RDC<0.050 Ω Rated Current :2500 mA

VPB160808T-221Y-N



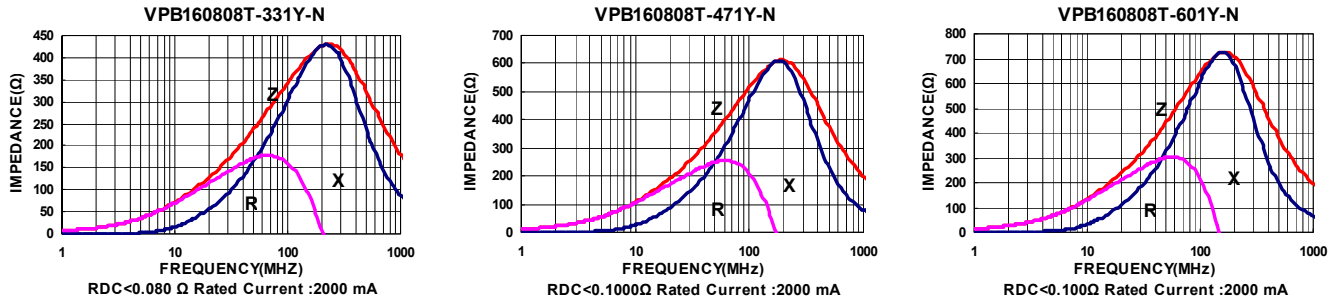
RDC<0.080 Ω Rated Current :2000 mA

VPB160808T-301Y-N



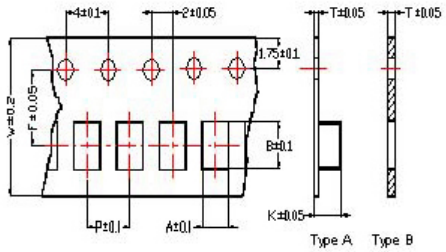
RDC<0.080 Ω Rated Current :2000 mA

Test Instruments：Agilent E4991A Impedance / Material Analyzer

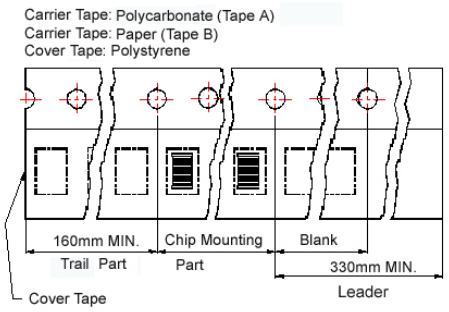


Packaging Specifications

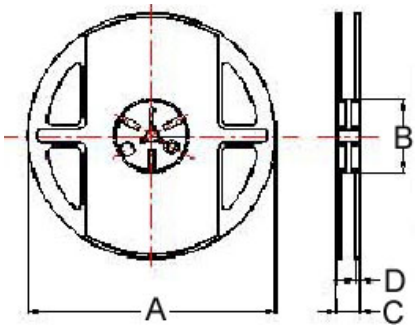
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape Type.	A	B	C	D	PCS / Reel
160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000

Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: SB, GB, PB, UPB, NB, HF, and VPB series.

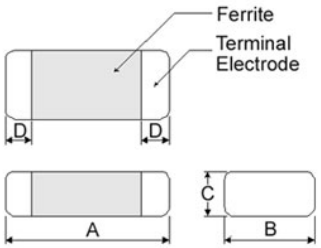
Product Identification

□□□ □□□□□□ □–□□□□–□

- CEC Internal No.
- Tolerance
- Impedance
- Packaging Style
- Dimensions(A、B、C)
- Design code
- Product Symbol

- Product symbol: SB, GB, PB, UPB, NB, HF, VPB
- Packaging: T：Tape and Reel；B：Bulk
- Tolerance: Y = ± 25%; M = ± 20%; T:±30%
- Note: RoHS Compliant

Shape and Dimensions

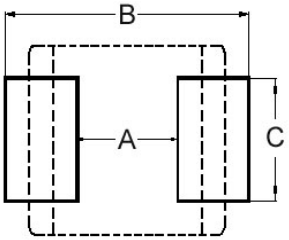


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
④201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑤201212	2.0±0.20	1.25±0.20	1.25±0.20	0.5±0.3
④321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑥321616	3.2±0.20	1.60±0.20	1.6±0.20	0.5±0.3
⑦322513	3.2±0.20	2.50±0.20	1.3±0.20	0.5±0.3
⑧451616	4.5±0.25	1.60±0.20	1.6±0.20	0.5±0.3
⑧453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

①：SB / PB / NB ②：SB / PB / NB / HF ⑦：SB / PB
③：SB / PB / NB / GB / UPB / HF / VPB ⑤：UPB ⑥：SB
④：SB / PB / NB / GB / UPB ⑧：PB / UPB

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
⑤201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
④321611	2.0	4.2 ~ 5.2	1.2
⑥321616	2.0	4.2 ~ 5.2	1.2
⑦322513	2.0	5.5 ~ 6.5	1.8
⑧451616	3.0	5.5 ~ 6.5	1.2
⑧453215	3.0	5.5 ~ 6.5	2.4

＊ Don't apply narrower pattern than listed above to PBY and UPB. Narrow pattern might cause excessive heat or open circuit.

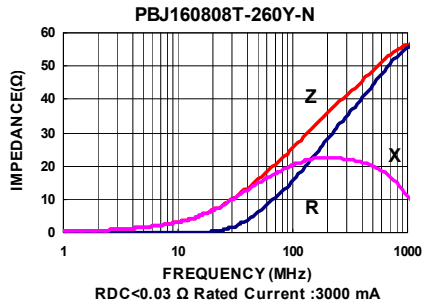
Dimension Conversion

Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
201212	2.0x1.2x1.25	0805
321611	3.2x1.6x.1.1	1206
321616	3.2x1.6x1.6	1206
322513	3.2x2.5x1.3	1210
451616	4.5x1.6x1.6	1806
453215	4.5x3.2x1.5	1812

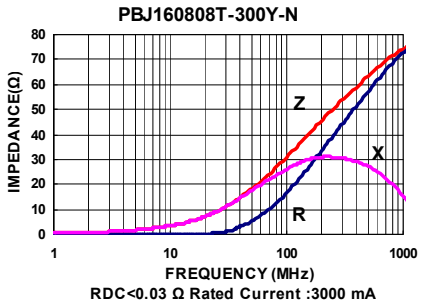
Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
PBJ160808T-100Y-N	100	10±30%	0.02	4000
PBJ160808T-260Y-N	100	26	0.03	3000
PBJ160808T-300Y-N	100	30	0.03	3000
PBJ160808T-400Y-N	100	40	0.035	3000
PBJ160808T-600Y-N	100	60	0.04	3000
PBJ160808T-800Y-N	100	80	0.05	2500
PBJ160808T-101Y-N	100	100	0.05	2500
PBJ160808T-121Y-N	100	120	0.08	2500
PBJ160808T-221Y-N	100	220	0.10	2000
PBJ160808T-331Y-N	100	330	0.15	1500
PBJ160808T-601Y-N	100	600	0.20	1000
PBJ160808T-751Y-N	100	750	0.25	800
PBJ160808T-102Y-N	100	1000	0.25	800

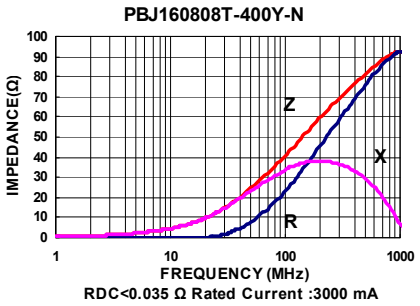
Test Instruments：Agilent E4991A Impedance / Material Analyzer



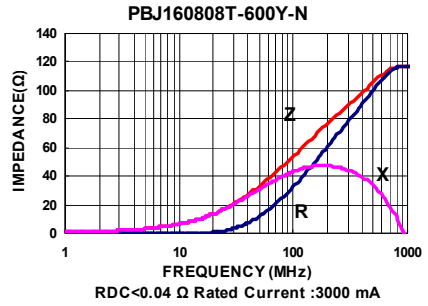
RDC<0.03 Ω Rated Current :3000 mA



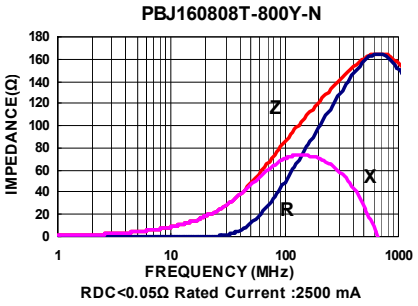
RDC<0.03 Ω Rated Current :3000 mA



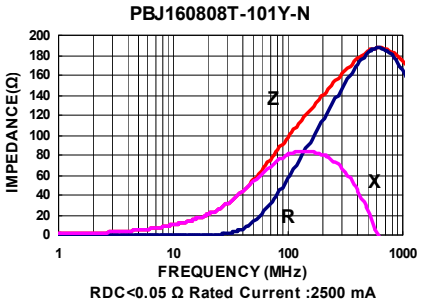
RDC<0.035 Ω Rated Current :3000 mA



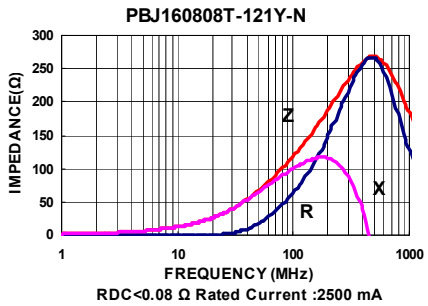
RDC<0.04 Ω Rated Current :3000 mA



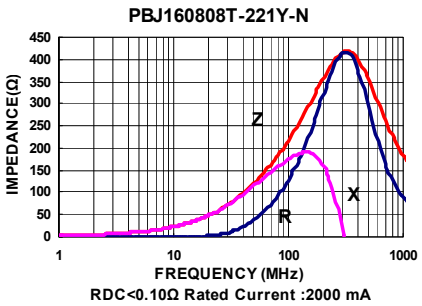
RDC<0.05Ω Rated Current :2500 mA



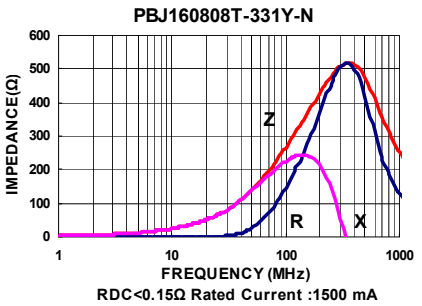
RDC<0.05 Ω Rated Current :2500 mA



RDC<0.08 Ω Rated Current :2500 mA



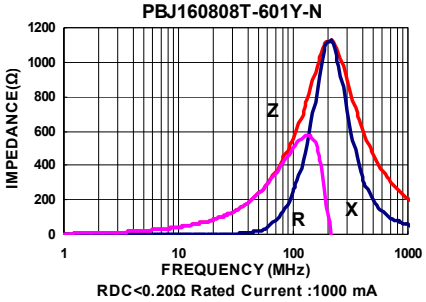
RDC<0.10Ω Rated Current :2000 mA



RDC<0.15Ω Rated Current :1500 mA

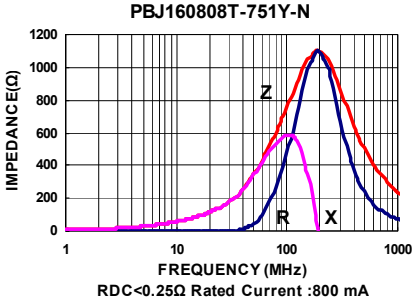
Test Instruments：Agilent E4991A Impedance / Material Analyzer

PBJ160808T-601Y-N



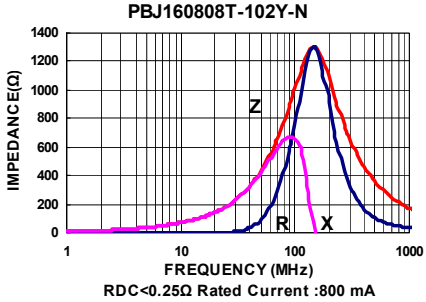
RDC<0.20Ω Rated Current :1000 mA

PBJ160808T-751Y-N



RDC<0.25Ω Rated Current :800 mA

PBJ160808T-102Y-N



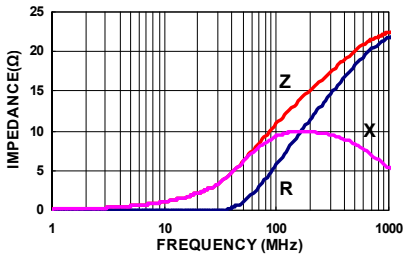
RDC<0.25Ω Rated Current :800 mA

Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
PBJ201209T-110Y-N	100	11±30%	0.01	6000
PBJ201209T-300Y-N	100	30	0.02	4000
PBJ201209T-500Y-N	100	50	0.025	3000
PBJ201209T-600Y-N	100	60	0.03	3000
PBJ201209T-900Y-N	100	90	0.04	3000
PBJ201209T-101Y-N	100	100	0.04	3000
PBJ201209T-121Y-N	100	120	0.04	3000
PBJ201209T-221Y-N	100	220	0.08	2000
PBJ201209T-301Y-N	100	300	0.08	2000
PBJ201209T-401Y-N	100	400	0.10	2000
PBJ201209T-601Y-N	100	600	0.12	2000
PBJ201209T-102Y-N	100	1000	0.15	1500

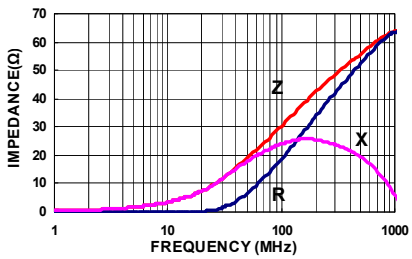
Test Instruments：Agilent E4991A Impedance / Material Analyzer

PBJ201209T-110Y-N



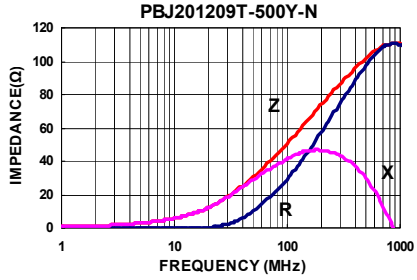
RDC<0.01Ω Rated Current :6000 mA

PBJ201209T-300Y-N



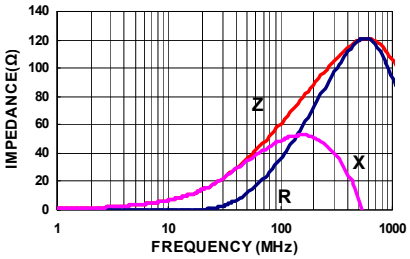
RDC<0.02Ω Rated Current :4000 mA

PBJ201209T-500Y-N



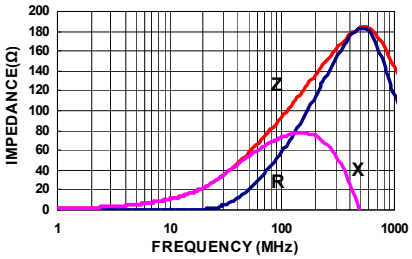
RDC<0.25Ω Rated Current :3000 mA

PBJ201209T-600Y-N



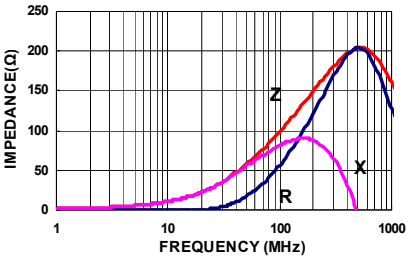
RDC<0.03Ω Rated Current :3000 mA

PBJ201209T-900Y-N



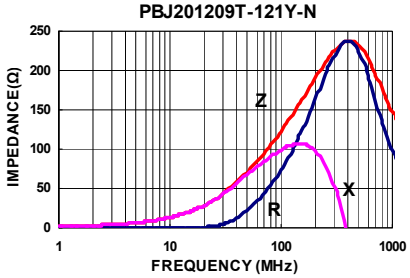
RDC<0.04Ω Rated Current :3000 mA

PBJ201209T-101Y-N



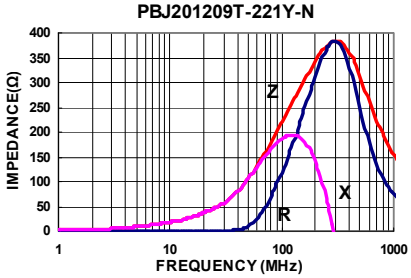
RDC<0.04Ω Rated Current :3000 mA

PBJ201209T-121Y-N



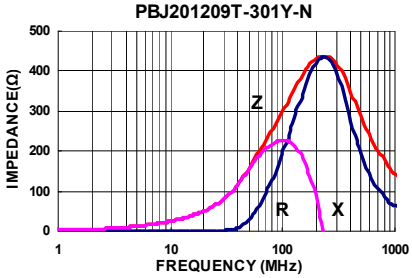
RDC<0.04Ω Rated Current :3000 mA

PBJ201209T-221Y-N



RDC<0.08Ω Rated Current :2000 mA

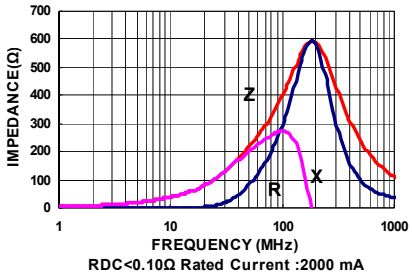
PBJ201209T-301Y-N



RDC<0.080Ω Rated Current :2000 mA

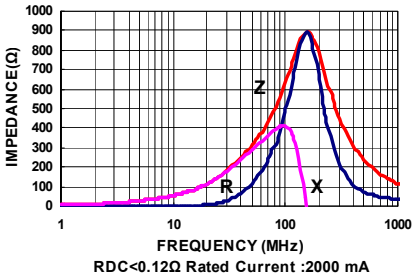
Test Instruments：Agilent E4991A Impedance / Material Analyzer

PBJ201209T-401Y-N



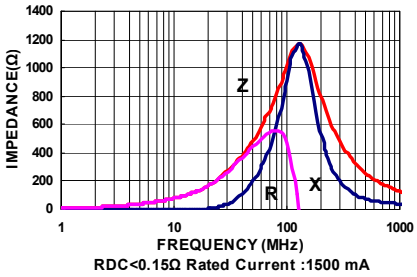
RDC<0.10Ω Rated Current :2000 mA

PBJ201209T-601Y-N



RDC<0.12Ω Rated Current :2000 mA

PBJ201209T-102Y-N

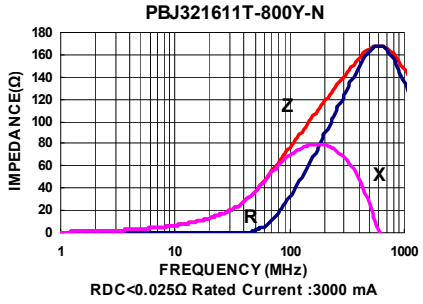


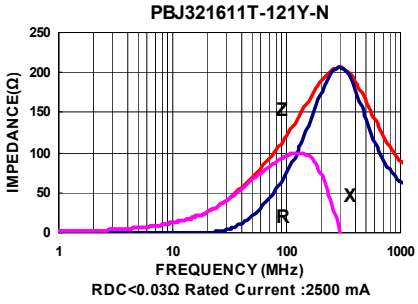
RDC<0.15Ω Rated Current :1500 mA

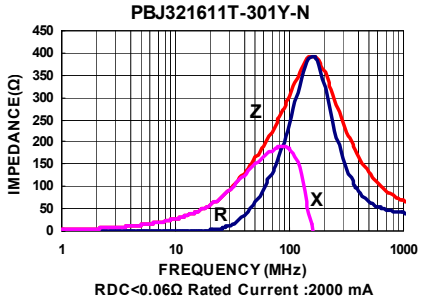
Electrical Characteristics

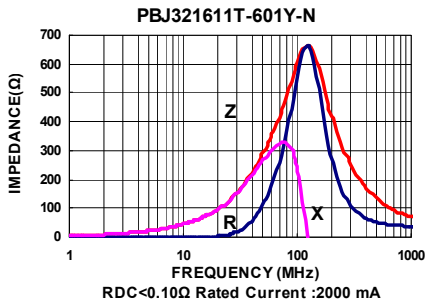
Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
PBJ321611T-110Y-N	100	11±30%	0.015	6000
PBJ321611T-310Y-N	100	31	0.015	4000
PBJ321611T-500Y-N	100	50	0.02	4000
PBJ321611T-800Y-N	100	80	0.025	3000
PBJ321611T-101Y-N	100	100	0.03	2500
PBJ321611T-121Y-N	100	120	0.03	2500
PBJ321611T-151Y-N	100	150	0.04	2000
PBJ321611T-221Y-N	100	220	0.05	2000
PBJ321611T-301Y-N	100	300	0.06	2000
PBJ321611T-401Y-N	100	400	0.10	2000
PBJ321611T-601Y-N	100	600	0.10	2000
PBJ321611T-102Y-N	100	1000	0.15	1200
PBJ321611T-122Y-N	100	1200	0.18	1000
PBJ321611T-152Y-N	100	1500	0.20	800

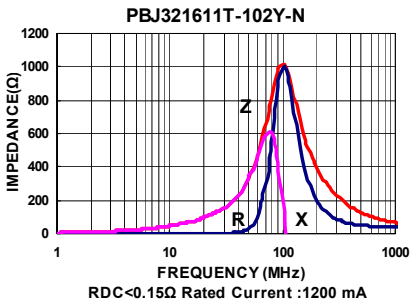
Test Instruments：Agilent E4991A Impedance / Material Analyzer

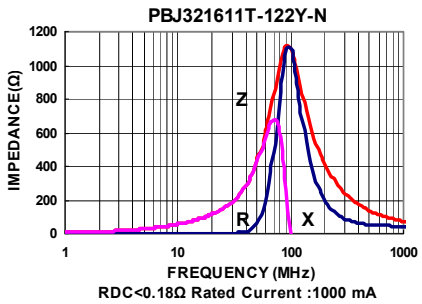






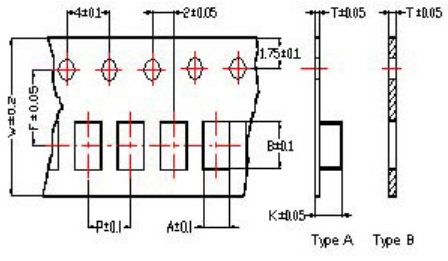




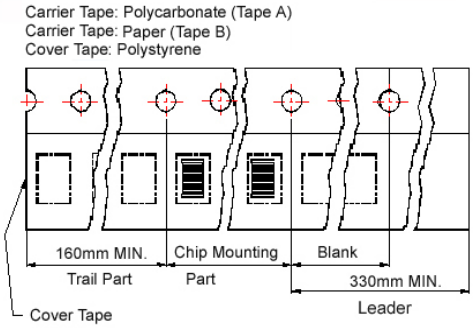


Packaging Specifications

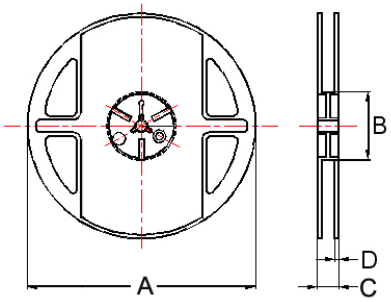
Tape Dimensions



Tape Material



Reel Dimensions



① : SB / PB / NB ② : SB / PB / NB / HF ⑦ : SB / PB
③ : SB / PB / NB / GB / UPB / HF / VPB ⑤ : UPB
④ : SB / PB / NB / GB / UPB ⑥ : SB ⑧ : PB / UPB

Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
①060303	0.38	0.67	0.45	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.65	1.15	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
④201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201212	1.35	2.25	0.22	8.0	4.0	3.5	1.35	A	178	60	12	2	3000
④321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑥321616	1.88	3.53	0.22	8.0	4.0	3.5	1.80	A	178	60	12	2	2000
⑦322513	2.77	3.42	0.22	8.0	4.0	3.5	1.55	A	178	60	12	2	2500
⑧451616	1.93	4.95	0.24	12	4.0	5.5	1.93	A	178	60	14	2	2000
⑧453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000

Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: SB, GB, PB, UPB, NB, HF, and VPB series.

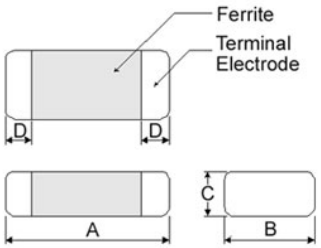
Product Identification

□□□ □□□□□□ □–□□□□–□

- CEC Internal No.
- Tolerance
- Impedance
- Packaging Style
- Dimensions(A、B、C)
- Design code
- Product Symbol

- Product symbol: SB, GB, PB, UPB, NB, HF, VPB
- Packaging: T：Tape and Reel；B：Bulk
- Tolerance: Y = ± 25%; M = ± 20%; T:±30%
- Note: RoHS Compliant

Shape and Dimensions

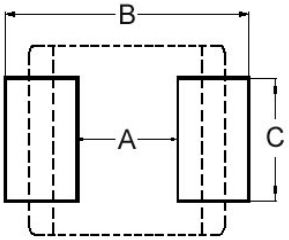


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
④201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑤201212	2.0±0.20	1.25±0.20	1.25±0.20	0.5±0.3
④321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑥321616	3.2±0.20	1.60±0.20	1.6±0.20	0.5±0.3
⑦322513	3.2±0.20	2.50±0.20	1.3±0.20	0.5±0.3
⑧451616	4.5±0.25	1.60±0.20	1.6±0.20	0.5±0.3
⑧453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

①：SB / PB / NB ②：SB / PB / NB / HF ⑦：SB / PB
③：SB / PB / NB / GB / UPB / HF / VPB ⑤：UPB ⑥：SB
④：SB / PB / NB / GB / UPB ⑧：PB / UPB

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
⑤201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
④321611	2.0	4.2 ~ 5.2	1.2
⑥321616	2.0	4.2 ~ 5.2	1.2
⑦322513	2.0	5.5 ~ 6.5	1.8
⑧451616	3.0	5.5 ~ 6.5	1.2
⑧453215	3.0	5.5 ~ 6.5	2.4

＊ Don't apply narrower pattern than listed above to PBY and UPB. Narrow pattern might cause excessive heat or open circuit.

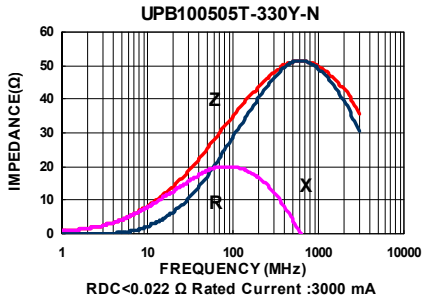
Dimension Conversion

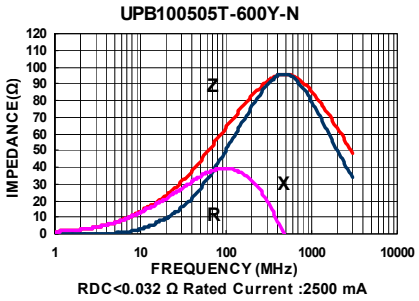
Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
201212	2.0x1.2x1.25	0805
321611	3.2x1.6x.1.1	1206
321616	3.2x1.6x1.6	1206
322513	3.2x2.5x1.3	1210
451616	4.5x1.6x1.6	1806
453215	4.5x3.2x1.5	1812

Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
UPB100505T-330Y-N	100	33	0.022	3000
UPB100505T-600Y-N	100	60	0.032	2500
UPB100505T-800Y-N	100	80	0.038	2300
UPB100505T-121Y-N	100	120	0.055	2000
UPB100505T-181Y-N	100	180	0.090	1500
UPB100505T-221Y-N	100	220	0.100	1400
UPB100505T-331Y-N	100	330	0.150	1200

Test Instruments：Agilent E4991A Impedance / Material Analyzer

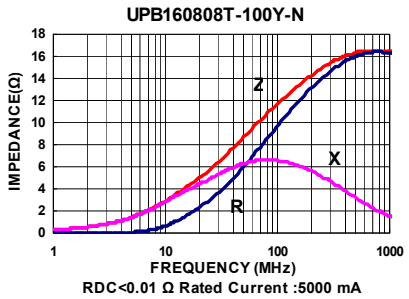


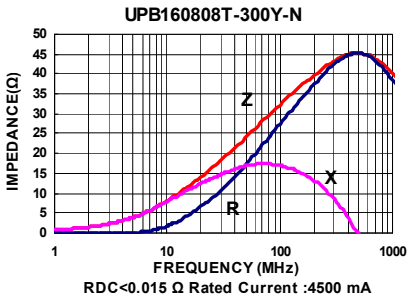


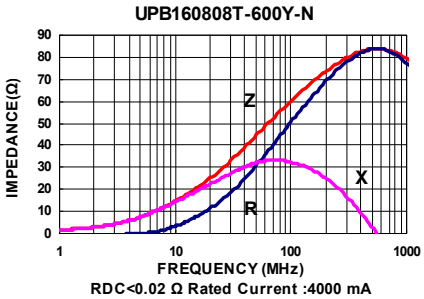
Electrical Characteristics

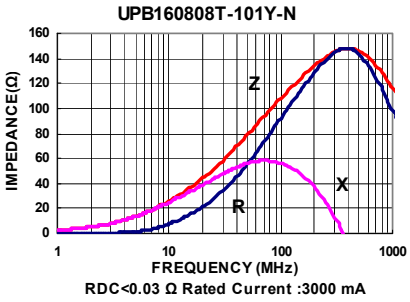
Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
UPB160808T-100Y-N	100	10±30%	0.010	5000
UPB160808T-300Y-N	100	30	0.015	4500
UPB160808T-600Y-N	100	60	0.020	4000
UPB160808T-700Y-N	100	70	0.020	4000
UPB160808T-101Y-N	100	100	0.030	3000
UPB160808T-121Y-N	100	120	0.030	3000
UPB160808T-181Y-N	100	180	0.050	2000
UPB160808T-221Y-N	100	220	0.040	2500

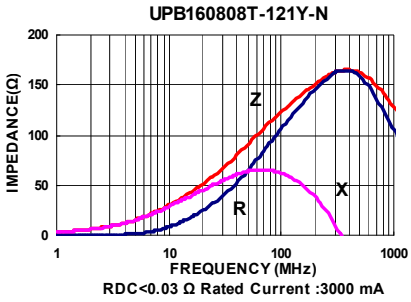
Test Instruments：Agilent E4991A Impedance / Material Analyzer

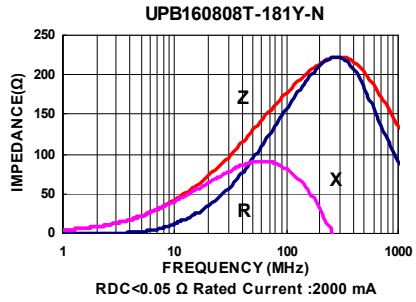








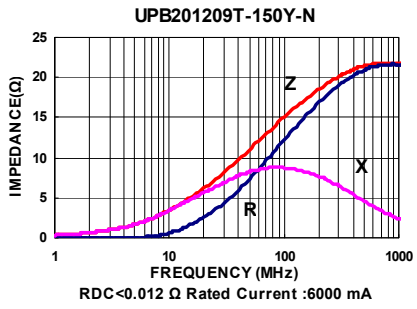


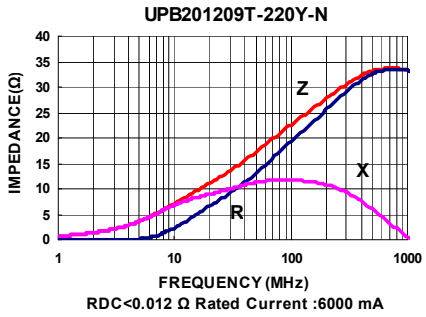


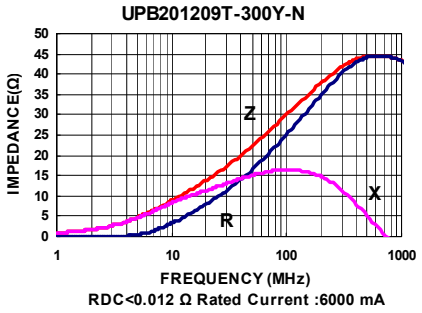
Electrical Characteristics

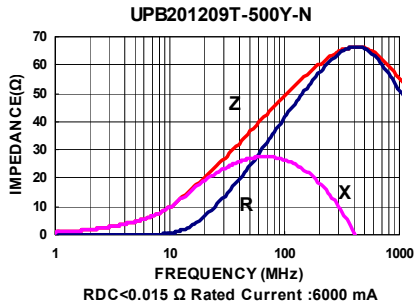
Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
UPB201209T-150Y-N	100	15	0.012	6000
UPB201209T-220Y-N	100	22	0.012	6000
UPB201209T-300Y-N	100	30	0.012	6000
UPB201209T-500Y-N	100	50	0.015	6000
UPB201209T-600Y-N	100	60	0.02	4500
UPB201209T-800Y-N	100	80	0.02	4500
UPB201209T-101Y-N	100	100	0.02	5000
UPB201209T-121Y-N	100	120	0.02	5000
UPB201209T-201Y-N	100	200	0.04	3000
UPB201209T-221Y-N	100	220	0.04	3000
UPB201209T-301Y-N	100	300	0.05	3000
UPB201209T-331Y-N	100	330	0.05	3000

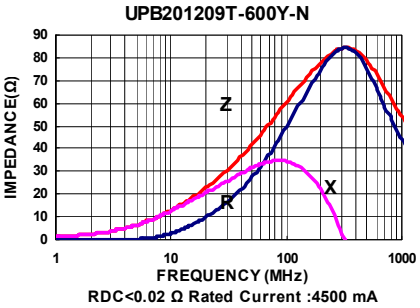
Test Instruments：Agilent E4991A Impedance / Material Analyzer

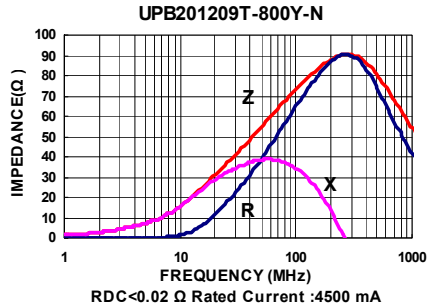


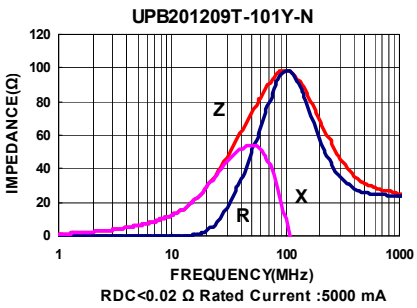


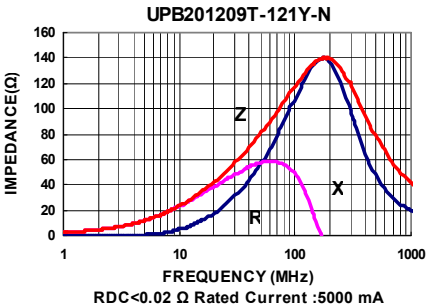


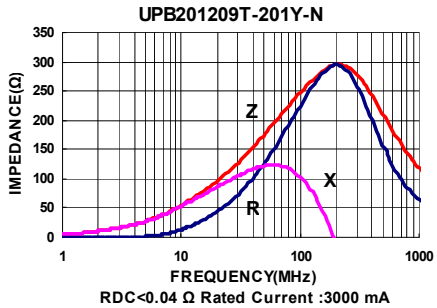




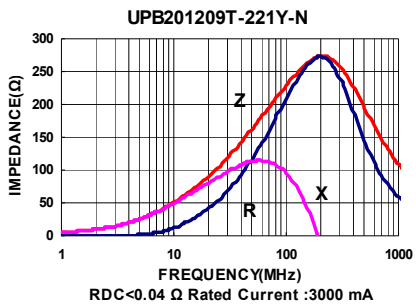


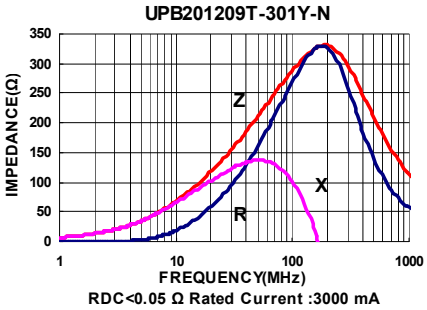


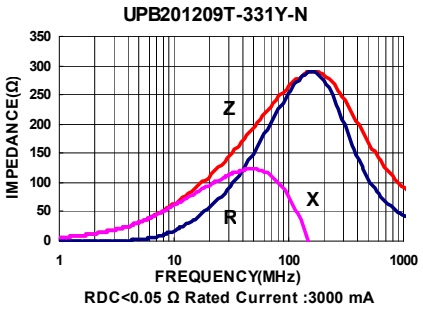




Test Instruments：Agilent E4991A Impedance / Material Analyzer



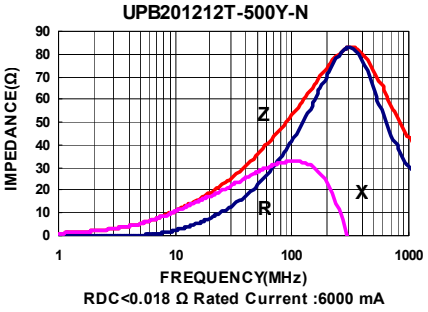




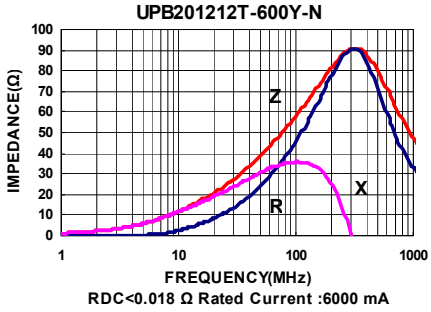
Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
UPB201212T-500Y-N	100	50	0.018	6000
UPB201212T-600Y-N	100	60	0.018	6000
UPB201212T-700Y-N	100	70	0.018	6000
UPB201212T-800Y-N	100	80	0.020	6000
UPB201212T-900Y-N	100	90	0.025	5000
UPB201212T-101Y-N	100	100	0.025	5000
UPB201212T-121Y-N	100	120	0.025	5000

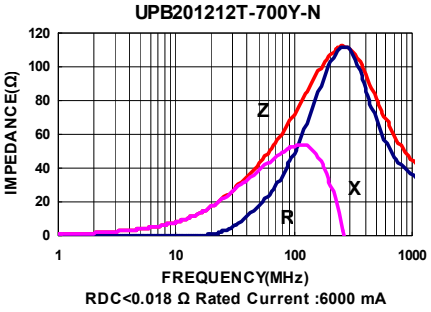
Test Instruments：Agilent E4991A Impedance / Material Analyzer



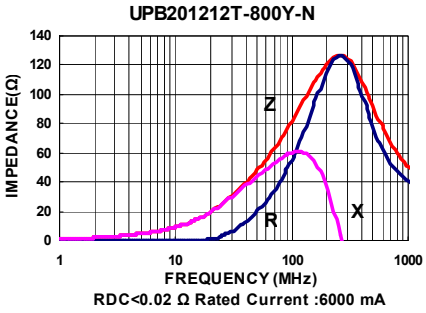
RDC<0.018 Ω Rated Current :6000 mA



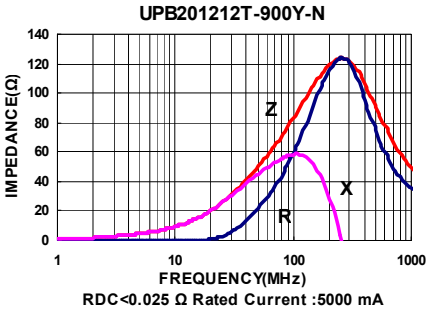
RDC<0.018 Ω Rated Current :6000 mA



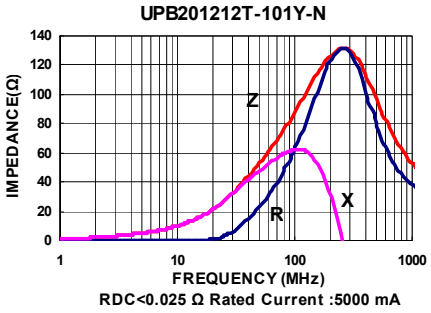
RDC<0.018 Ω Rated Current :6000 mA



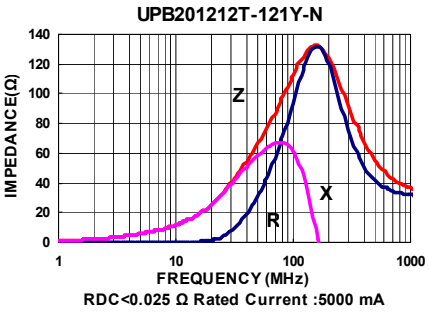
RDC<0.02 Ω Rated Current :6000 mA



RDC<0.025 Ω Rated Current :5000 mA



RDC<0.025 Ω Rated Current :5000 mA

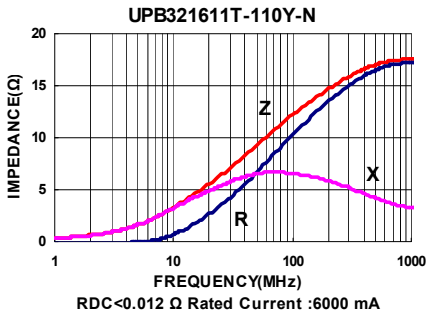


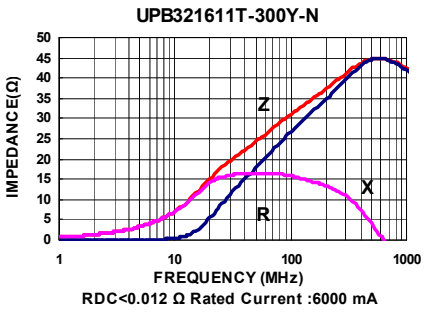
RDC<0.025 Ω Rated Current :5000 mA

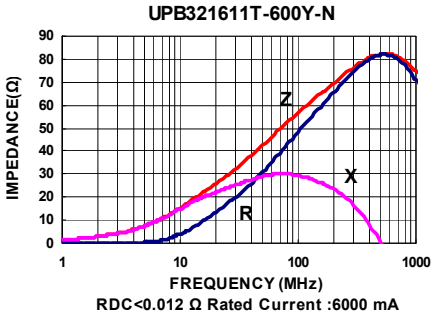
Electrical Characteristics

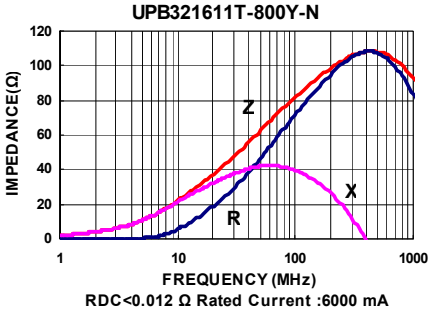
Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
UPB321611T-110Y-N	100	11±30%	0.012	6000
UPB321611T-300Y-N	100	30	0.012	6000
UPB321611T-600Y-N	100	60	0.012	6000
UPB321611T-800Y-N	100	80	0.012	6000
UPB321611T-101Y-N	100	100	0.012	6000
UPB321611T-121Y-N	100	120	0.012	6000
UPB321611T-151Y-N	100	150	0.020	4500
UPB321611T-181Y-N	100	180	0.020	4500
UPB321611T-221Y-N	100	220	0.020	4500

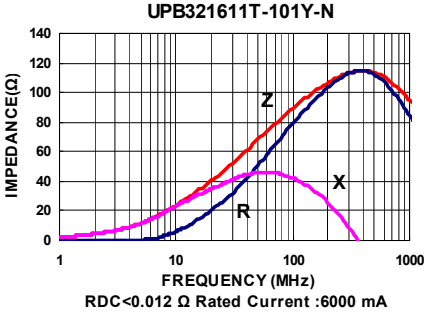
Test Instruments：Agilent E4991A Impedance / Material Analyzer

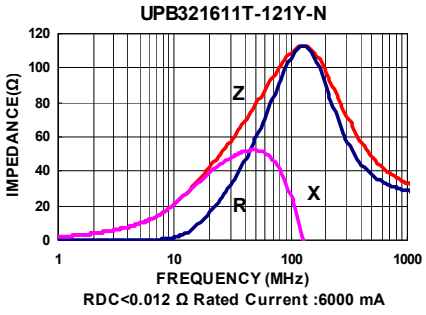


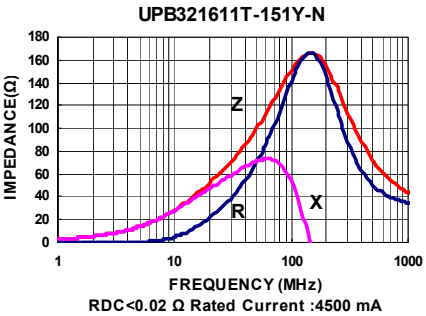


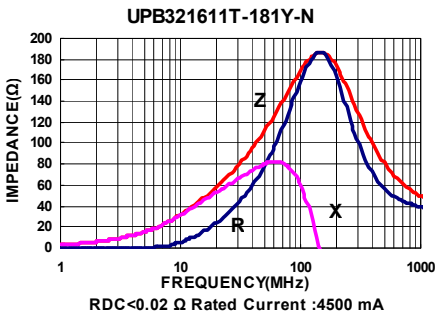


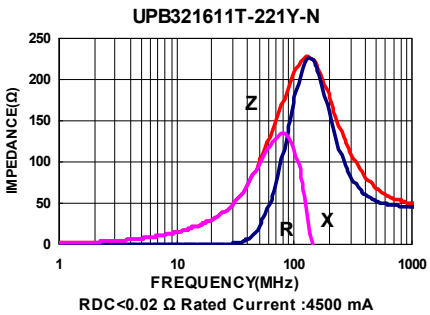








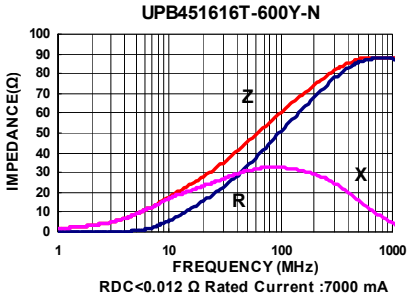


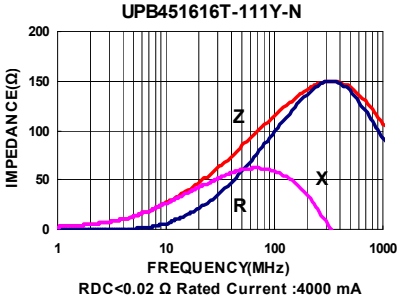


Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
UPB451616T-600Y-N	100	60	0.012	7000
UPB451616T-111Y-N	100	110	0.020	4000

Test Instruments：Agilent E4991A Impedance / Material Analyzer



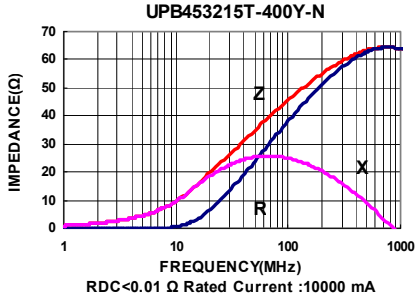


Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	DC Resistance (Ω) Max	Rated current (mA) Max
UPB453215T-400Y-N	100	40	0.010	10000
UPB453215T-560Y-N	100	56	0.010	10000
UPB453215T-700Y-N	100	70	0.010	9000
UPB453215T-800Y-N	100	80	0.010	9000
UPB453215T-900Y-N	100	90	0.015	6000
UPB453215T-121Y-N	100	120	0.020	6000
UPB453215T-151Y-N	100	150	0.020	6000

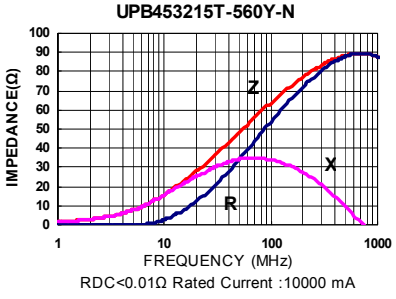
Test Instruments：Agilent E4991A Impedance / Material Analyzer

UPB453215T-400Y-N



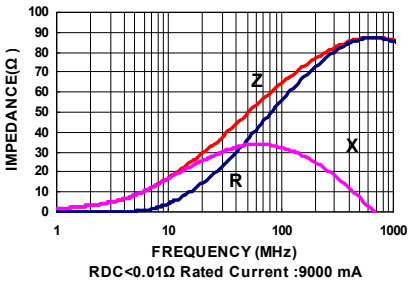
RDC<0.01 Ω Rated Current :10000 mA

UPB453215T-560Y-N



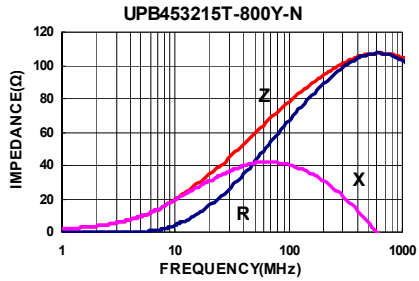
RDC<0.01Ω Rated Current :10000 mA

UPB453215T-700Y-N



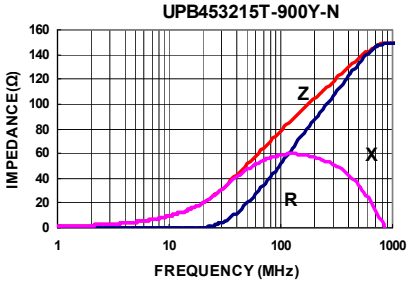
RDC<0.01Ω Rated Current :9000 mA

UPB453215T-800Y-N



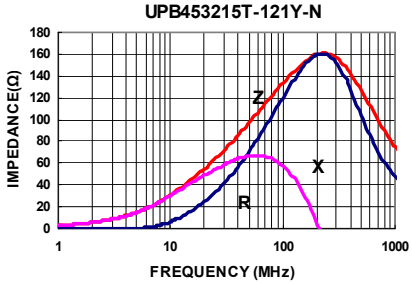
RDC<0.01Ω Rated Current :9000 mA

UPB453215T-900Y-N



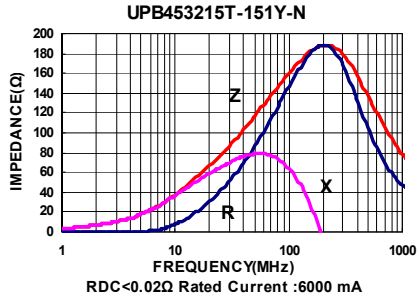
RDC<0.015Ω Rated Current :6000 mA

UPB453215T-121Y-N



RDC<0.02Ω Rated Current :6000 mA

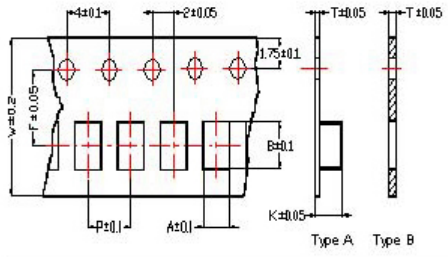
UPB453215T-151Y-N



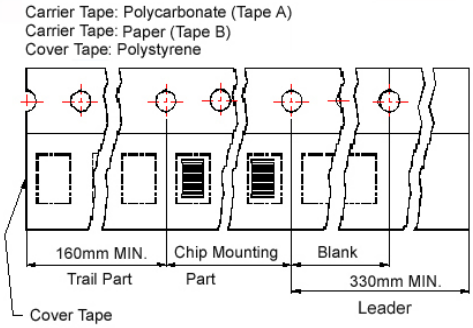
RDC<0.02Ω Rated Current :6000 mA

Packaging Specifications

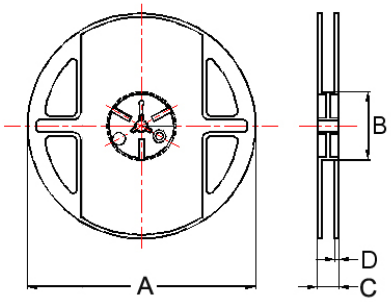
Tape Dimensions



Tape Material



Reel Dimensions



① : SB / PB / NB ② : SB / PB / NB / HF ⑦ : SB / PB
③ : SB / PB / NB / GB / UPB / HF / VPB ⑤ : UPB
④ : SB / PB / NB / GB / UPB ⑥ : SB ⑧ : PB / UPB

Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
①060303	0.38	0.67	0.45	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.65	1.15	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
④201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201212	1.35	2.25	0.22	8.0	4.0	3.5	1.35	A	178	60	12	2	3000
④321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑥321616	1.88	3.53	0.22	8.0	4.0	3.5	1.80	A	178	60	12	2	2000
⑦322513	2.77	3.42	0.22	8.0	4.0	3.5	1.55	A	178	60	12	2	2500
⑧451616	1.93	4.95	0.24	12	4.0	5.5	1.93	A	178	60	14	2	2000
⑧453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000

Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: SB, GB, PB, UPB, NB, HF, and VPB series.

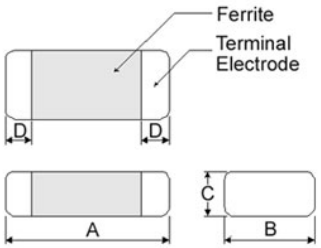
Product Identification

□□□ □□□□□□ □–□□□□–□

- CEC Internal No.
- Tolerance
- Impedance
- Packaging Style
- Dimensions(A、B、C)
- Design code
- Product Symbol

- Product symbol: SB, GB, PB, UPB, NB, HF, VPB
- Packaging: T：Tape and Reel；B：Bulk
- Tolerance: Y = ± 25%; M = ± 20%; T:±30%
- Note: RoHS Compliant

Shape and Dimensions

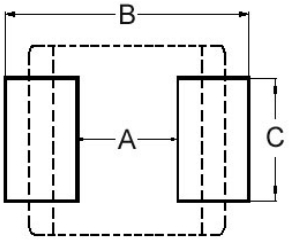


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
④201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑤201212	2.0±0.20	1.25±0.20	1.25±0.20	0.5±0.3
④321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑥321616	3.2±0.20	1.60±0.20	1.6±0.20	0.5±0.3
⑦322513	3.2±0.20	2.50±0.20	1.3±0.20	0.5±0.3
⑧451616	4.5±0.25	1.60±0.20	1.6±0.20	0.5±0.3
⑧453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

①：SB / PB / NB ②：SB / PB / NB / HF ⑦：SB / PB
③：SB / PB / NB / GB / UPB / HF / VPB ⑤：UPB ⑥：SB
④：SB / PB / NB / GB / UPB ⑧：PB / UPB

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
⑤201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
④321611	2.0	4.2 ~ 5.2	1.2
⑥321616	2.0	4.2 ~ 5.2	1.2
⑦322513	2.0	5.5 ~ 6.5	1.8
⑧451616	3.0	5.5 ~ 6.5	1.2
⑧453215	3.0	5.5 ~ 6.5	2.4

＊ Don't apply narrower pattern than listed above to PBY and UPB. Narrow pattern might cause excessive heat or open circuit.

Dimension Conversion

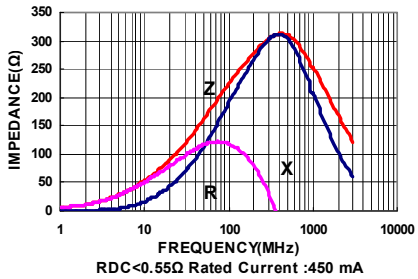
Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
201212	2.0x1.2x1.25	0805
321611	3.2x1.6x.1.1	1206
321616	3.2x1.6x1.6	1206
322513	3.2x2.5x1.3	1210
451616	4.5x1.6x1.6	1806
453215	4.5x3.2x1.5	1812

Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	Test Frequency (MHz)	Impedance (Ω±40%)	DC Resistance (Ω) Max	Rated current (mA) Max
HFY100505T-221Y-N	100	220	1000	270	0.55	450
HFY100505T-301Y-N	100	300	1000	450	0.55	350
HFY100505T-471Y-N	100	470	1000	650	0.60	300
HFY100505T-601Y-N	100	600	1000	1000	0.7	300
HFY100505T-102Y-N	100	1000	1000	1400	1.1	250

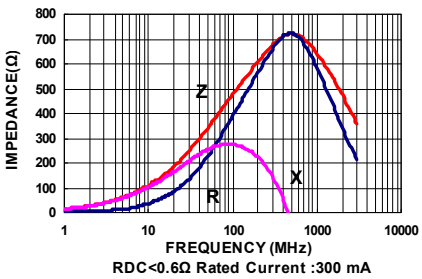
Test Instruments：Agilent E4991A Impedance / Material Analyzer

HFY100505T-221Y-N



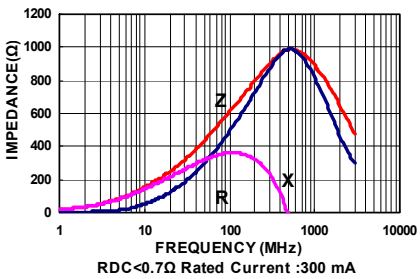
RDC<0.55Ω Rated Current :450 mA

HFY100505T-471Y-N



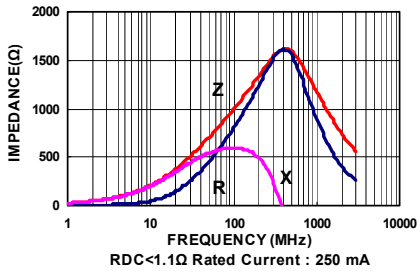
RDC<0.6Ω Rated Current :300 mA

HFY100505T-601Y-N



RDC<0.7Ω Rated Current :300 mA

HFY100505T-102Y-N

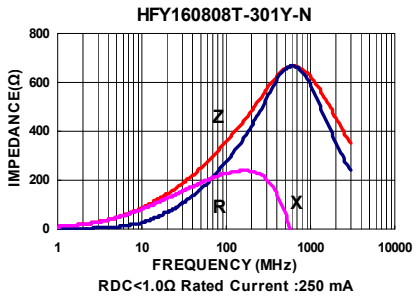


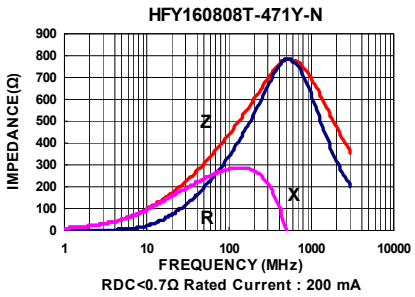
RDC<1.1Ω Rated Current : 250 mA

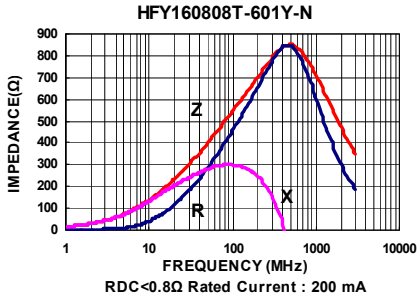
Electrical Characteristics

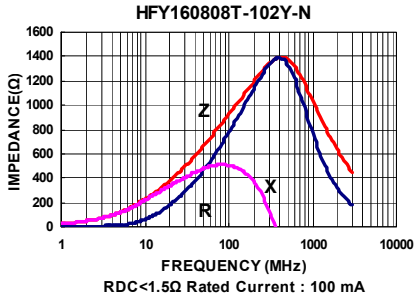
Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	Test Frequency (MHz)	Impedance (Ω±40%)	DC Resistance (Ω) Max	Rated current (mA) Max
HFY160808T-301Y-N	100	300	1000	550	0.7	200
HFY160808T-471Y-N	100	470	1000	600	0.7	200
HFY160808T-601Y-N	100	600	1000	700	0.8	200
HFY160808T-102Y-N	100	1000	1000	1000	1.5	100
HFY160808T-152Y-N	100	1500	1000	1500	1.6	100

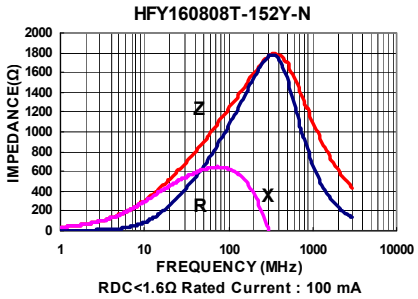
Test Instruments：Agilent E4991A Impedance / Material Analyzer





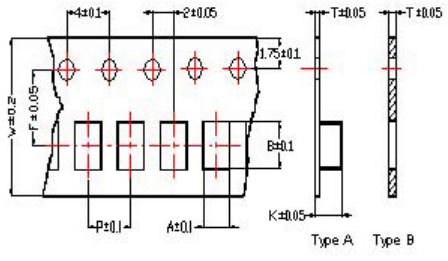




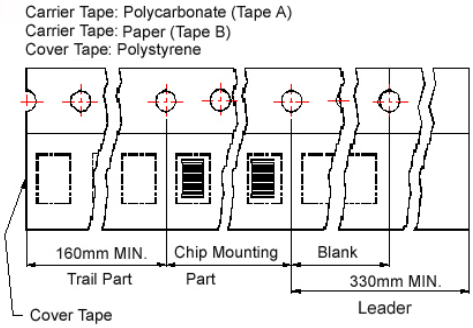


Packaging Specifications

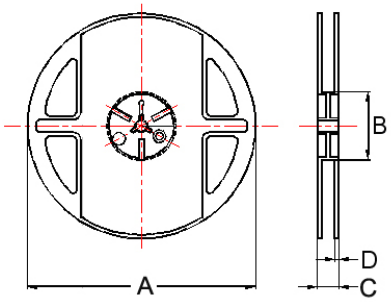
Tape Dimensions



Tape Material



Reel Dimensions



① : SB / PB / NB ② : SB / PB / NB / HF ⑦ : SB / PB
③ : SB / PB / NB / GB / UPB / HF / VPB ⑤ : UPB
④ : SB / PB / NB / GB / UPB ⑥ : SB ⑧ : PB / UPB

Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
①060303	0.38	0.67	0.45	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.65	1.15	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
④201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201212	1.35	2.25	0.22	8.0	4.0	3.5	1.35	A	178	60	12	2	3000
④321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑥321616	1.88	3.53	0.22	8.0	4.0	3.5	1.80	A	178	60	12	2	2000
⑦322513	2.77	3.42	0.22	8.0	4.0	3.5	1.55	A	178	60	12	2	2500
⑧451616	1.93	4.95	0.24	12	4.0	5.5	1.93	A	178	60	14	2	2000
⑧453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000

Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: SB, GB, PB, UPB, NB, HF, and VPB series.

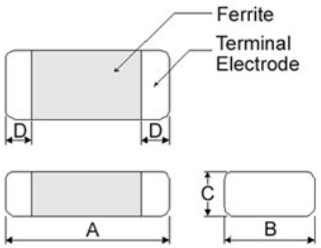
Product Identification

□□□ □□□□□□ □–□□□□–□

- CEC Internal No.
- Tolerance
- Impedance
- Packaging Style
- Dimensions(A、B、C)
- Design code
- Product Symbol

- Product symbol: SB, GB, PB, UPB, NB, HF, VPB
- Packaging: T：Tape and Reel；B：Bulk
- Tolerance: Y = ± 25%; M = ± 20%; T:±30%
- Note: RoHS Compliant

Shape and Dimensions

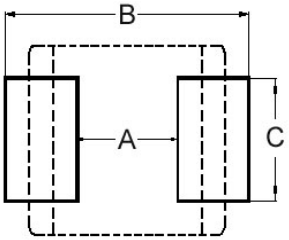


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
④201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑤201212	2.0±0.20	1.25±0.20	1.25±0.20	0.5±0.3
④321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑥321616	3.2±0.20	1.60±0.20	1.6±0.20	0.5±0.3
⑦322513	3.2±0.20	2.50±0.20	1.3±0.20	0.5±0.3
⑧451616	4.5±0.25	1.60±0.20	1.6±0.20	0.5±0.3
⑧453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

①：SB / PB / NB ②：SB / PB / NB / HF ⑦：SB / PB
③：SB / PB / NB / GB / UPB / HF / VPB ⑤：UPB ⑥：SB
④：SB / PB / NB / GB / UPB ⑧：PB / UPB

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
⑤201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
④321611	2.0	4.2 ~ 5.2	1.2
⑥321616	2.0	4.2 ~ 5.2	1.2
⑦322513	2.0	5.5 ~ 6.5	1.8
⑧451616	3.0	5.5 ~ 6.5	1.2
⑧453215	3.0	5.5 ~ 6.5	2.4

＊ Don't apply narrower pattern than listed above to PBY and UPB. Narrow pattern might cause excessive heat or open circuit.

Dimension Conversion

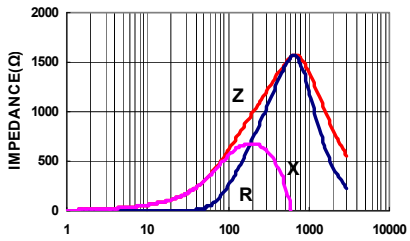
Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
201212	2.0x1.2x1.25	0805
321611	3.2x1.6x.1.1	1206
321616	3.2x1.6x1.6	1206
322513	3.2x2.5x1.3	1210
451616	4.5x1.6x1.6	1806
453215	4.5x3.2x1.5	1812

Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	Test Frequency (MHz)	Impedance (Ω±40%)	DC Resistance (Ω) Max	Rated current (mA) Max
HFJ100505T-601Y-N	100	600	1000	1400	0.85	300
HFJ100505T-102Y-N	100	1000	1000	2000	1.25	250
HFJ100505T-152Y-N	100	1500	1000	2400	1.80	230
HFJ100505T-182Y-N	100	1800	1000	2700	2.20	200

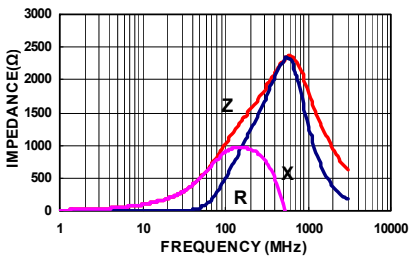
Test Instruments：Agilent E4991A Impedance / Material Analyzer

HFJ100505T-601Y-N



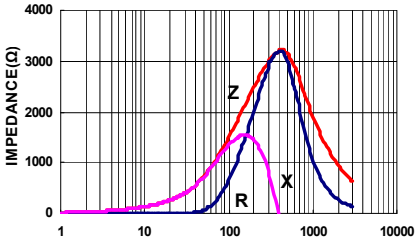
RDC<0.85Ω Rated Current : 300 mA

HFJ100505T-102Y-N



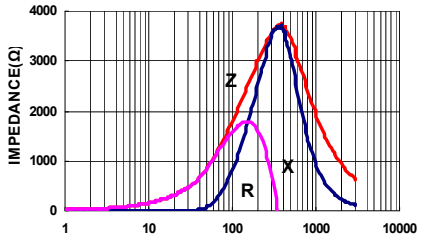
RDC<1.25Ω Rated Current : 250 mA

HFJ100505T-152Y-N



RDC<1.80Ω Rated Current : 230 mA

HFJ100505T-182Y-N

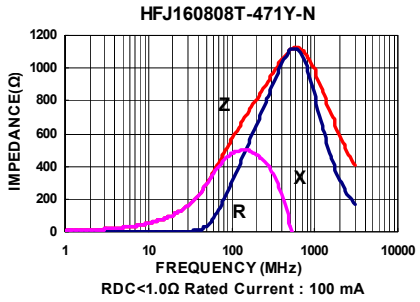


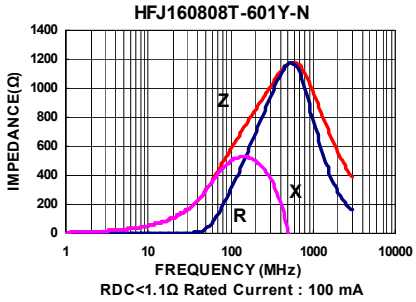
RDC<2.20Ω Rated Current : 200 mA

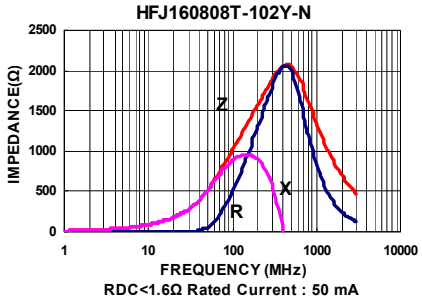
Electrical Characteristics

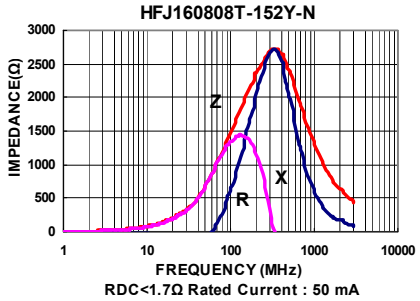
Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	Test Frequency (MHz)	Impedance (Ω±40%)	DC Resistance (Ω) Max	Rated current (mA) Max
HFJ160808T-471Y-N	100	470	1000	1000	1.0	100
HFJ160808T-601Y-N	100	600	1000	1200	1.1	100
HFJ160808T-102Y-N	100	1000	1000	1200	1.6	50
HFJ160808T-152Y-N	100	1500	1000	1500	1.7	50
HFJ160808T-172Y-N	100	1700	1000	1700	1.6	50

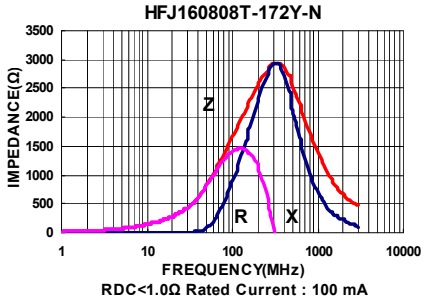
Test Instruments：Agilent E4991A Impedance / Material Analyzer





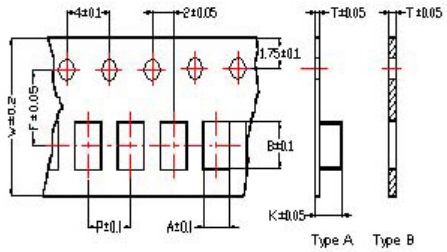




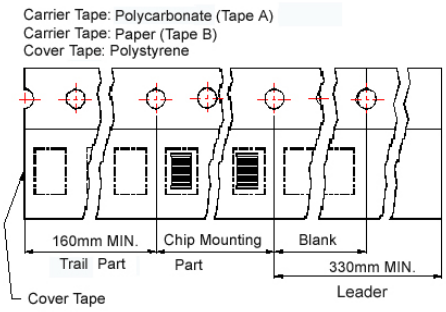


Packaging Specifications

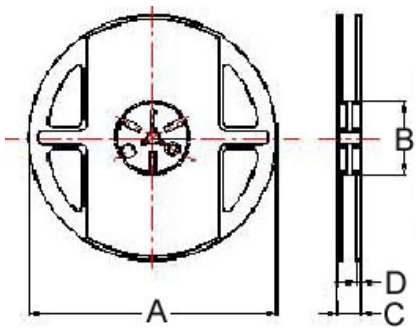
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape Type.	A	B	C	D	PCS / REEL
100505	0.65	1.15	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000

Multilayer Ferrite Chip Beads

Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: SB, GB, PB, UPB, NB, HF, and VPB series.

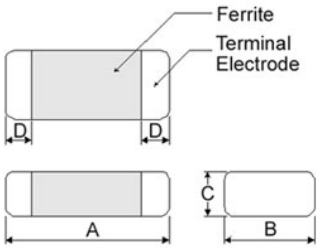
Product Identification

□□□ □□□□□□ □–□□□□–□

- CEC Internal No.
- Tolerance
- Impedance
- Packaging Style
- Dimensions(A、B、C)
- Design code
- Product Symbol

- Product symbol: SB, GB, PB, UPB, NB, HF, VPB
- Packaging: T：Tape and Reel；B：Bulk
- Tolerance: Y = ± 25%; M = ± 20%; T:±30%
- Note: RoHS Compliant

Shape and Dimensions

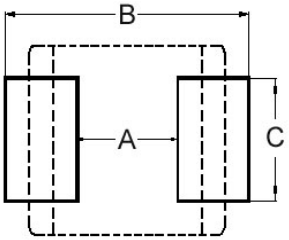


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
④201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑤201212	2.0±0.20	1.25±0.20	1.25±0.20	0.5±0.3
④321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3
⑥321616	3.2±0.20	1.60±0.20	1.6±0.20	0.5±0.3
⑦322513	3.2±0.20	2.50±0.20	1.3±0.20	0.5±0.3
⑧451616	4.5±0.25	1.60±0.20	1.6±0.20	0.5±0.3
⑧453215	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3

①：SB / PB / NB ②：SB / PB / NB / HF ⑦：SB / PB
③：SB / PB / NB / GB / UPB / HF / VPB ⑤：UPB ⑥：SB
④：SB / PB / NB / GB / UPB ⑧：PB / UPB

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
⑤201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
④321611	2.0	4.2 ~ 5.2	1.2
⑥321616	2.0	4.2 ~ 5.2	1.2
⑦322513	2.0	5.5 ~ 6.5	1.8
⑧451616	3.0	5.5 ~ 6.5	1.2
⑧453215	3.0	5.5 ~ 6.5	2.4

＊ Don't apply narrower pattern than listed above to PBY and UPB. Narrow pattern might cause excessive heat or open circuit.

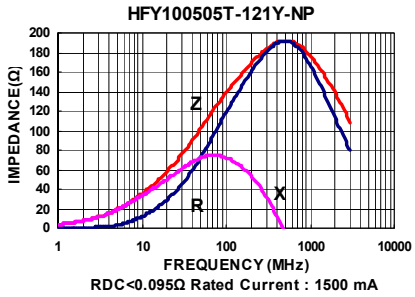
Dimension Conversion

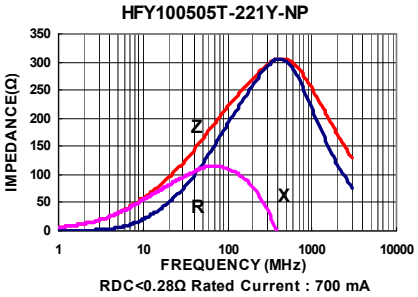
Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
201212	2.0x1.2x1.25	0805
321611	3.2x1.6x.1.1	1206
321616	3.2x1.6x1.6	1206
322513	3.2x2.5x1.3	1210
451616	4.5x1.6x1.6	1806
453215	4.5x3.2x1.5	1812

Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	Test Frequency (MHz)	Impedance (Ω±40%)	DC Resistance (Ω) Max	Rated current (mA) Max
HFY100505T-121Y-NP	100	120	1000	150	0.095	1500
HFY100505T-221Y-NP	100	220	1000	270	0.280	700

Test Instruments：Agilent E4991A Impedance / Material Analyzer



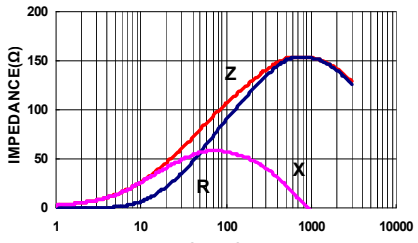


Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance (Ω±25%)	Test Frequency (MHz)	Impedance (Ω)Typ	DC Resistance (Ω) Max	Rated current (mA) Max
HPY160808T-121Y-NP	100	120	1000	145	0.040	2000
HPY160808T-181Y-NP	100	180	1000	210	0.045	2000
HPY160808T-221Y-NP	100	220	1000	260	0.050	2000
HFY160808T-331Y-NP	100	330	1000	450	0.21	500
HFY160808T-391Y-NP	100	390	1000	520	0.21	500
HFY160808T-471Y-NP	100	470	1000	600	0.21	500
HFY160808T-601Y-NP	100	600	1000	700	0.35	500
HFY160808T-102Y-NP	100	1000	1000	1000	0.50	450

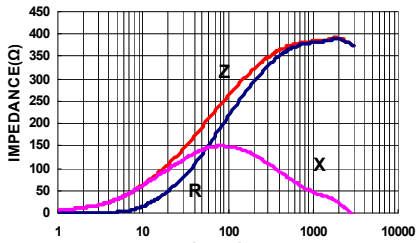
Test Instruments：Agilent E4991A Impedance / Material Analyzer

HPY160808T-121Y-NP



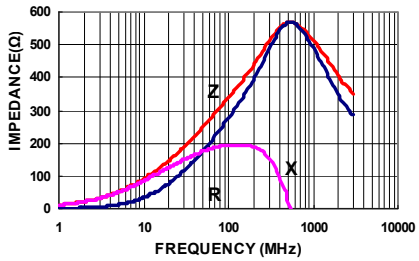
RDC<0.04Ω Rated Current : 2000 mA

HPY160808T-221Y-NP



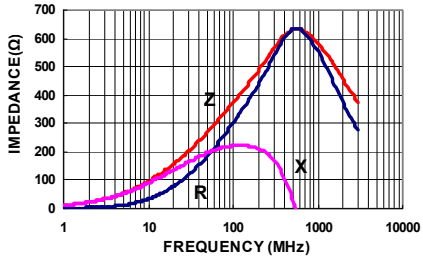
RDC<0.05Ω Rated Current : 2000 mA

HFY160808T-331Y-NP



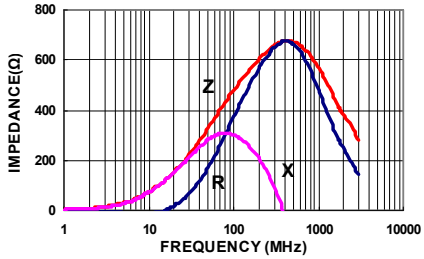
RDC<0.21Ω Rated Current : 500 mA

HFY160808T-391Y-NP



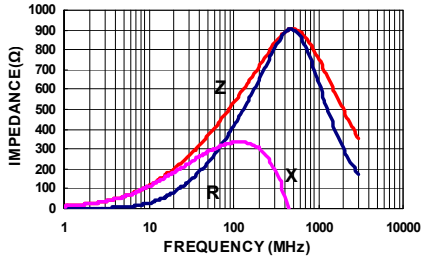
RDC<0.21Ω Rated Current : 500 mA

HFY160808T-471Y-NP



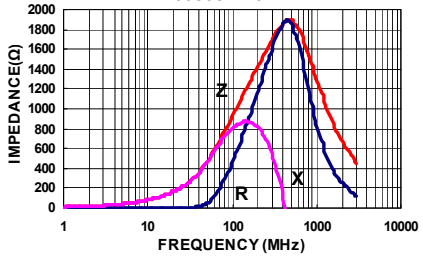
RDC<0.21Ω Rated Current : 500 mA

HFY160808T-601Y-NP



RDC<0.35Ω Rated Current : 500 mA

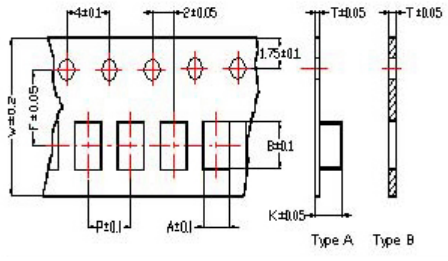
HFY160808T-102Y-NP



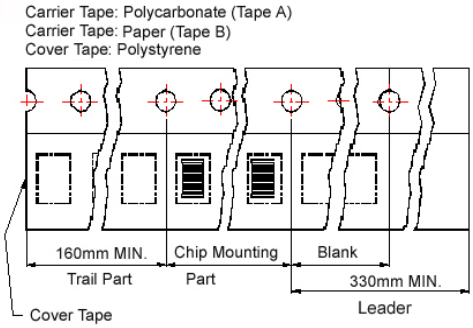
RDC<0.5Ω Rated Current : 450 mA

Packaging Specifications

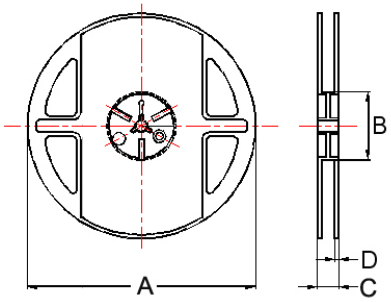
Tape Dimensions



Tape Material



Reel Dimensions



① : SB / PB / NB ② : SB / PB / NB / HF ⑦ : SB / PB
③ : SB / PB / NB / GB / UPB / HF / VPB ⑤ : UPB
④ : SB / PB / NB / GB / UPB ⑥ : SB ⑧ : PB / UPB

Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
①060303	0.38	0.67	0.45	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.65	1.15	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
④201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201212	1.35	2.25	0.22	8.0	4.0	3.5	1.35	A	178	60	12	2	3000
④321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑥321616	1.88	3.53	0.22	8.0	4.0	3.5	1.80	A	178	60	12	2	2000
⑦322513	2.77	3.42	0.22	8.0	4.0	3.5	1.55	A	178	60	12	2	2500
⑧451616	1.93	4.95	0.24	12	4.0	5.5	1.93	A	178	60	14	2	2000
⑧453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000

FB Series

The FB series are surface mount beads that have similar impedance levels as leaded shielded beads with high current carrying capacities. The dimensions are good for flow reflow soldering processes.

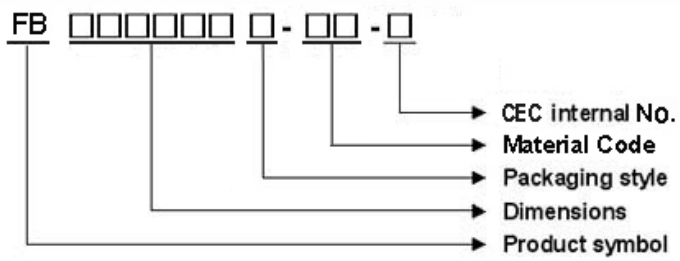
Features

- RoHS Compliant
- Special designs for surface mounting
- Available in various sizes for wide range of application and usage
- Highly resistant against heat and humidity

Applications

- Stereo
- Car radio
- Mobile telephone
- VCRs
- Computer disk drive and PC board

Product Identification



- Packaging: T：Tape and Reel , B：Bulk

Shape and Dimensions

Figure 1

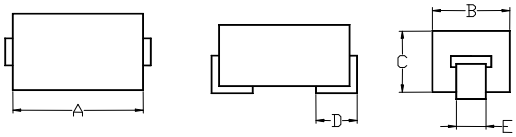
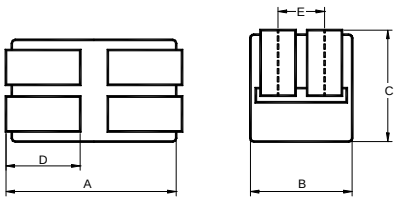


Figure 2



Dimensions in mm

TYPE	A	B	C	D	E	TAPE Width	Fig
FB423226	3.81~4.32	2.92~3.18	2.41~2.67	1.27	1.3	12	1
FB784729	7.62~8.13	4.50~5.00	2.66~3.18	2.03	1.3	16	1
FB863226	8.40~8.75	2.92~3.18	2.41~2.67	1.27	1.35	16	1
FB865626	8.9±0.3	5.6±0.2	2.85±0.2	1.35±0.2	2.54±0.1	16	2

Recommended Pattern

Figure 1

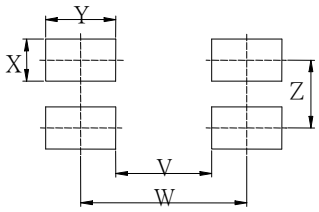
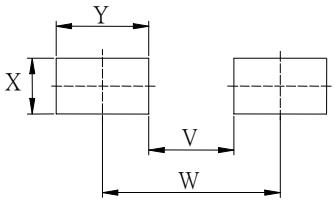


Figure 2



Dimensions in mm

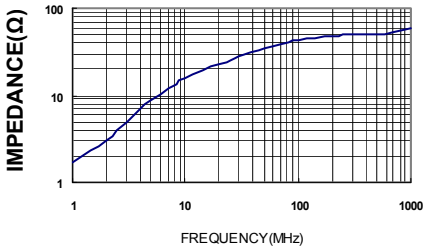
TYPE	V	W	X	Y	Z	Fig
FB423226	1.0	4.0	1.8	3.0	-	2
FB784729	5.0	8.0	1.8	3.0	-	2
FB863226	4.5	7.5	1.8	3.0	-	2
FB865626	4.5	7.5	1.8	3.0	2.54	1

Electrical Characteristics

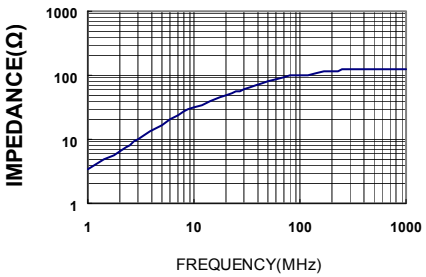
Part Number	Test Frequency		DC Resistance
	25MHz	100MHz	(mΩ) Max
FB423226-Y7-N	24Ω^{-0}	36Ω^{-0}	0.6
FB784729-Y7-N	48Ω^{-0}	72Ω^{-0}	0.9
FB863226-Y7-N	48Ω^{-0}	72Ω^{-0}	0.9
FB865626-Y7-N	30Ω^{-0}	60Ω±20%	-

Test Instruments：HP4291A RF Impedance Analyzer

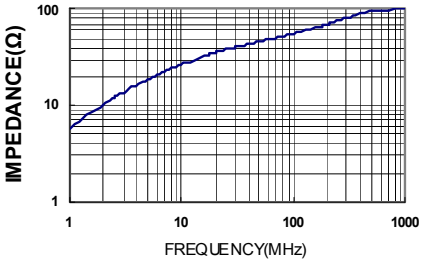
FB423226T-Y7-N



FB784729T-Y7-N

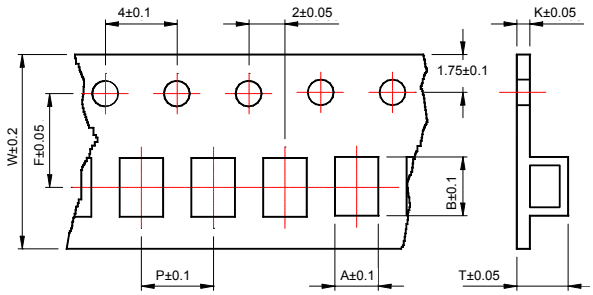


FB863226T-Y7-N

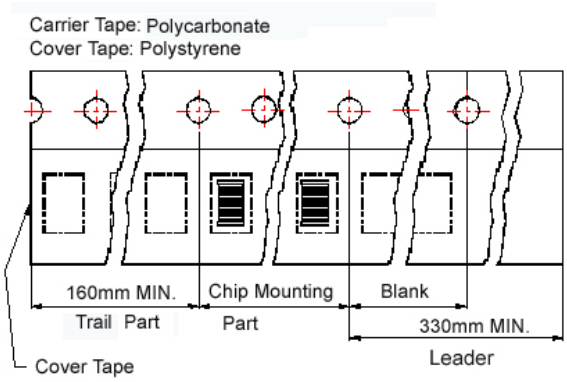


Packaging Specifications

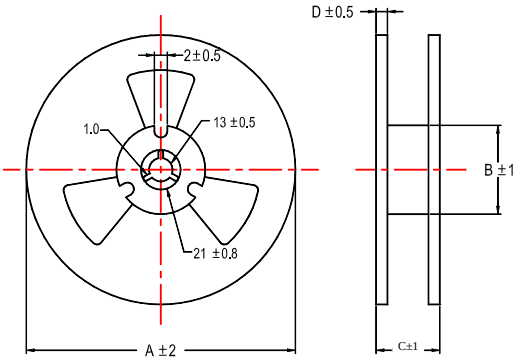
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
FB423226	3.64	5.30	3.10	12	8	5.5	0.3	178	60	16	1.5	500
FB784729	5.24	8.77	3.69	16	8	7.5	0.3	178	60	20	1.5	500
FB863226	3.28	9.35	3.06	16	8	7.5	0.3	178	60	20	1.5	500
FB865626	6.30	9.30	3.10	16	8	7.5	0.27	330	100	21	2	2400

CMF Series

The CMF series is a type of common mode filter designed and produced using the multilayer technology. The multilayer construction allows for excellent noise suppression for signal lines used in high-speed and high-density digital equipment such as personal computers, facsimiles, DSC, STB, etc. Both standard series and custom-design products are available.

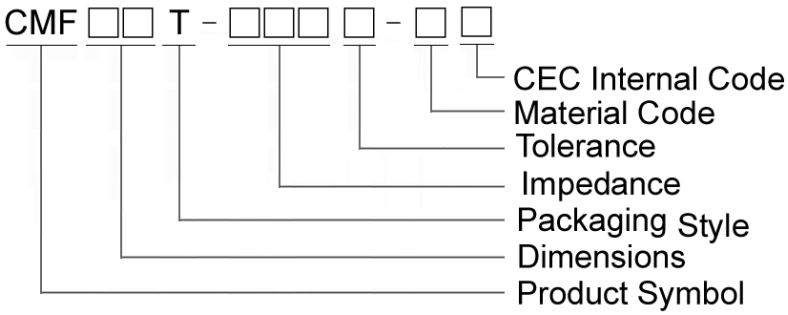
Features

- Multilayer construction for effective suppression of common mode noise at high frequency
- Excellent solderability
- Compact design

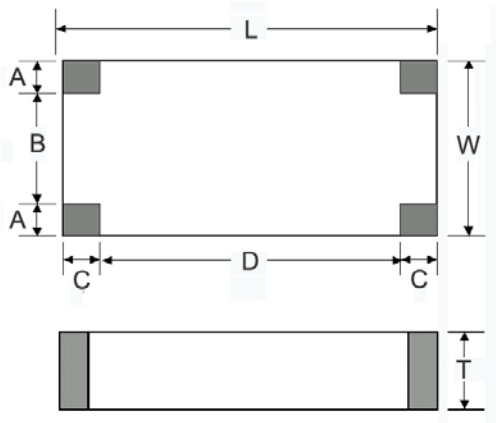
Applications

- High speed interfaces (IEEE1394, USB2.0, and LVDS) in electronic devices
- PDP, LCD TV, DVD player, PC, Audio player, DSC
- Digital audio and video equipment such as PDAs, DVC, CD player, MD player, etc

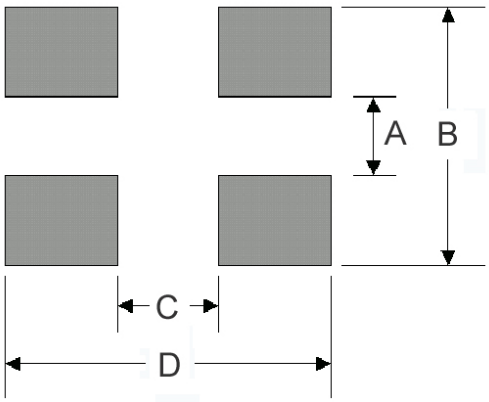
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	L	W	T	A	B	C	D
CMF21	2.00±0.2	1.25±0.2	0.65±0.2	0.30±0.1	0.65±0.2	0.30±0.1	1.40±0.2

Dimensions in mm

TYPE	A	B	C	D
CMF21	0.50	1.30	0.80	2.60

CHILISIN ELECTRONICS CORP.

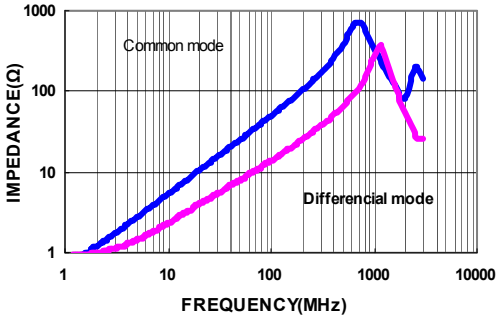
Electrical Characteristics

Part Number	Impedance (Ω)	Test Frequency (MHz)	Tolerance (±%)	RDC (Ω)Max	Rated Current (mA)	Rated Voltage (Vdc)	Insulation Resistance (MΩ) Min
CMF21T-670M-N1	67	100	20	0.4	400	30	200
CMF21T-900M-N1	90	100	20	0.4	400	30	200
CMF21T-121M-N1	121	100	20	0.4	400	30	200

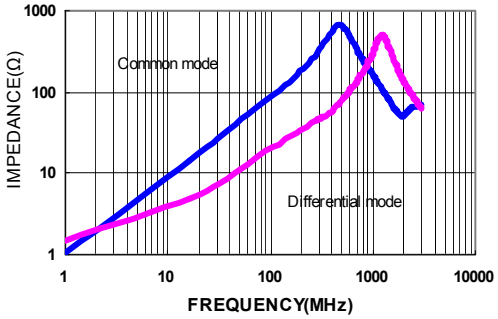
- When ordering, please specify tolerance and packaging codes
- Tolerance: M = ±20%
- Packaging: Clear tape and reel {standard}
- Z: Agilent E4991A
- Rdc (single line): CH502BC/ HP4338B
- Insulation Resistance: Agilent/HP4339B
- Operating temperature range from -25℃ to +85℃. (Including self - temperature rise)

Test Instruments：Agilent E4991A Material/Impedance Analyzer

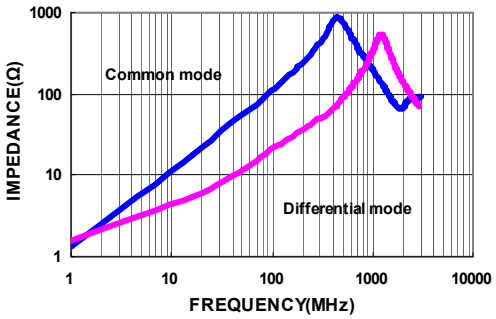
CMF21T-670M-N1



CMF24T-900M-N1

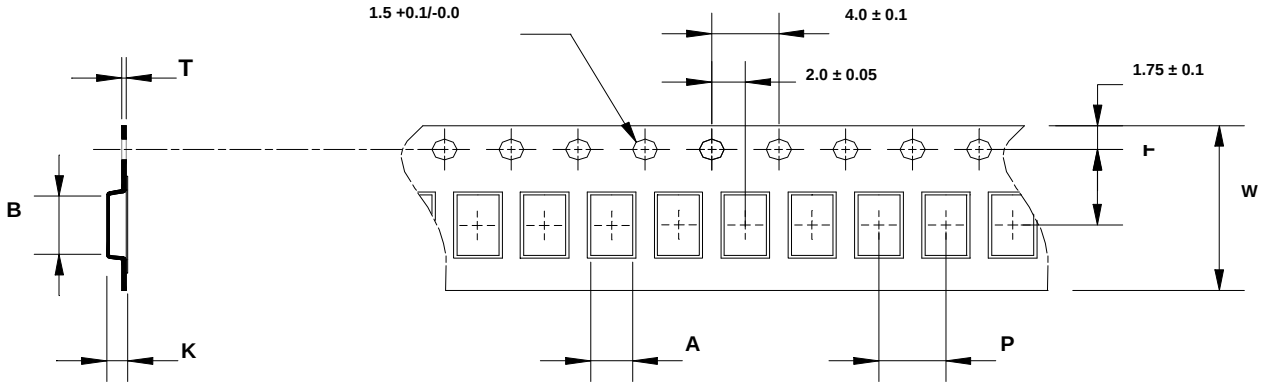


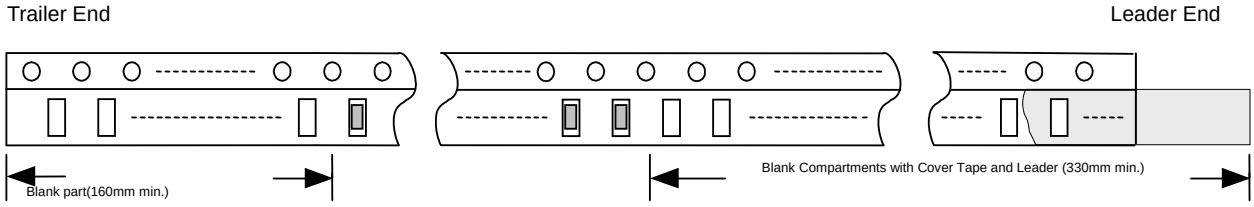
CMF21T-121M-N1



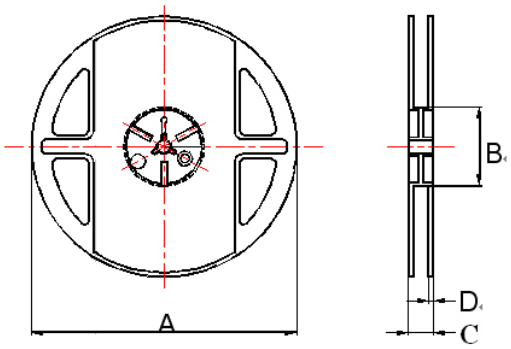
Packaging Specifications

Tape Dimensions





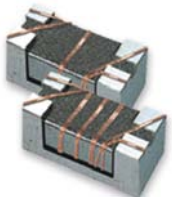
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
CMF21	1.45	2.30	0.22	8	4	3.5	1.13	178	60	12	1.5	4000

CMM Series **For USB 2.0, IEEE1394b, LVDS Applications**



A full series of common mode choke is designed for excellent noise attenuation with compact sizing for use in wide range of applications. Both standard series and custom designs are available.

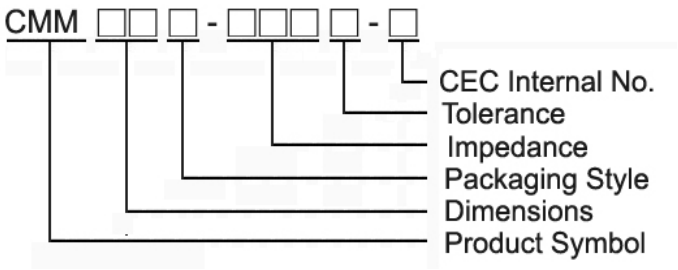
Features

- RoHS Compliant
- Miniature SMD type common mode filter for fully automated assembly
- Wide impedance range (30Ω ~ 2200Ω) for noise suppression
- Excellent solderability

Applications

- USB line for personal computers and peripheral
- IEEE 1394 line for personal computers, DVC, STB
- LVDS, panel line for liquid display panels, graph card etc

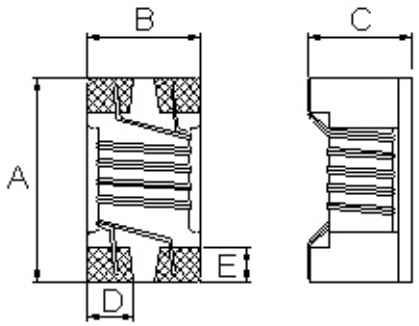
Product Identification



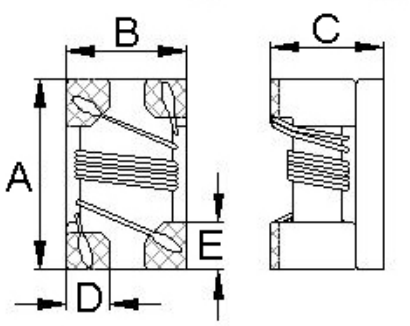
- Packaging: T：Tape and Reel

Shapes and Dimensions

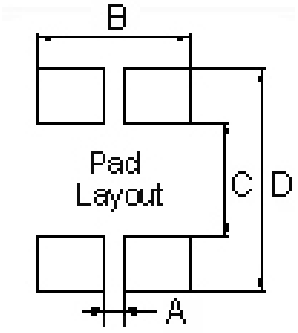
CMM10/ / 11



CMM21/31



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E
CMM10	1.60±0.2	0.80±0.2	1.10±0.2	0.25	0.33
CMM11	1.25±0.2	1.00±0.2	0.8±0.1	0.32	0.33
CMM21	2.05±0.2	1.25±0.2	1.20±0.2	0.50	0.58
CMM31	3.20±0.2	1.60±0.2	1.90±0.2	0.60	0.60

Dimensions in mm

TYPE	A	B	C	D
CMM10	0.25	0.75	0.61	2.29
CMM11	0.36	1.00	0.59	1.75
CMM21	0.50	1.27	0.80	2.60
CMM31	0.40	1.60	1.60	3.70

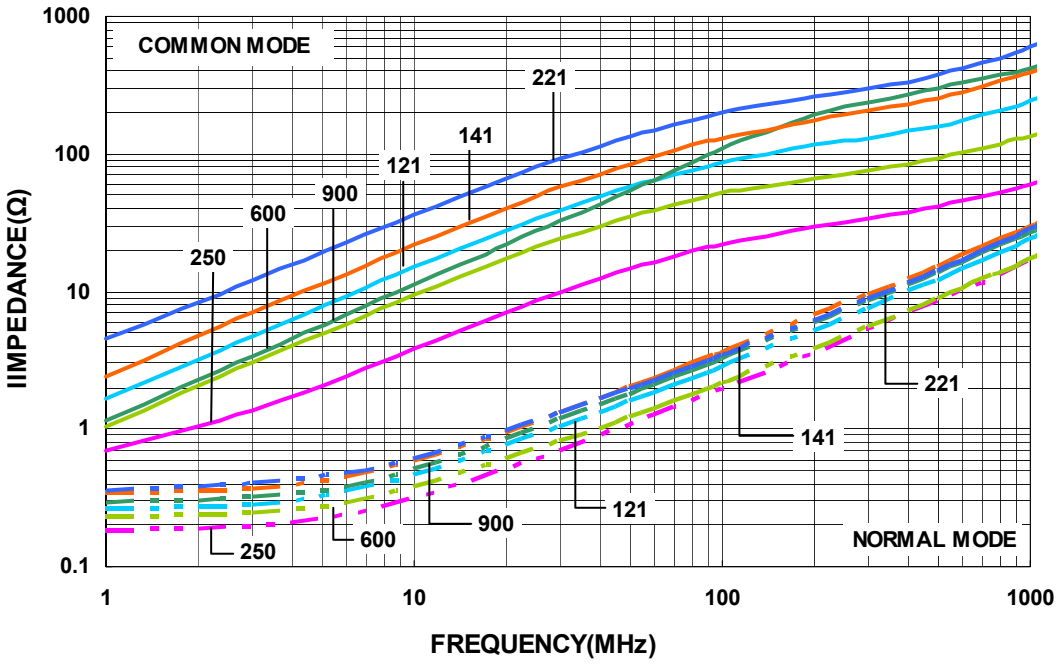
Electrical Characteristics

Part Number	Impedance (Ω)	Test Frequency (MHz)	Tolerance (±%)	Irms (mA) Max	Rated Voltage (Vdc)	Rdc (Ω) Max	Insulation Resistance (MΩ) Min
CMM10T-250M-N	25	100	20,25	500	50	0.077	10
CMM10T-600M-N	60	100	20,25	500	50	0.109	10
CMM10T-900M-N	90	100	20,25	500	50	0.142	10
CMM10T-121M-N	120	100	20,25	500	50	0.160	10
CMM10T-141M-N	140	100	20,25	500	50	0.174	10
CMM10T-221M-N	220	100	20,25	500	50	0.209	10

- When ordering, please specify tolerance and packaging codes. Ex:CMM10T-600M-N
- Tolerance : M = ±20% , Y = ±25%
- Packaging : Clear tape and reel { standard }
- Z : Agilent/HP4287A+Agilent16197A
- Rdc(single line) :Chroma16502
- Irms for 20℃ rise from 25℃ ambient
- Insulation Resistance : Agilent/HP4339B
- Operating temperature range from -40℃ to 105℃. (Including self - temperature rise)

Test Instruments：HP4287A Material/Impedance Analyzer

Typical Impedance vs. Frequency



CHILISIN ELECTRONICS CORP.

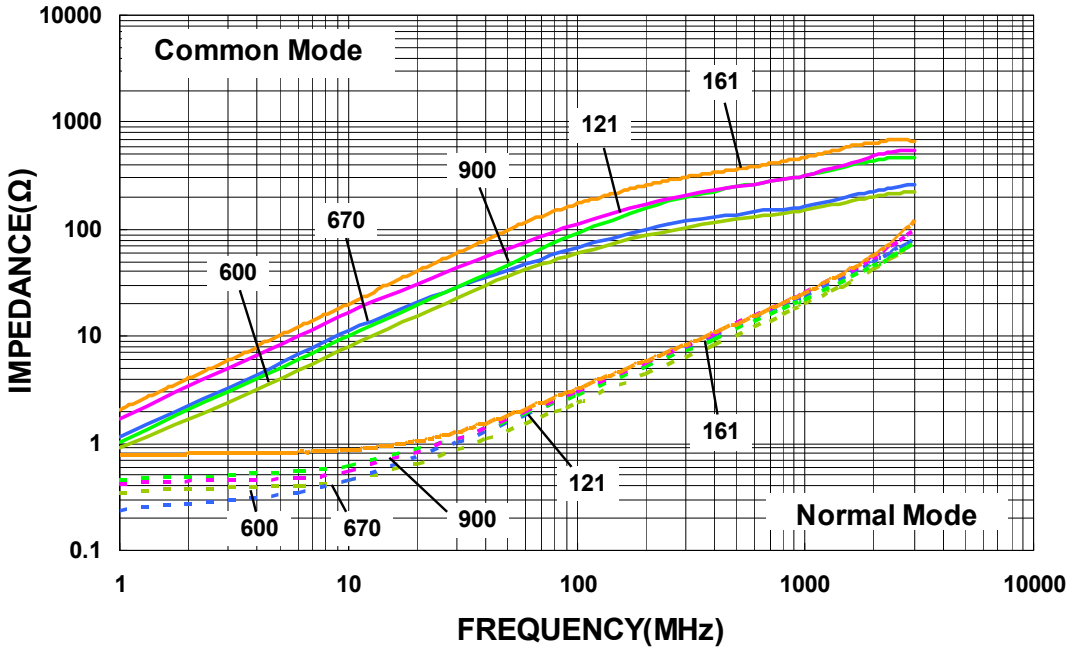
Electrical Characteristics

Part Number	Impedance (Ω)	Test Frequency (MHz)	Tolerance (±%)	Idc (mA) Max	Rated Voltage (Vdc)	Rdc (Ω) Max	Insulation Resistance (MΩ) Min
CMM11T-600M-N	60	100	20	300	20	0.40	10
CMM11T-670M-N	67	100	20	300	50	0.25	10
CMM11T-900M-N	90	100	20	250	50	0.30	10
CMM11T-121M-N	120	100	20	200	50	0.40	10
CMM11T-161M-N	160	100	20	160	50	0.43	10

- When ordering, please specify tolerance and packaging codes. Ex:CMM11T-600M-N
- Tolerance : M = ±20%
- Packaging : Clear tape and reel { standard }.
- Z : Agilent/HP4287A+Agilent16197A
- Rdc(single line) :Chroma16502
- Insulation Resistance : Agilent/HP4339B
- Operating temperature range from -40℃ to 105℃. (Including self - temperature rise)

Test Instruments：HP4287A Material/Impedance Analyzer

Typical Impedance vs. Frequency



CHILISIN ELECTRONICS CORP.

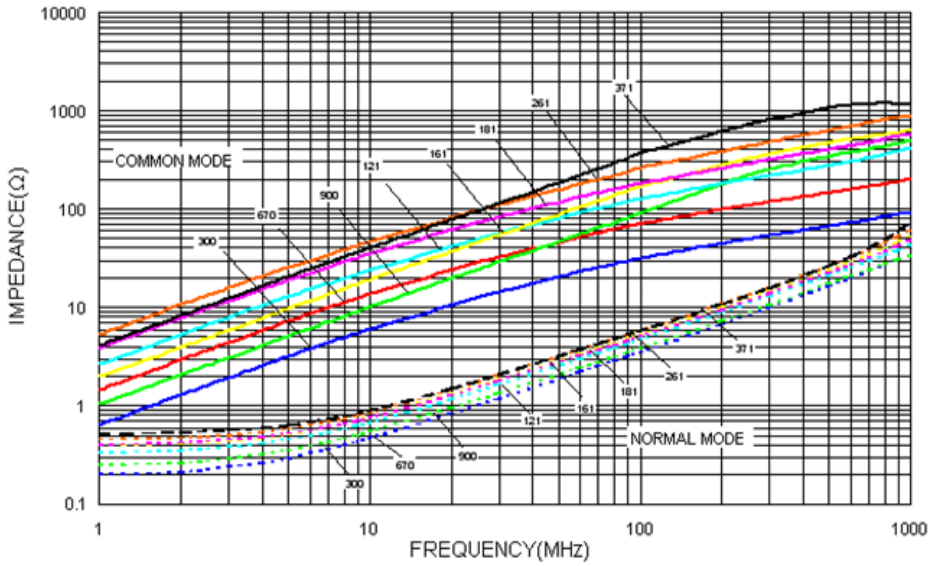
Electrical Characteristics

Part Number	Impedance (Ω)	Test Frequency (MHz)	Tolerance (±%)	Idc (mA) Max	Rated Voltage (Vdc)	Rdc (Ω) Max	Insulation Resistance (MΩ) Min
CMM21T-300M-N	30	100	20	450	120	0.20	10
CMM21T-670M-N	67	100	20	400	120	0.25	10
CMM21T-900M-N	90	100	20	330	120	0.35	10
CMM21T-121M-N	120	100	20	400	120	0.30	10
CMM21T-161M-N	160	100	20	350	120	0.35	10
CMM21T-181M-N	180	100	20	330	120	0.35	10
CMM21T-201M-N	200	100	20	330	120	0.35	10
CMM21T-221M-N	220	100	20	310	120	0.35	10
CMM21T-261M-N	260	100	20	300	120	0.40	10
CMM21T-301M-N	300	100	20	290	120	0.40	10
CMM21T-361M-N	360	100	20	280	120	0.45	10
CMM21T-371M-N	370	100	20	280	120	0.45	10
CMM21T-501M-N	500	100	20	170	120	0.55	10
CMM21T-671M-N	670	100	20	140	120	0.60	10
CMM21T-901M-N	900	100	20	80	120	0.60	10

- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20%
- Packaging : Clear tape and reel { standard }
- Z : Agilent/HP4291A
- Rdc(single line) :CH502BC/ HP4338B
- Insulation Resistance : Agilent /HP4339B
- Operating temperature range from -40℃ to 105℃. (Including self - temperature rise)

Test Instruments：HP4291A Material/Impedance Analyzer

Typical Impedance vs. Frequency



CHILISIN ELECTRONICS CORP.

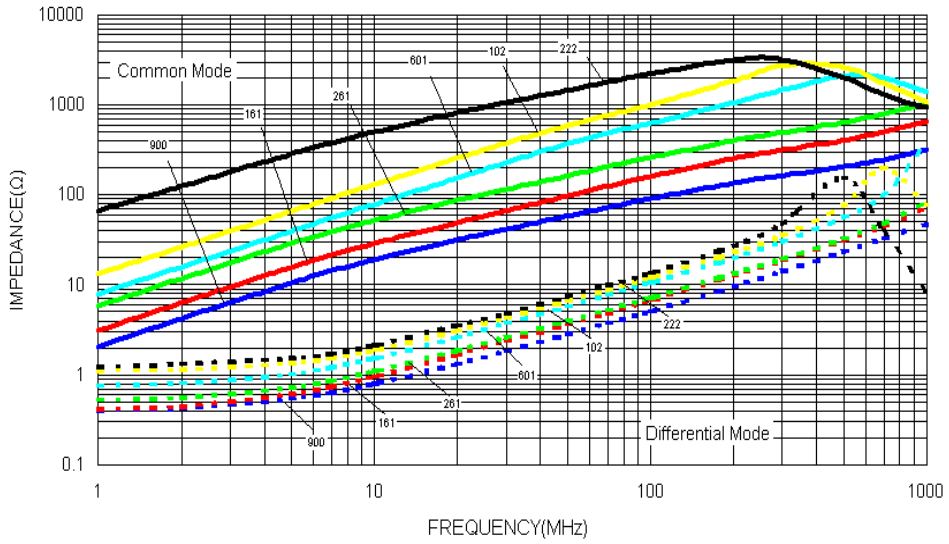
Electrical Characteristics

Part Number	Impedance (Ω)	Test Frequency (MHz)	Tolerance (±%)	Idc (mA) Max	Rated Voltage (Vdc)	Rdc (Ω) Max	Insulation Resistance (MΩ) Min
CMM31T-900M-N	90	100	20	370	50	0.3	10
CMM31T-161M-N	160	100	20	340	50	0.4	10
CMM31T-221M-N	220	100	20	320	50	0.4	10
CMM31T-261M-N	260	100	20	310	50	0.5	10
CMM31T-601M-N	600	100	20	260	50	0.8	10
CMM31T-102M-N	1000	100	20	230	50	1.0	10
CMM31T-222M-N	2200	100	20	200	50	1.2	10

- When ordering, please specify tolerance and packaging codes
- Tolerance: M = ±20%
- Packaging: Clear tape and reel {standard}
- Z: Agilent/HP4291A
- Rdc (single line): CH502BC/ HP4338B
- Insulation Resistance: Agilent/HP4339B
- Operating temperature range from -40℃ to +105℃. (Including self - temperature rise)

Test Instruments：HP4291A Material/Impedance Analyzer

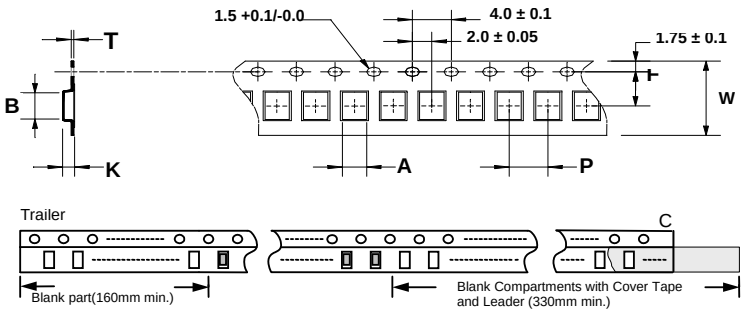
Typical Impedance vs. Frequency



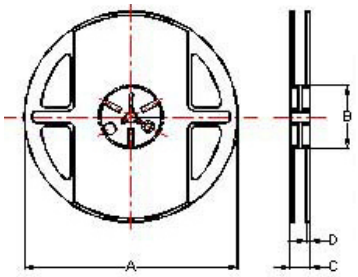
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
CMM10	0.95	1.70	0.24	8	4	3.5	1.15	178	60	12	1.5	2000
CMM11	1.10	1.40	0.24	8	4	3.5	1.00	178	60	12	1.5	2000
CMM21	1.50	2.25	0.24	8	4	3.5	1.45	178	60	12	1.5	2000
CMM31	1.76	3.47	0.22	8	4	3.5	2.05	178	60	12	1.5	2000

CMM Series **For USB 2.0, IEEE1394b, LVDS**

A full series of common mode choke is designed for excellent noise attenuation with compact sizing for use in wide range of applications. Both standard series and custom designs are available.

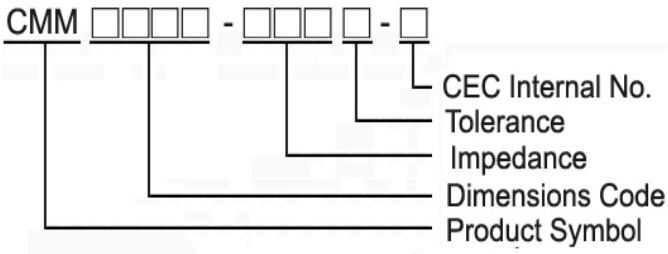
Features

- RoHS Compliant
- Miniature SMD type common mode filter for fully automated assembly
- Wide impedance range (30Ω ~ 2200Ω) for noise suppression
- Excellent solderability

Applications

- USB line for personal computers and peripheral
- IEEE 1394 line for personal computers, DVC, STB
- LVDS, panel line for liquid display panels, graph card etc

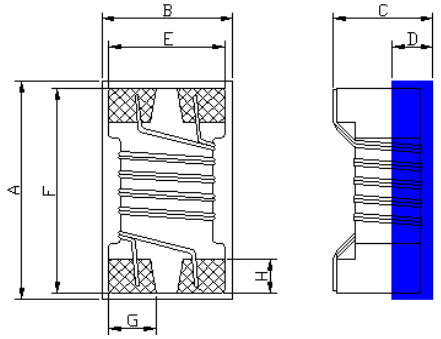
Product Identification



- Packaging: T：Tape and Reel

Shapes and Dimensions

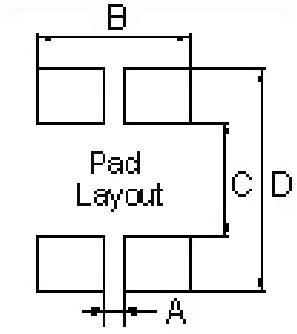
CMM0805



Dimensions in mm

A	B	C	D	E	F	G	H
2.29^{+0}	1.52^{+0}	1.20^{+0}	0.5	1.27	2.03	0.5	0.58

Recommended Pattern



Dimensions in mm

A	B	C	D
0.5	1.27	0.8	2.6

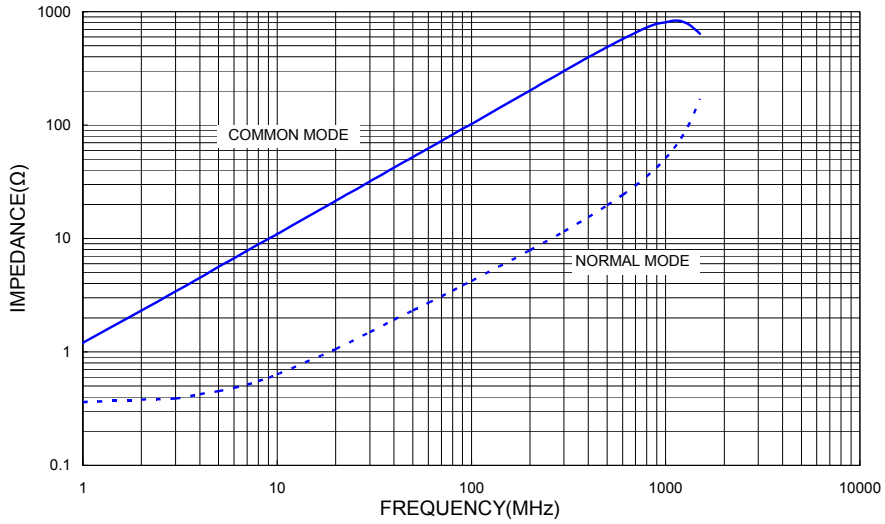
Electrical Characteristics

Part Number	Impedance (Ω)	Test Frequency (MHz)	Tolerance (±%)	Idc (mA) Max	Rated Voltage (Vdc)	Rdc (Ω) Max	Insulation Resistance (MΩ) Min
CMM0805-300M-N	30	100	20	1300	50	0.20	10
CMM0805-420M-N	42	100	20	1300	50	0.20	10
CMM0805-670M-N	67	100	20	1200	50	0.25	10
CMM0805-900M-N	90	100	20	1000	50	0.27	10
CMM0805-121M-N	120	100	20	900	50	0.30	10
CMM0805-181M-N	180	100	20	700	50	0.40	10
CMM0805-261M-N	260	100	20	700	50	0.60	10

- When ordering, please specify tolerance and packaging codes.
- Tolerance : M = ±20%
- Packaging : Clear tape and reel { standard }.
- Z : Agilent/HP4291A
- Rdc(single line) : CH502BC/ HP4338B
- Insulation Resistance : Agilent /HP4339B
- Operating temperature range from -25℃ to 85℃.

Typical Impedance vs. Frequency

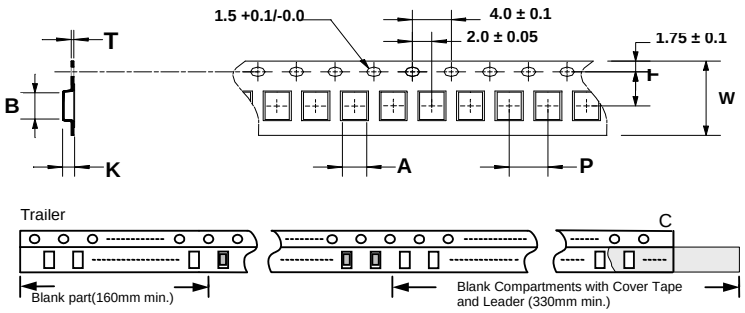
CMM0805-900M-N



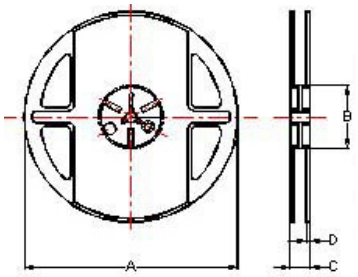
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



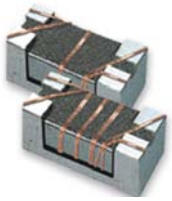
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
CMM0805	1.60	2.42	0.26	8	4	3.5	1.14	178	60	12	1.5	2000

CMMI Series **For HDMI, USB 3.0**



A full series of common mode choke is designed for excellent noise attenuation and compact sizing for use in wide range of applications. Both standard series and custom designs are available.

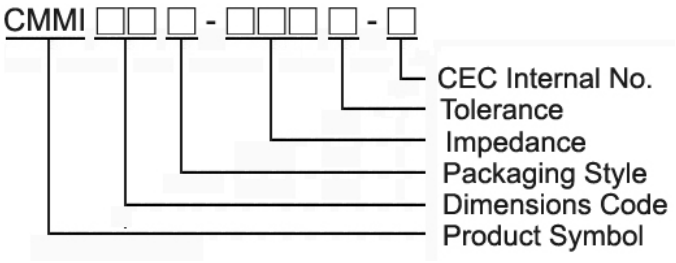
Features

- RoHS Compliant
- Miniature SMD type common mode filter for fully automated assembly
- Excellent solderability

Applications

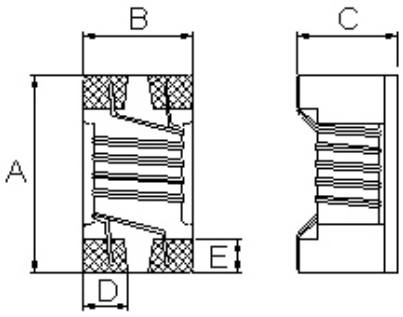
- HDMI
- USB lines (for personal computers and peripheral), DVC, STB, LVDS, panel line for liquid display panels, etc.

Product Identification



- Packaging: T：Tape and Reel

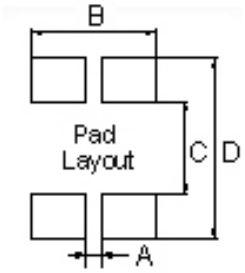
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E
CMMI21	2.05±0.2	1.25±0.2	1.20±0.2	0.50	0.58

Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
CMMI21	0.50	1.20	0.80	2.60

CHILISIN ELECTRONICS CORP.

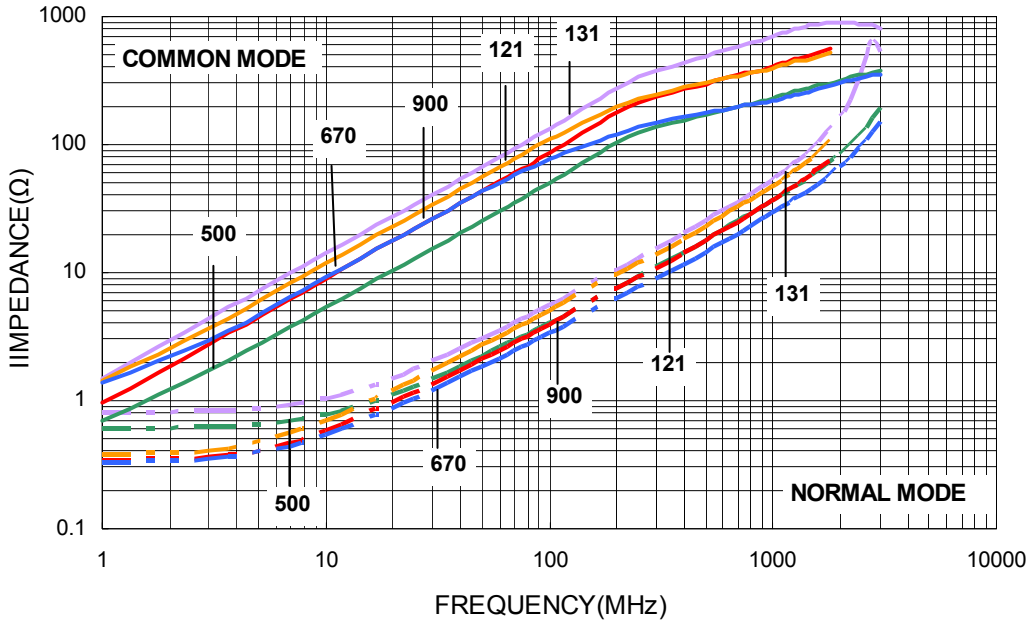
Electrical Characteristics

Part Number	Impedance (Ω)	Test Frequency (MHz)	Tolerance (±%)	Idc (mA) Max	Rated Voltage (Vdc)	Rdc (Ω) Max	Insulation Resistance (MΩ) Min
CMMI21T-500Y-N	50	100	25	500	50	0.20	10
CMMI21T-670Y-N	67	100	25	500	50	0.30	10
CMMI21T-900Y-N	90	100	25	330	50	0.35	10
CMMI21T-121Y-N	120	100	25	330	50	0.35	10
CMMI21T-131Y-N	130	100	25	300	50	0.40	10

- When ordering, please specify tolerance and packaging codes
- Tolerance : Y = ±25%
- Packaging : Clear tape and reel { standard }
- Z : HP4286A / HP4287A / Agilent E4991A + Agilent16197A
- Rdc(single line) :CH502BC
- Idc : HP4284A+HP42841A/HP4285A+HP42841A
- Insulation Resistance : Agilent /HP4339B
- Operating temperature range from -40℃ to 105℃. (Including self - temperature rise)

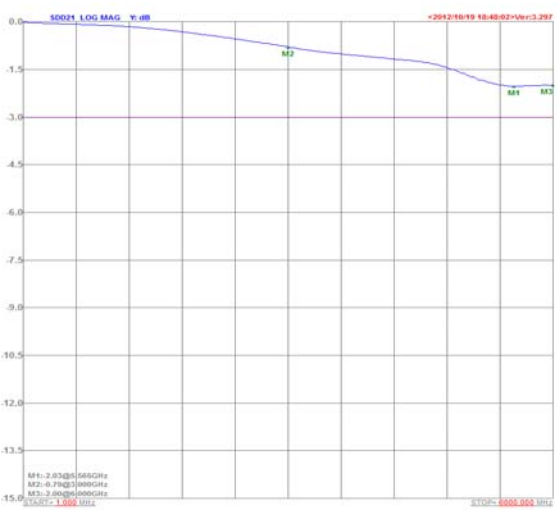
Test Instruments：HP4291A Material/Impedance Analyzer

Typical Impedance vs. Frequency

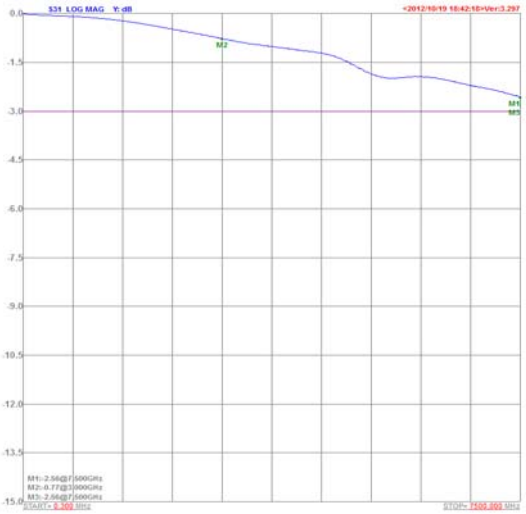


CMMI21T-500Y-N

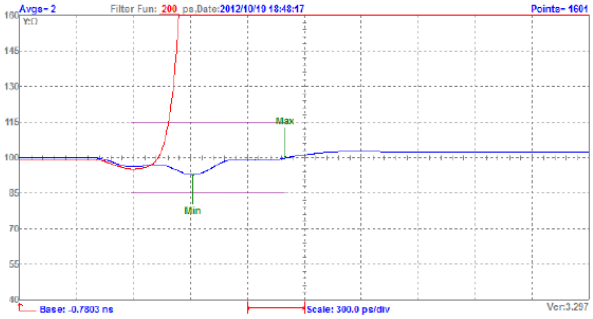
Insertion Loss For HDMI Testing:



Insertion Loss For USB3.0 Testing:

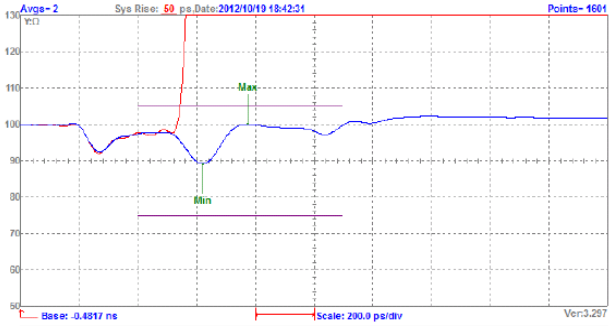


TDR For HDMI Testing:



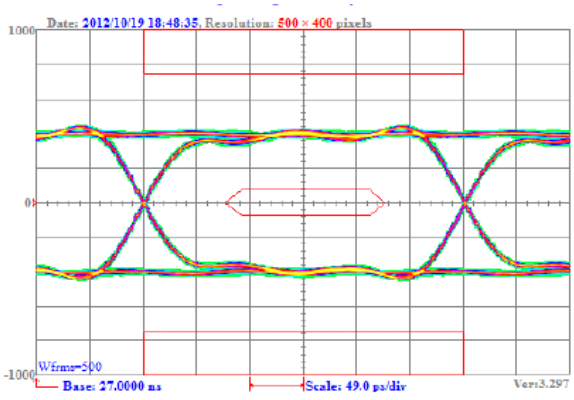
Parameter Name: HDMI Choke Impedance C1	
Spc Max: 115 Ω	Spc Min: 85 Ω
Max:99.94 Ohms at 1.0650 ns	Min:92.68 Ohms at 0.5775 ns
ΔΩ: 7.06	Avg: 96.41 Ohms
	Result: Pass

TDR For USB3.0 Testing:



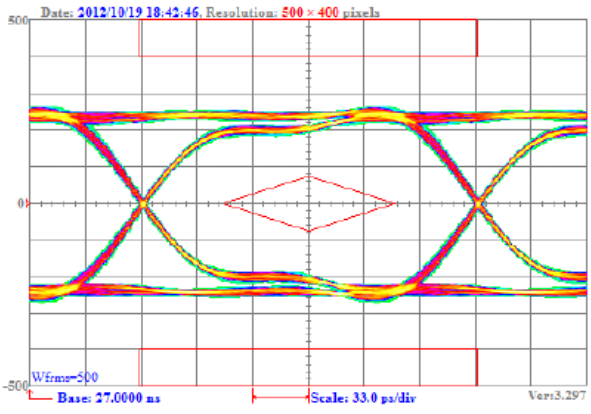
Parameter Name: Choke Impedance C1	
Spc Max: 105 Ω	Spc Min: 75 Ω
Max:100.10 Ohms at 0.7341 ns	Min:89.21 Ohms at 0.5791 ns
ΔΩ: 10.97	Avg: 94.70 Ohms
	Result: Pass

Eye Diagram For HDMI Testing:



Parameter Name: Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 3.4 Gbits/s; 294.1 ps	V: 400 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

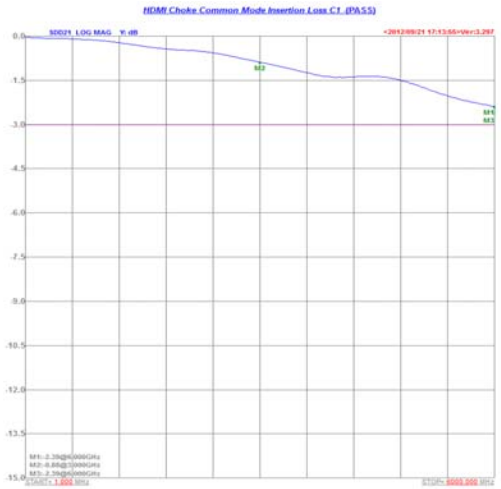
Eye Diagram For USB3.0 Testing:



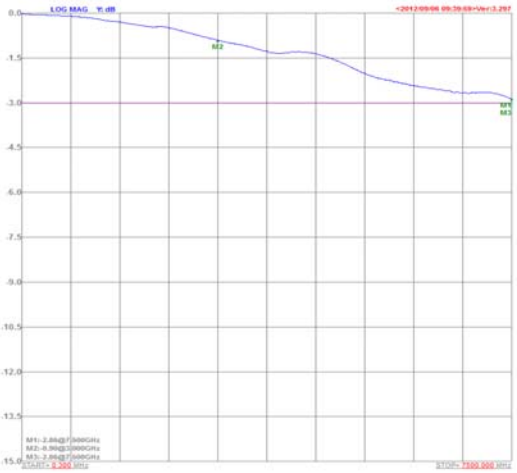
Parameter Name: USB3.0 Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 5 Gbits/s; 200.0 ps	V: 250 mV;Gain: 0 dB;Off: 0 mV
CAL: N/A,JGen: OFF	Result: Pass

CMMI21T-670Y-N

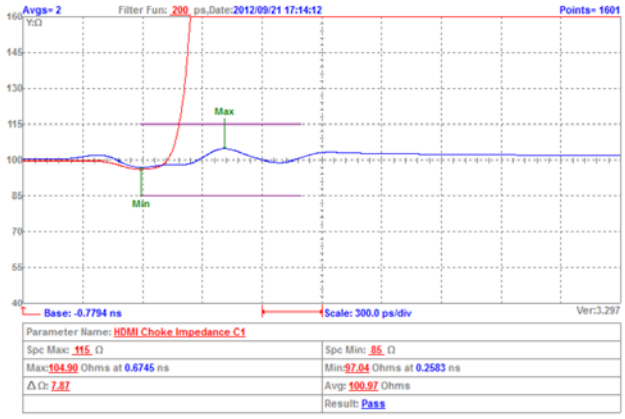
Insertion Loss For HDMI Testing:



Insertion Loss For USB3.0 Testing:

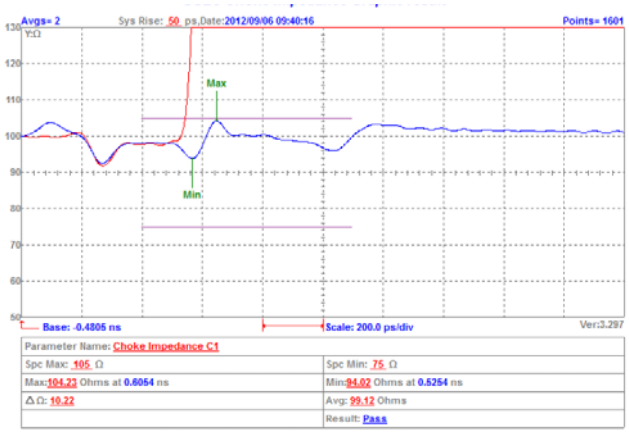


TDR For HDMI Testing:



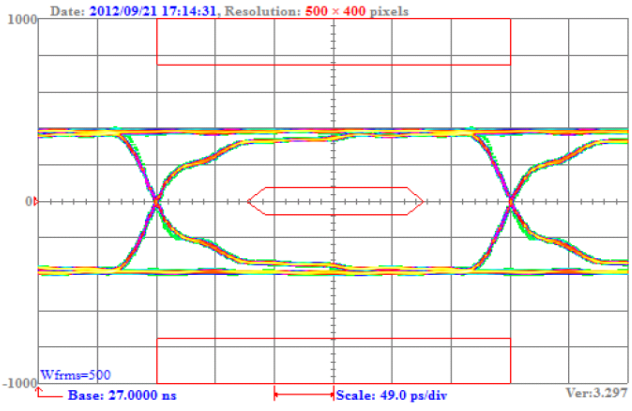
Parameter Name: HDMI Choke Impedance C1	
Spc Max: 115 Ω	Spc Min: 85 Ω
Max:104.90 Ohms at 0.6745 ns	Min:97.04 Ohms at 0.2583 ns
ΔΩ: 7.87	Avg: 100.97 Ohms
	Result: Pass

TDR For USB3.0 Testing:



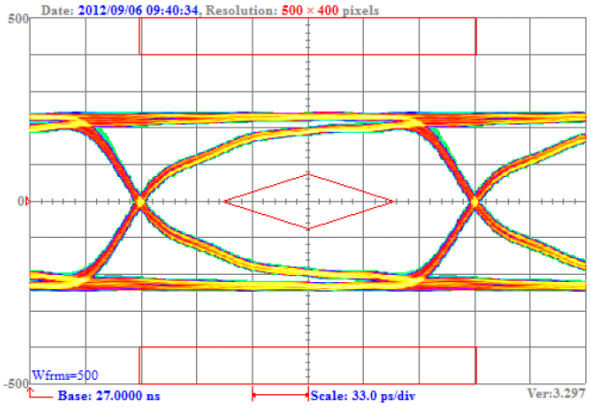
Parameter Name: Choke Impedance C1	
Spc Max: 105 Ω	Spc Min: 75 Ω
Max:104.23 Ohms at 0.6054 ns	Min:94.02 Ohms at 0.8254 ns
ΔΩ: 10.22	Avg: 99.12 Ohms
	Result: Pass

Eye Diagram For HDMI Testing:



Parameter Name: Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 3.4 Gbits/s; 294.1 ps	V: 400 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

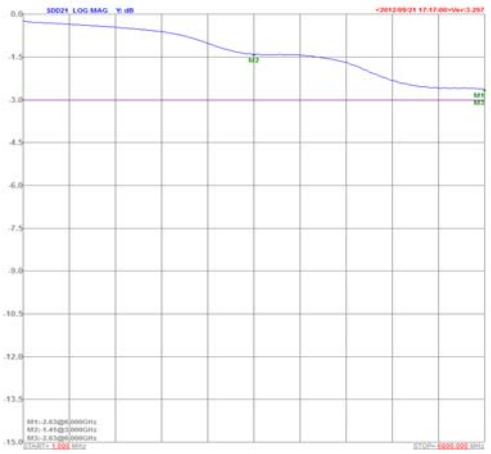
Eye Diagram For USB3.0 Testing:



Parameter Name: USB3.0 Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 5 Gbits/s; 200.0 ps	V: 250 mV;Gain: 0 dB;Off: 0 mV
CAL: N/A,JGen: OFF	Result: Pass

CMMI21T-900Y-N

Insertion Loss For HDMI Testing:



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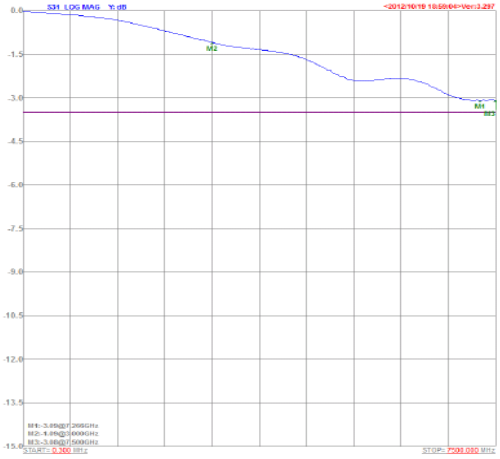

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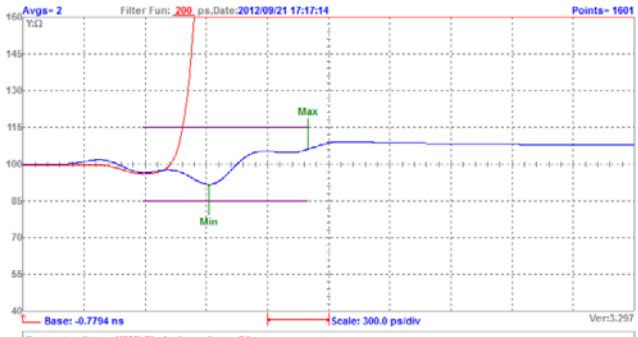
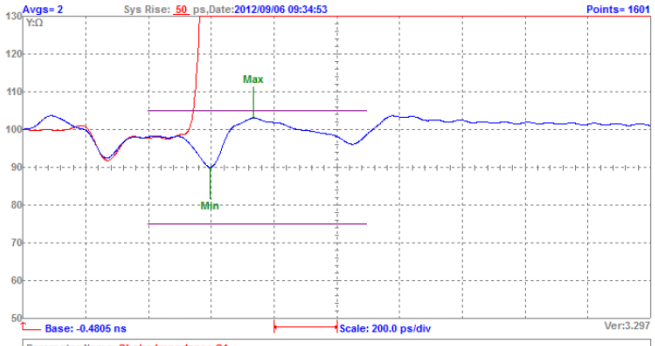


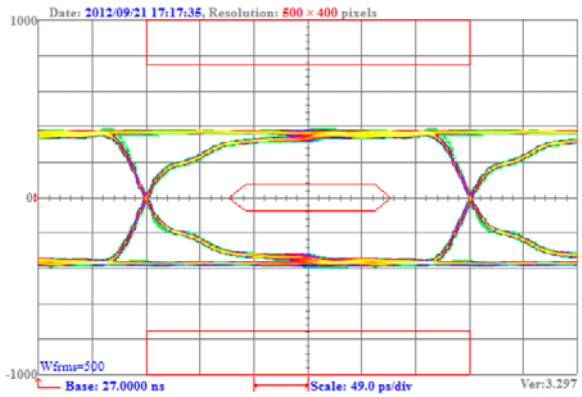
Parameter Name: HDMI Choke Impedance C1	
Spc Max: 115 Ω	Spc Min: 85 Ω
Max:106.18 Ohms at 1.0627 ns	Min:91.90 Ohms at 0.5752 ns
ΔΩ: 14.28	Avg: 99.04 Ohms
	Result: Pass

TDR For USB3.0 Testing:



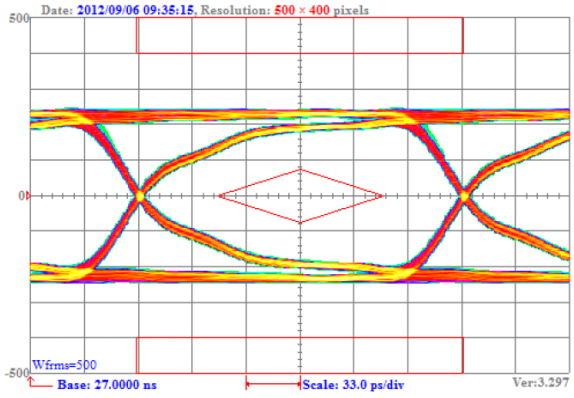
Parameter Name: Choke Impedance C1	
Spc Max: 105 Ω	Spc Min: 75 Ω
Max:103.13 Ohms at 0.6942 ns	Min:90.11 Ohms at 0.5554 ns
ΔΩ: 13.02	Avg: 96.62 Ohms
	Result: Pass

Eye Diagram For HDMI Testing:



Parameter Name: Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 3.4 Gbits/s; 294.1 ps	V: 400 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

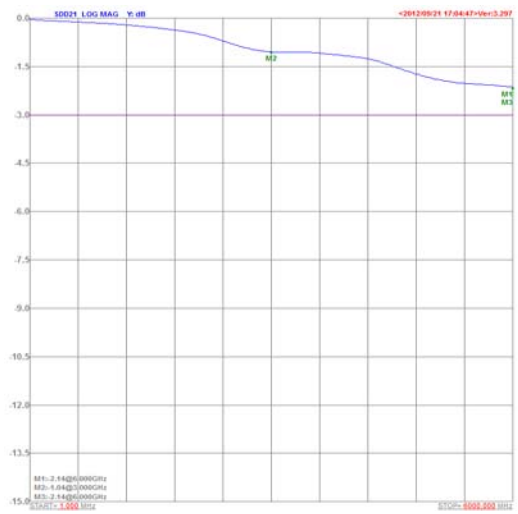
Eye Diagram For USB3.0 Testing:



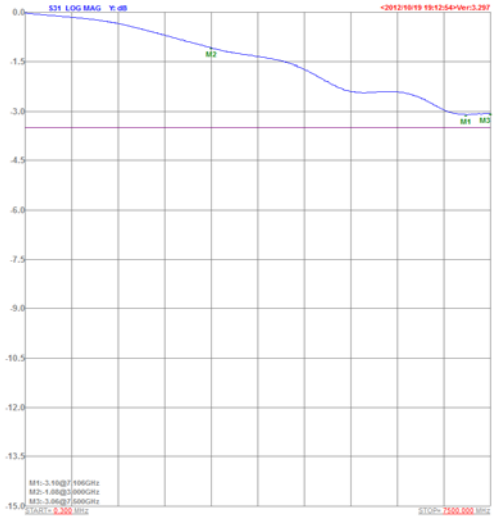
Parameter Name: USB3.0 Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 5 Gbits/s; 200.0 ps	V: 250 mV;Gain: 0 dB;Off: 0 mV
CAL: N/A,JGen: OFF	Result: Pass

CMMI21T-121Y-N

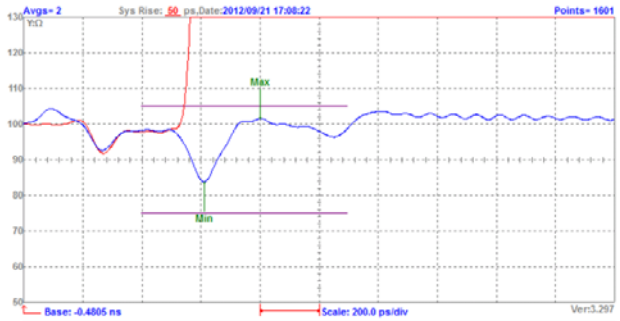
Insertion Loss For HDMI Testing:



Insertion Loss For USB3.0 Testing:

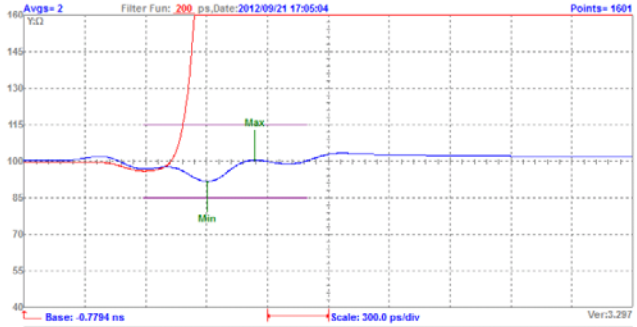


TDR For HDMI Testing:



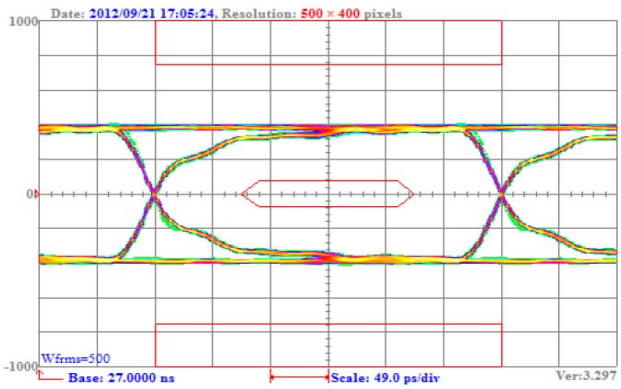
Parameter Name: Choke Impedance C1	
Spc Max: 105 Ω	Spc Min: 75 Ω
Max:101.66 Ohms at 0.7604 ns	Min:83.84 Ohms at 0.5692 ns
ΔΩ: 17.82	Avg: 92.75 Ohms
	Result: Pass

TDR For USB3.0 Testing:



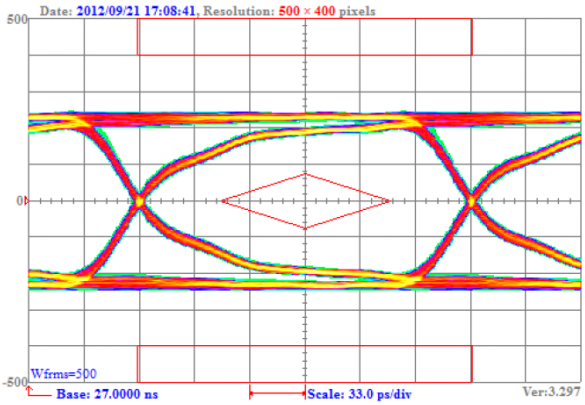
Parameter Name: HDMI Choke Impedance C1	
Spc Max: 115 Ω	Spc Min: 85 Ω
Max:100.54 Ohms at 0.8002 ns	Min:91.71 Ohms at 0.5658 ns
ΔΩ: 8.83	Avg: 96.12 Ohms
	Result: Pass

Eye Diagram For HDMI Testing:



Parameter Name: Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 3.4 Gbits/s; 294.1 ps	V: 400 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

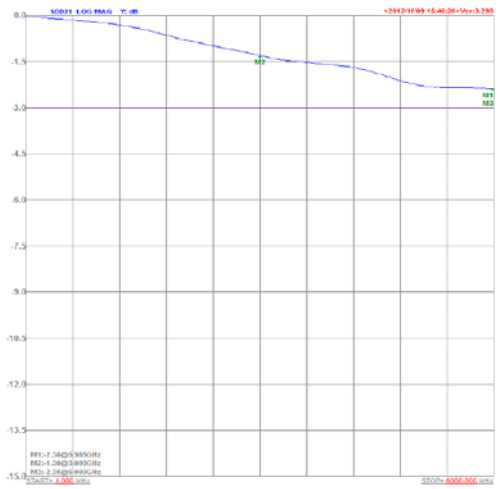
Eye Diagram For USB3.0 Testing:



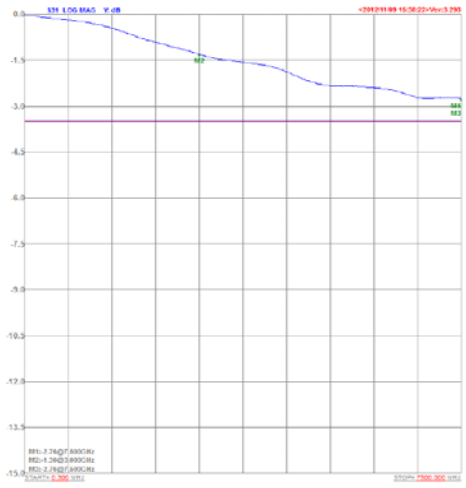
Parameter Name: USB3.0 Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 5 Gbits/s; 200.0 ps	V: 250 mV;Gain: 0 dB;Off: 0 mV
CAL: N/A,JGen: OFF	Result: Pass

CMMI21T-131Y-N

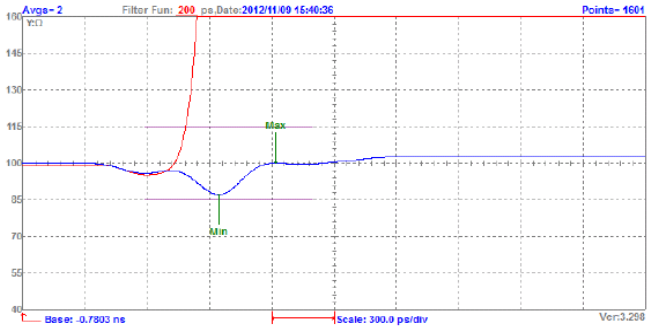
Insertion Loss For HDMI Testing:



Insertion Loss For USB3.0 Testing:

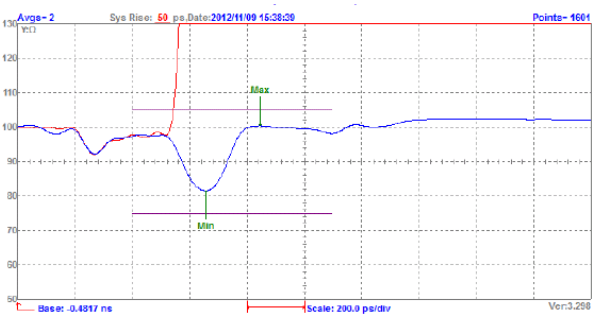


TDR For HDMI Testing:



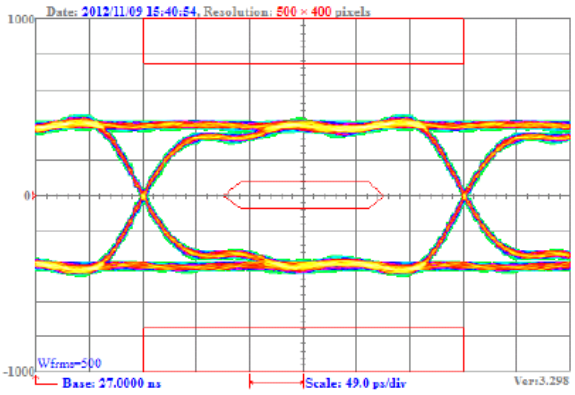
Parameter Name: HDMI Choke Impedance C1	
Spc Max: 115 Ω	Spc Min: 85 Ω
Max:100.10 Ohms at 0.0850 ns	Min:87.27 Ohms at 0.0094 ns
ΔΩ: 12.82	Avg: 93.68 Ohms
	Result: Pass

TDR For USB3.0 Testing:



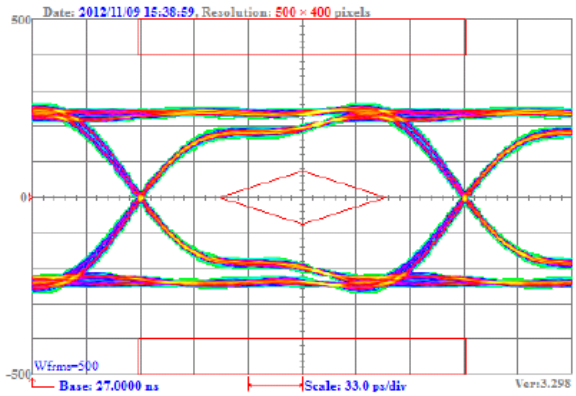
Parameter Name: Choke Impedance C1	
Spc Max: 105 Ω	Spc Min: 75 Ω
Max:100.40 Ohms at 0.0054 ns	Min:81.65 Ohms at 0.0154 ns
ΔΩ: 18.81	Avg: 91.06 Ohms
	Result: Pass

Eye Diagram For HDMI Testing:



Parameter Name: Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 3.4 Gbits/s; 294.1 ps	V: 400 mV;Gain: 0 dB;Off: 0 mV
CAL: DONE,JGen: OFF	Result: Pass

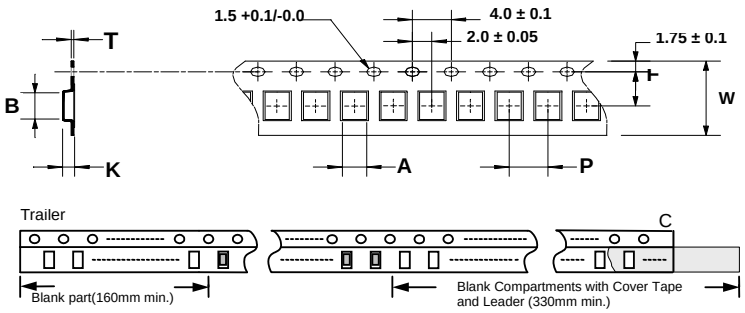
Eye Diagram For USB3.0 Testing:



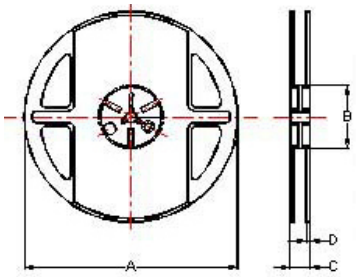
Parameter Name: USB3.0 Choke Eye Diagram C1	
Display Mode: Not a standard mode	
dRate: 5 Gbits/s; 200.0 ps	V: 250 mV;Gain: 0 dB;Off: 0 mV
CAL: N/A,JGen: OFF	Result: Pass

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
CMMI21	1.50	2.25	0.24	8	4	3.5	1.45	178	60	12	1.5	2000

SBCB Series

These surface mount filters are specially designed to virtually eliminate the problems of conducted EMI in data line applications. They provide both differential and common mode noise attenuation.

These components contain tremendous electrode straight, solder heat resistance and outstanding solderability. These products are designed for flow, reflow and wave soldering required for surface mounting applications.

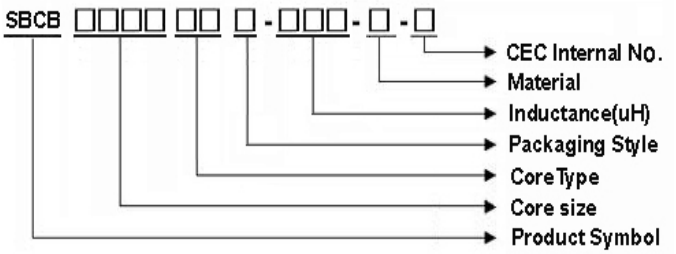
Features

- RoHS Compliant
- Compatible with auto insertion equipment and easy installed for PC board
- four lines for voice and data line
- Compact and high performance

Applications

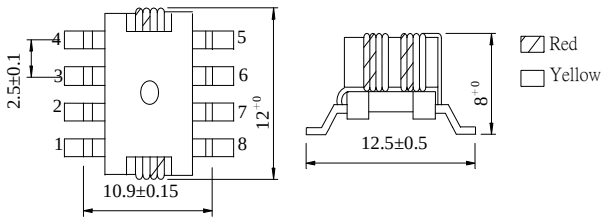
- Attenuating noise of analog and digital signals for telecommunication devices
- Prevention of interference from amateur radios, CB stations, or high frequency welders, etc

Product Identification

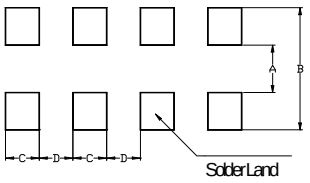


- Packaging: T：Tape and Reel

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
SBCB1104	8.0	13.0 ~ 14.0	1.15	2.0

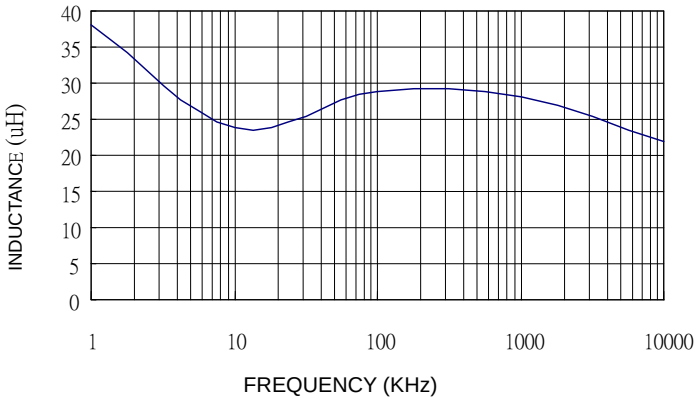
CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Test Frequency (KHz) 0.6V	Inductance L(μH)	DC Resistance (Ω) Max
SBCB1104RIT-330-B3-N	100	25~50	0.07

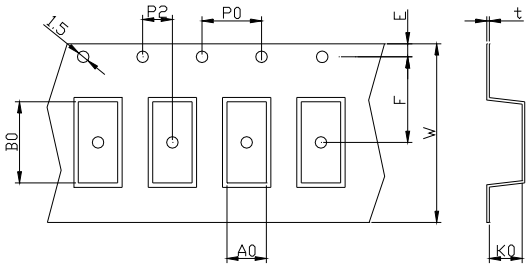
Test Instruments：HP4192A LF Impedance Analyzer

SBCB1104RI-330-B3-N

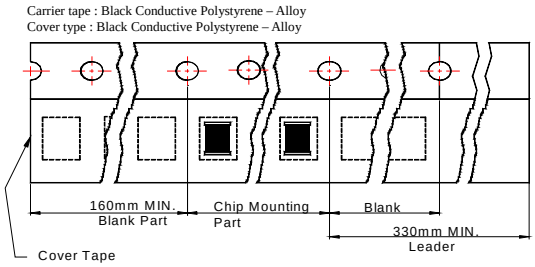


Packaging Specifications

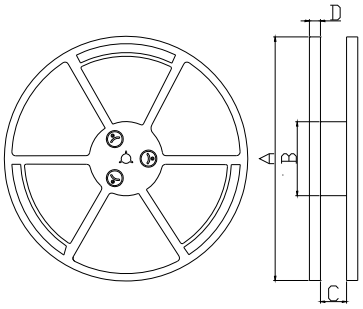
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	W	E	F	P0	P2	A0	B0	K0	t	A	B	C	D	PCS / Reel
SBCB1104	24	1.75	11.5	4	2	12.4	15.5	9.1	0.36	330	100	24.4	2.4	350

SBCB Series

SBCB Series is a dual wound common mode choke ideal for common mode noise attenuation in twisted pair cable interfaces as well as IEEE 1394 applications. An excellent impedance balance between two sets of twisted pairs is achieved by winding across a signal core. One SBCB common mode choke coil per interface port is possible with this dual winding configuration.

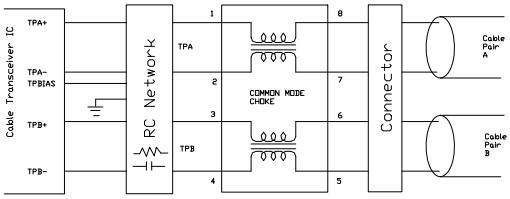
Features

- RoHS Compliant
- Dual Common-mode choke coils
- 8-pin, half inch-pitch SMD type

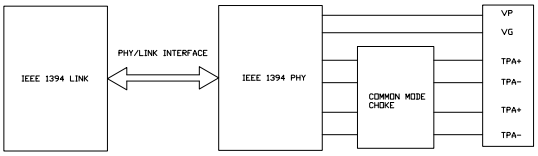
Applications

- Preventive measure against USB & IEEE1394 radiation emissions
- Suppresses radiated emissions from peripheral devices
- Personal computer (Desk-top, Note-book) game computer, Digital Camera, etc
- Use of high performance ferrite for excellent high frequency characteristics

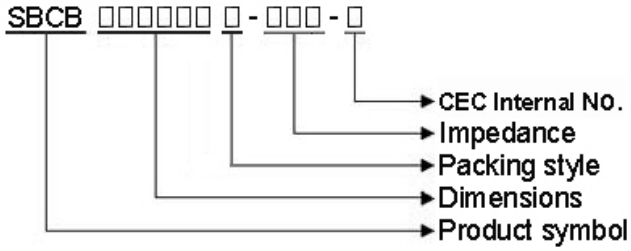
Twisted Pair Cable Interface



IEEE 1394 Port

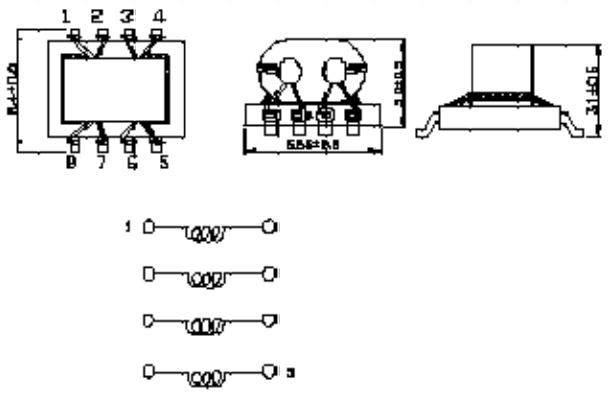


Product Identification

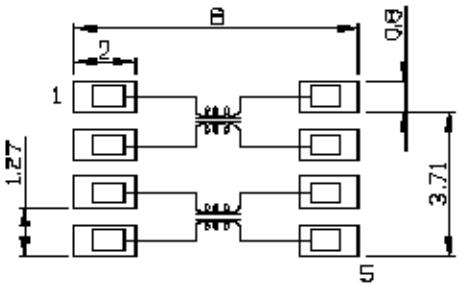


- Packaging: T：Tape and Reel

Shape and Dimensions



Recommended Pattern



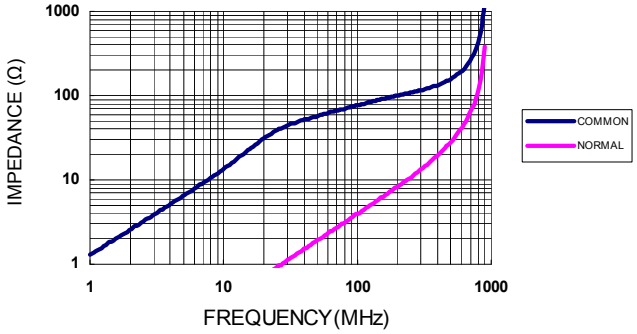
CHILISIN ELECTRONICS CORP.

Common Mode Choke For USB2.0 & IEEE1394 Applications

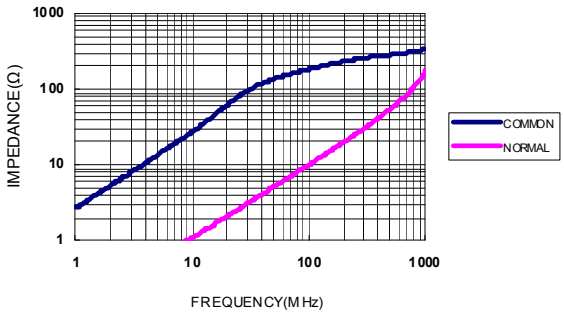
Electrical Characteristics

Part Number	Impedance (Ω) COMMON MODE @10MHz (Ω) Min	Impedance (Ω) COMMON MODE @100MHz (Ω) Min	Impedance (Ω) NORMAL MODE @10MHz (Ω) Min	Impedance (Ω) NORMAL MODE @100MHz (Ω) Min
SBCB656030T-900-N	9	60	2	9
SBCB656030T-181-N	15	150	3	16
SBCB656030T-301-N	20	200	3	20
SBCB656030T-601-N	25	480	3	15

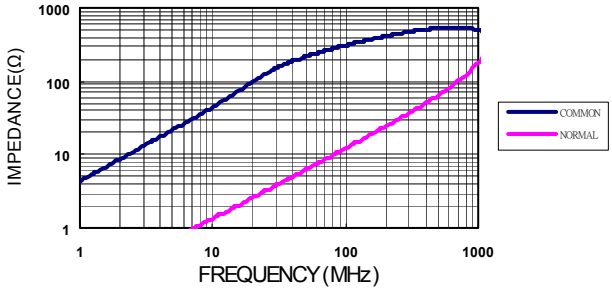
SBCB656030T-900-N



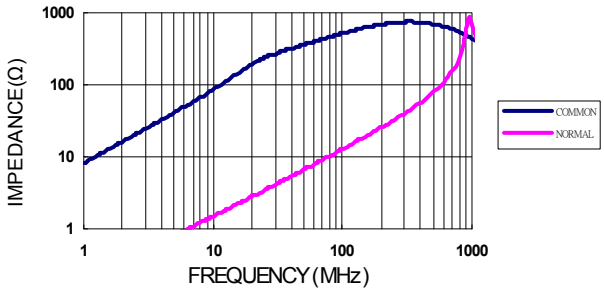
SBCB656030T-181-N



SBCB656030T-301-N

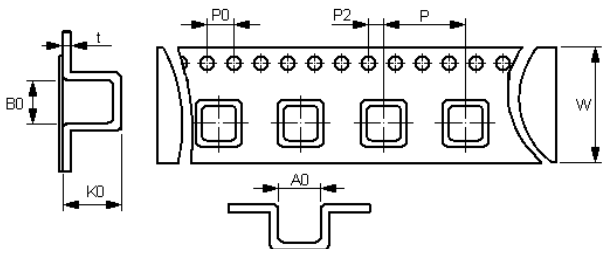


SBCB656030T-601-N

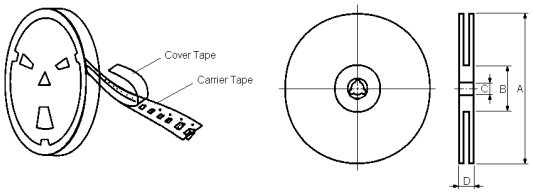


Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions W	P	P0	P2	A0	B0	K0	t	Reel Dimensions A	B	C	D	Quantity PCS / Reel
SBCB656030	16.0	12	4.0	2.0	6.9	6.1	3.5	0.4	330	100	13.0	21.0	1000

CHILISIN

Total Solution Provider for EMI, Power and RF.

Inductors

Leaded Components

奇力新2011封面-2.jpg (1228 x 1745 x 24)

DMI Series

DIM series is designed with low RDC and ultra large current. Its molded magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also Provides customers with embossed carrier type packaging for automatic mounting machine.

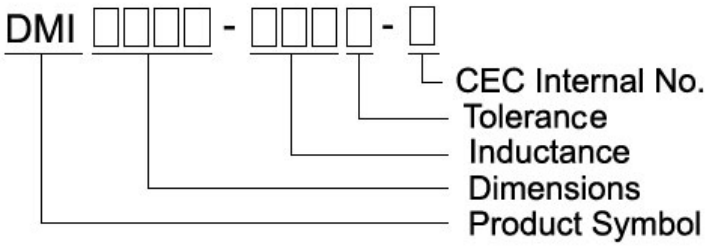
Features

- Shield construction
- Ultra low buzz noise, due to un-assembly structure
- 100% Lead free

Applications

- High density DC/DC converters
- POL convertes
- High current VRM/VRD for notebook / Server / desktop CPUs
- High speed charger

Product Identification



Shapes and Dimensions

FIG 1

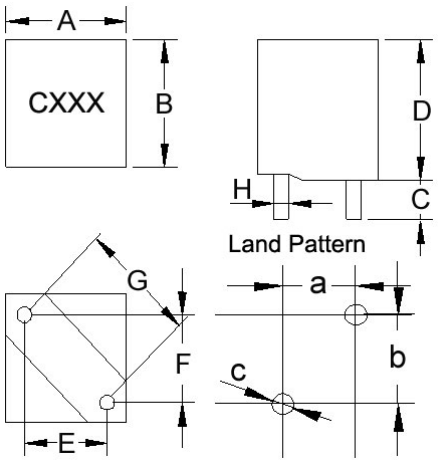


FIG 2

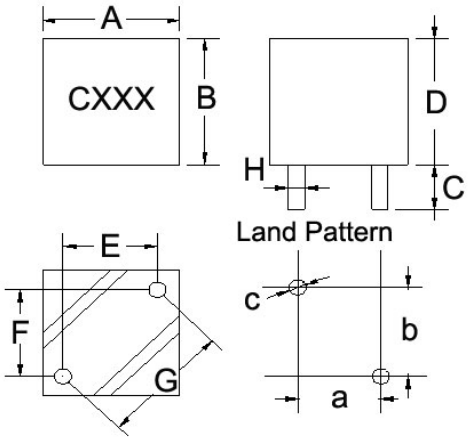
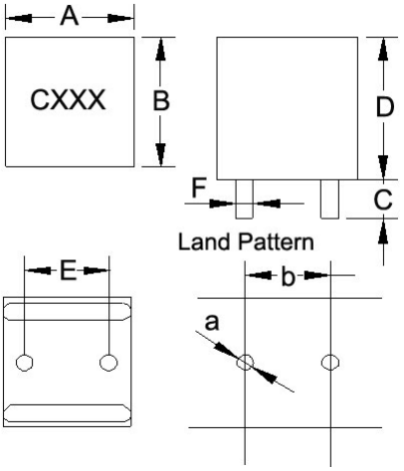


FIG 3



CHILISIN ELECTRONICS CORP.

Dimensions in mm

TYPE	FIG	A	B	C	D	E	F	G	H	a	b	c
DMI0807-1R0M-N	3	8.5±0.5	8.5±0.5	3.4±0.5	7.5Max	5.0±0.5	0.8ø±0.1	-	-	1.3	5.5	-
DMI0808-R30M-N	1	8.5Max	8.5Max	3.4±0.5	9.0Max	4.7±0.5	4.7±0.5	6.6±0.5	1.1ø±0.1	5.2	5.2	1.6
DMI0808-1R0M-N	3	9.0Max	9.0Max	3.4±0.5	9.0Max	5.0±0.5	0.8ø±0.1	-	-	1.3	5.5	-
DMI0809-R56M-N	2	8.5Max	8.5Max	3.4±0.5	9.5Max	4.7±0.5	4.7±0.5	$6.6^{+0.3}_{-0.5}$	1.2ø±0.1	5.2	5.2	1.7
DMI0809-1R0M-N	1	8.0Max	8.0Max	3.4±0.5	9.5Max	4.2±0.5	4.2±0.5	5.9±0.5	1.1ø±0.1	4.7	4.7	1.6
DMI0809-2R2M-N	1	8.0Max	8.0Max	3.4±0.5	9.5Max	4.2±0.5	4.2±0.5	5.9±0.5	0.9ø±0.1	4.7	4.7	1.4
DMI0909-R25M-N	2	9.0Max	8.2Max	3.4±0.5	9.5Max	6.5±0.5	2.7±0.5	6.85±0.5	1.2ø±0.1	7.0	3.2	1.7
DMI1009-R68M-N	2	10.5Max	10.5Max	3.4±0.5	9.8Max	5.6±0.5	5.6±0.5	7.9±0.5	1.4ø±0.1	6.1	6.1	1.9
DMI1009-1R2M-N	2	10.5Max	10.5Max	3.4±0.5	9.8Max	5.6±0.5	5.6±0.5	7.9±0.5	1.3ø±0.1	6.1	6.1	1.8
DMI1108-R30M-N	1	11.5Max	9.5Max	3.4±0.5	8.5Max	6.6±0.5	4.2±0.5	7.8±0.5	1.5ø±0.1	7.1	4.7	2.0
DMI1108-R36M-N	1	11.7Max	9.7Max	3.5±0.5	8.8Max	6.6±0.5	4.2±0.5-	7.8±0.5	1.4ø±0.1	7.1	4.7	1.9
DMI1108-R60M-N	1	11.7Max	11.7Max	3.5±0.5	8.5Max	6.3±0.5	5.7±0.5	8.5±0.5	1.5ø±0.1	6.8	6.2	2.0
DMI1108-1R8M-N	1	11.7Max	11.7Max	3.5±0.5	8.5Max	6.6±0.5	6.6±0.5	9.3±0.5	1.2ø±0.1	7.1	7.1	1.7
DMI1109-R30M-N	1	11.5±0.5	11.5±0.5	3.4±0.5	9.5±0.5	7.3±0.5	6.0±0.5	9.4±0.5	1.4ø±0.1	7.8	6.5	1.9
DMI1109-R56M-N	1	11.7Max	9.7Max	3.5±0.5	9.5Max	6.6±0.5	4.2±0.5	7.8±0.5	1.3ø±0.1	7.1	4.7	1.8
DMI1109-R68M-N	2	11.8Max	11.8Max	3.4±0.5	9.8Max	6.7±0.5	6.0±0.5	$9^{+0.3}_{-0.5}$	1.5ø±0.1	7.2	6.5	2.0
DMI1109-1R2M-N	2	11.5Max	11.5Max	3.4±0.5	9.8Max	6.7±0.5	6.0±0.5	$9^{+0.3}_{-0.5}$	1.5ø±0.1	7.2	6.5	2.0
DMI1109-1R5M-N	1	11.5±0.5	11.5±0.5	3.4±0.5	9.5±0.5	7.3±0.5	7.3±0.5	10.3±0.5	1.4ø±0.1	7.8	7.8	1.9
DMI1110-R60M-N	1	11.6Max	11.6Max	3.4±0.5	10Max	7.3±0.5	6.0±0.5	9.4±0.3	1.4ø±0.1	7.8	6.5	1.9
DMI1110-1R1M-N	1	11.6Max	11.6Max	3.2±0.5	10Max	6.7±0.5	6.0±0.5	9.0±0.5	1.4ø±0.1	7.2	6.5	1.9
DMI1208-R22M-N	2	12Max	12Max	3.4±0.5	8.0Max	7.3±0.5	6.0±0.5	9.4±0.5	1.4ø±0.1	7.8	6.5	1.9
DMI1208-R36M-N	1	11.5±0.5	11.5±0.5	3.5±0.5	7.4±0.2	5.7±0.5	6.3±0.5	8.5±0.5	1.5ø±0.1	6.2	6.8	2.0
DMI1208-R47M-N	2	12Max	12Max	3.4±0.5	8.0Max	7.3±0.5	6.0±0.5	9.4±0.5	1.4ø±0.1	7.8	6.5	1.9
DMI1208-R56M-N	2	12Max	12Max	3.4±0.5	8.0Max	7.3±0.5	6.0±0.5	9.4±0.5	1.4ø±0.1	7.8	6.5	1.9
DMI1209-R33M-N	2	12Max	12Max	3.4±0.5	9.0Max	7.3±0.5	6.0±0.5	9.4±0.5	1.4ø±0.1	7.8	6.5	1.9
DMI1209-R47M-N	2	12Max	12Max	3.4±0.5	9.0Max	7.3±0.5	6.0±0.5	9.4±0.5	1.4ø±0.1	7.8	6.5	1.9
DMI1209-R68M-N	2	12Max	12Max	3.4±0.5	9.0Max	7.3±0.5	6.0±0.5	9.4±0.5	1.4ø±0.1	7.8	6.5	1.9
DMI1209-1R0M-N	2	12Max	12Max	3.4±0.5	9.0Max	7.3±0.5	6.0±0.5	9.4±0.5	1.5ø±0.1	7.8	6.5	2.0
DMI1209-2R5M-N	1	12Max	12Max	3.4±0.5	9.0Max	6.6±0.5	6.6±0.5	9.3±0.5	1.2ø±0.1	7.1	7.1	1.7
DMI1210-R30M-N	1	12Max	12Max	3.4±0.5	10Max	7.3±0.5	6.0±0.5	9.4±0.5	1.4ø±0.1	7.8	6.5	1.9
DMI1210-R47M-N	1	12Max	12Max	3.4±0.5	10Max	7.3±0.5	6.0±0.5	9.4±0.5	1.4ø±0.1	7.8	6.5	1.9
DMI1210-1R8M-N	2	12Max	12Max	3.4±0.5	10.5Max	6.0±0.5	6.0±0.5	8.5±0.5	1.1ø±0.1	6.5	6.5	1.6
DMI1210-4R7M-N	1	12Max	12Max	3.4±0.5	12Max	7.0±0.5	7.0±0.5	10±0.5	1.1ø±0.1	7.5	7.5	1.6

Electrical Characteristics

Part Number	Inductance (㎶H)	Tolerance (±%)	Test Frequency (KHz)	RDC (mΩ) Max	Isat (A) Typ	Irms (A) Typ
DMI0808-R30M-N	0.30	20	100/ 1V	1.0	35	32
DMI0808-1R0M-N	1.00	20	100/ 1V	4.0	12	16
DMI0809-R56M-N	0.56	20	100/ 1V	1.3	25	25
DMI0809-1R0M-N	1.00	20	100/ 1V	1.8	23	35
DMI0809-2R2M-N	2.20	20	100/ 1V	3.5	13	17
DMI0909-R25M-N	0.25	20	100/ 1V	0.8	28	35
DMI1108-R30M-N	0.30	20	100/ 1V	1.0	50	38
DMI1108-R36M-N	0.36	20	100/ 1V	0.7	50	43
DMI1108-1R8M-N	1.80	20	100/ 1V	3.0	24	24
DMI1109-R56M-N	0.56	20	100/ 1V	1.08	50	37
DMI1109-R68M-N	0.68	20	100/ 1V	1.2	40	35
DMI1110-R60M-N	0.60	20	100/ 1V	1.2	40	42
DMI1110-1R1M-N	1.10	20	100/ 1V	1.5	35	28
DMI1208-R22M-N	0.22	20	100/ 1V	0.6	75	38
DMI1208-R47M-N	0.47	20	100/ 1V	0.9	55	38
DMI1208-R56M-N	0.56	20	100/ 1V	0.9	45	38
DMI1209-R33M-N	0.33	20	100/ 1V	0.9	70	35
DMI1209-R47M-N	0.47	20	100/ 1V	0.9	50	38
DMI1209-R68M-N	0.68	20	100/ 1V	1.2	45	35
DMI1209-1R0M-N	1.00	20	100/ 1V	1.5	35	35
DMI1209-2R5M-N	2.50	20	100/ 1V	2.6	25	27
DMI1210-R47M-N	0.47	20	100/ 1V	1.0	50	30
DMI1210-1R8M-N	1.80	20	100/ 1V	3.3	29	22
DMI1210-4R7M-N	4.70	20	100/ 1V	6.0	12	17

- Customized Specifications are welcome .
- Isat for inductance drops 20% from its value without current
- Irms for a 40℃ rise above 25℃ ambient.
- Tested L: WK4237METER

  RDC: HK502BC METER

  Isat、Irms : WK3260B/ 3265B METER

Electrical Characteristics

Part Number	Inductance (㎶H)	Tolerance (±%)	Test Frequency (KHz)	RDC (mΩ) Max	Isat (A) Typ	Irms (A) Typ
DMI0807-1R0M-N	1.00	20	100/ 1V	4.0	28	15
DMI1009-R68M-N	0.68	20	100/ 1V	1.2	49	30
DMI1009-1R2M-N	1.20	20	100/ 1V	1.7	33	28
DMI1108-R60M-N	0.60	20	100/ 1V	1.0	40	35
DMI1109-R30M-N	0.30	20	100/ 1V	0.7	46	40
DMI1109-1R2M-N	1.20	20	100/ 1V	1.2	40	30
DMI1109-1R5M-N	1.50	20	100/ 1V	1.85	42	28
DMI1208-R36M-N	0.36	20	100/ 1V	0.8	60	40
DMI1210-R30M-N	0.30	20	100/ 1V	0.65	45	40

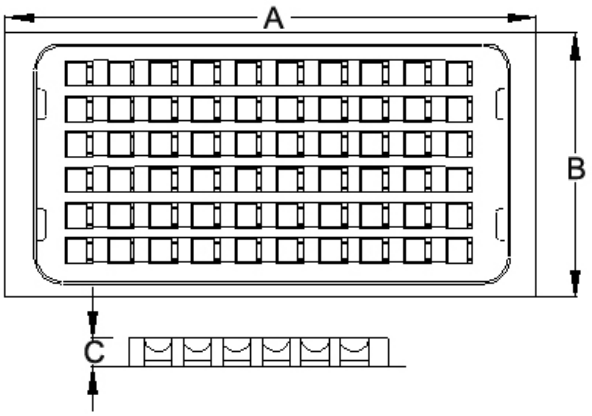
- Customized Specifications are welcome .
- Isat for inductance drops 30% from its value without current
- Irms for a 40℃ rise above 25℃ ambient.
- Tested L: WK4237METER

  RDC: HK502BC METER

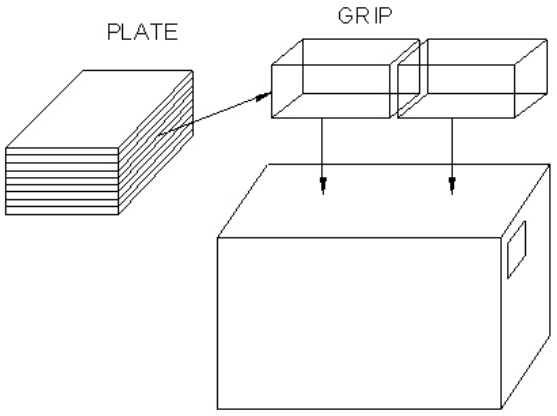
  Isat、Irms : WK3260B/ 3265B METER

Packaging

PLATE DIMENSIONS



PACKAGING QUANTITY



Dimensions in mm

TYPE	PLATE DIMENSIONS			QUANTITY				
	A	B	C	BULK	PLATE	PLATE/GRIP	GRIP	BOX
DMI0707	250	220	10	˅	100	10	2	2000
DMI0807	250	220	10	˅	100	10	2	2000
DMI0808	250	220	10	˅	100	10	2	2000
DMI0809	250	220	10	˅	100	10	2	2000
DMI0909	250	220	13.5	˅	100	8	2	1600
DMI1009	250	220	13.5	˅	100	8	2	1600
DMI1108	250	220	13.5	˅	100	8	2	1600
DMI1109	250	220	13.5	˅	100	8	2	1600
DMI1110	250	220	13.5	˅	100	8	2	1600
DMI1208	250	220	13.5	˅	100	8	2	1600
DMI1209	250	220	13.5	˅	100	8	2	1600
DMI1210	250	220	13.5	˅	100	8	2	1600
DMI1212	250	220	13.5	˅	100	8	2	1600
DMI1213	250	220	12	˅	50	8	2	800
DMI1214	250	220	12	˅	50	8	2	800
DMI1215	250	220	12	˅	50	8	2	800

CPU Series

CPU series is designed for low RDC and ultra large current application. Its assembly model magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

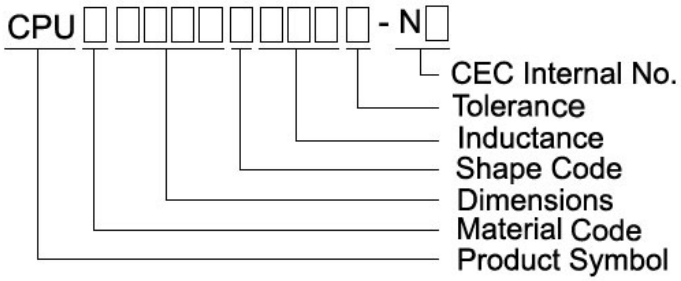
Features

- The products contain no Halogen Free and also support Halogen Free products
- Excellent for power line DC-DC conversion applications
- Shielded construction
- Lowest DCR/ uH, in this package series
- Handle high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction

Applications

- Excellent for power line DC-DC conversion applications used in power switching, personal computers and other handheld electronic equipment

Product Identification



Shapes and Dimensions

FIG 1

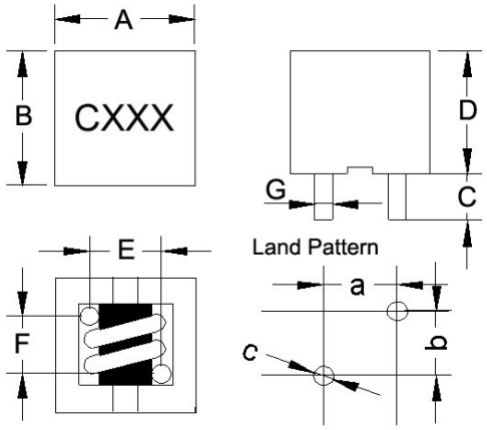


FIG 2

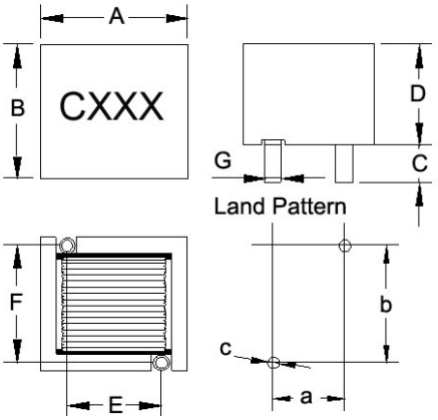


figure 2:

CPUX1210-101M

CPUX1210-121M

CPUX1210-221M

Dimensions in mm

TYPE	A	B	C	D	E	F	G	a	b	c
CPUX0806N	8.2^{+0}	8.2^{+0}	3.5±0.5	7.0^{+0}	4.4±0.5	4.5±0.5	0.7±0.1	4.9	5.0	1.0
CPUX0808N	8.2^{+0}	8.2^{+0}	3.5±0.5	9.5^{+0}	4.5±0.5	4.0±0.5	0.7±0.1	5.0	4.5	0.9
CPUX1008N	11.7^{+0}	9.7^{+0}	3.5±0.5	9.5^{+0}	7.0±0.5	4.7±0.5	1.1±0.1	7.5	5.2	1.2
CPUX1009N	11.0^{+0}	11.0^{+0}	3.4±0.5	10.0^{+0}	6.0±0.5	4.5±0.5	1.4±0.1	6.5	5.0	1.8
CPUX1108N	11.5^{+0}	11.5^{+0}	3.4±0.5	9.5^{+0}	6.8±0.5	6.8±0.5	1.0±0.1	7.3	7.3	1.4
CPUX1208N	11.7^{+0}	11.7^{+0}	3.4±0.5	8.0^{+0}	7.1±0.5	6.4±0.5	1.1±0.1	7.6	6.9	1.2
CPUX1210N	11.7^{+0}	11.7^{+0}	3.4±0.5	10.0^{+0}	7.0±0.5	6.0±0.5	1.5±0.1	7.5	6.5	1.9

Electrical Characteristics

Part Number	Inductance (㎷H)	Tolerance (±%)	Test Frequency (KHz)	RDC (mΩ) Max	Isat (A) Typ	Irms (A) Typ
CPUI0806N-R25M-N	0.25	20	100	1.20	30	28
CPUI0806N-R47M-N	0.47	20	100	2.00	20	20
CPUI0806N-R80M-N	0.80	20	100	3.00	20	18
CPUI0806N-1R0M-N	1.00	20	100	4.30	18	15
CPUI0806N-1R2M-N	1.20	20	100	3.00	20	18
CPUI0806N-2R2M-N	2.20	20	100	4.50	8.0	13
CPUI1008N-R50M-N	0.50	20	100	0.87	35	30
CPUI1008N-1R0M-N	1.00	20	100	2.00	40	18
CPUI1108N-R25M-N	0.25	20	100	1.20	30	28
CPUI1108N-R30M-N	0.30	20	100	1.20	30	28
CPUI1108N-R60M-N	0.60	20	100	1.07	38	26
CPUI1108N-1R0M-N	1.0	20	100	1.30	35	31
CPUI1108N-2R5M-N	2.5	20	100	4.70	24	18
CPUI1108N-5R0M-N	5.0	20	100	9.20	16	10
CPUI1210N-R30M-N	0.30	20	100	0.80	40	38
CPUI1210N-R50M-N	0.50	20	100	1.12	40	35
CPUI1210N-R68M-N	0.68	20	100	0.80	40	35
CPUI1210N-1R0M-N	1.00	20	100	1.30	30	25
CPUI1210N-2R5M-N	2.50	20	100	5.00	24	14
CPUI1210N-3R0M-N	3.00	20	100	6.30	20	14
CPUI1210N-8R5M-N	8.50	20	100	19.6	11	7.0
CPUI1210N-100M-N	10.0	20	100	19.5	11	7.0

- Isat for inductance drops 20% from its value without current
- Irms for a 40℃ rise above 25℃ ambient.
- Customized Specifications are welcome.
- Tested L: WK4237METER

  RDC: HK502BC METER

  Isat、Irms : WK3260B/ 3265B METER

Electrical Characteristics

Part Number	Inductance (㎶)	Tolerance (±%)	Test Frequency (KHz)	RDC (mΩ) Max	Isat (A) Typ	Irms (A) Typ
CPUN0808N-R47M-N	0.47	20	100	2.0	20	18
CPUN0808N-1R0M-N	1.00	20	100	3.5	15	14
CPUN0808N-1R2M-N	1.20	20	100	1.7	15	18
CPUN0808N-2R2M-N	2.20	20	100	8.0	15	10
CPUN0808N-4R7M-N	4.70	20	100	18.6	10.5	7.5
CPUN0808N-100M-N	10.0	20	100	53	3.0	4.2
CPUN0808N-150M-N	15.0	20	100	65	3.0	2.0
CPUN0808N-330M-N	33.0	20	100	110	4.0	3.0
CPUN1008N-R22M-N	0.22	20	100	0.75	40	32
CPUN1008N-R36M-N	0.36	20	100	0.75	30	30
CPUN1008N-1R0M-N	1.00	20	100	1.21	20	30
CPUN1009N-R30M-N	0.30	20	100	0.65	50	36
CPUN1009N-R50M-N	0.50	20	100	0.78	30	30
CPUN1009N-1R0M-N	1.00	20	100	1.8	24	28
CPUN1009N-1R2M-N	1.20	20	100	2.5	10	10
CPUN1009N-150M-N	15.0	20	100	51.6	1.8	4
CPUN1009N-121M-N	120	20	100	280	1.5	1
CPUN1208N-R25M-N	0.25	20	100	0.80	50	38
CPUN1208N-R47M-N	0.47	20	100	1.0	35	28
CPUN1208N-1R0M-N	1.00	20	100	1.3	35	31
CPUN1208N-2R0M-N	2.00	20	100	3.2	25	20
CPUN1208N-3R3M-N	3.00	20	100	6.3	25	14
CPUN1210N-R25M-N	0.25	20	100	0.6	60	40
CPUN1210N-R47M-N	0.47	20	100	0.8	50	35
CPUN1210N-1R0M-N	1.00	20	100	1.45	40	35
CPUN1210N-1R2M-N	1.20	20	100	2.7	30	25
CPUN1210N-1R8M-N	1.80	20	100	3.7	15	13
CPUN1210N-2R2M-N	2.20	20	100	3.2	20	18
CPUN1210N-4R7M-N	4.70	20	100	6.5	18	14
CPUN1210N-121M-N	120	20	100	240	2	2.2

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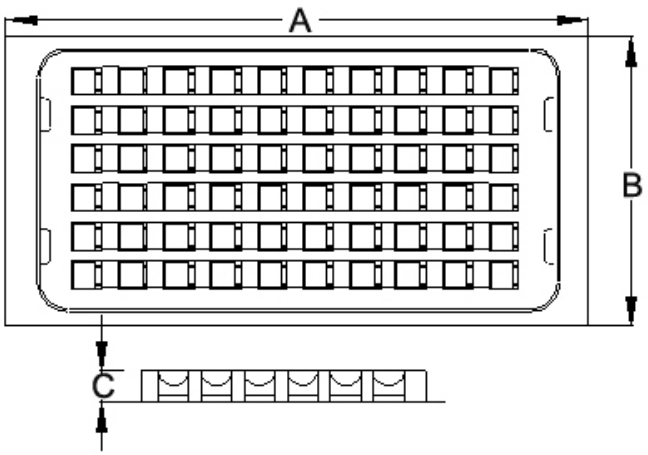
- Customized Specifications are welcome.
- Tested L: WK4237METER

  RDC: HK502BC METER

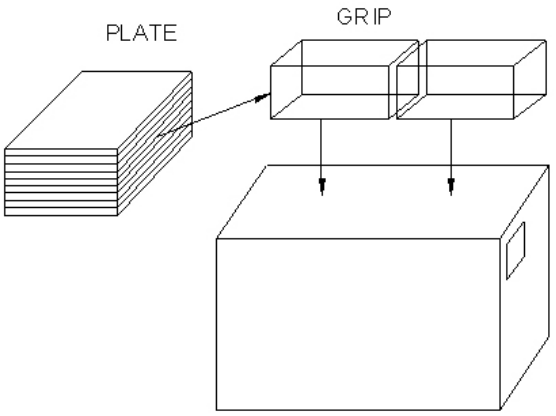
  Isat、Irms : WK3260B/ 3265B METER

Packaging

PLATE DIMENSIONS



PACKAGING QUANTITY



Dimensions in mm

TYPE	PLATE DIMENSIONS			QUANTITY				
	A	B	C	BULK	PLATE	PLATE/GRIP	GRIP	BOX
CPUX0806N	250	220	10	˅	100	10	2	2000
CPUX0808N	250	220	10	˅	100	10	2	2000
CPUX1008N	250	200	10	˅	100	10	2	2000
CPUX1009N	250	200	13.5	˅	100	8	2	1600
CPUX1108N	250	200	13.5	˅	100	8	2	1600
CPUX1208N	250	200	13.5	˅	100	8	2	1600
CPUX1210N	250	200	13.5	˅	100	8	2	1600

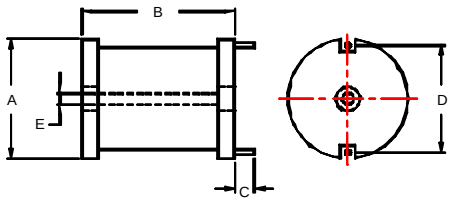
TDH Series

TDH Series is available in 120 standard values covering a wide range of inductance and current. The use of high saturation flux density material makes these coils ideal for use in switching regulated power supply application and wherever high current choke values in a small physical size are needed.

Applications

- Switching Regulators
- Power Amplifiers
- Power Supplies
- SCR and Triac Controls
- Speaker Crossover Networks
- RFI Suppressions
- Filters

Shapes and Dimensions



Dimension in mm

Series	A	B	C	D Typ.	E Typ.
1420T	17^{+0}	22^{+0}	15±2	12	3.0
1920T	22^{+0}	22^{+0}	15±2	15	4.0
2420T	28^{+0}	22^{+0}	15±2	22	4.0

- Note: lead-free
- CHILISIN uses UL tube on TDH Series to avoid the damage when wave soldering..
- Customized specifications are welcome.

Electrical Characteristics

L&% CODE	Inductance (mH)	TDH1420T-L&%-N		TDH1920T-L&%-N		TDH2420T-L&%-N	
		DCR (W) Max	IDC (A) Max	DCR (W) Max	IDC (A) Max	DCR (W) Max	IDC (A) Max
1R0M	1.0	0.003	9.0	0.003	11.4	0.003	21
1R2M	1.2	0.003	9.0	0.003	11.4	0.003	21
1R5M	1.5	0.004	9.0	0.003	11.4	0.003	21
1R8M	1.8	0.004	9.0	0.003	11.4	0.003	21
2R2M	2.2	0.005	9.0	0.004	11.4	0.003	21
2R7M	2.7	0.005	9.0	0.005	11.4	0.003	21
3R3M	3.3	0.005	9.0	0.005	11.4	0.003	21
3R9M	3.9	0.006	9.0	0.005	11.4	0.003	21
4R7M	4.7	0.007	9.0	0.005	11.4	0.003	21
5R6M	5.6	0.007	9.0	0.006	11.4	0.003	21
6R8M	6.8	0.008	9.0	0.007	11.4	0.004	21
8R2M	8.2	0.009	9.0	0.007	11.4	0.004	21
100M	10	0.010	9.0	0.009	11.4	0.006	17
120K	12	0.011	9.0	0.009	11.4	0.008	13.5
150K	15	0.015	7.2	0.013	9.0	0.009	13.5
180K	18	0.016	7.2	0.018	7.2	0.010	13.5
220K	22	0.025	5.5	0.019	7.2	0.011	13.5
270K	27	0.030	4.5	0.026	5.5	0.012	13.5
330K	33	0.040	4.0	0.029	5.5	0.017	13.5
390K	39	0.046	4.0	0.030	5.5	0.022	11.4
470K	47	0.062	2.8	0.035	5.5	0.024	9.0
560K	56	0.069	2.8	0.039	5.5	0.026	9.0
680K	68	0.077	2.8	0.053	4.8	0.029	9.0
820K	82	0.083	2.8	0.060	4.8	0.032	9.0
101K	100	0.095	2.8	0.080	4.0	0.034	9.0
121K	120	0.127	2.0	0.090	4.0	0.046	7.2
151K	150	0.181	1.6	0.098	4.0	0.064	5.5
181K	180	0.217	1.6	0.110	4.0	0.072	5.5
221K	220	0.240	1.6	0.150	2.8	0.080	5.5
271K	270	0.300	1.6	0.213	2.0	0.110	4.5
331K	330	0.336	1.3	0.305	1.6	0.122	4.5
391K	390	0.460	1.0	0.320	1.6	0.169	4.0
471K	470	0.636	0.8	0.355	1.6	0.187	4.0
561K	560	0.696	0.8	0.388	1.6	0.205	4.0
681K	680			0.430	1.6	0.256	2.8
821K	820			0.590	1.3	0.288	2.8
102K	1000			0.818	1.0	0.426	2.0
122K	1200			1.140	0.8	0.462	2.0
152K	1500			1.260	0.8	0.518	2.0
182K	1800			1.390	0.8	0.705	1.6
222K	2200			1.540	0.8	1.020	1.3
272K	2700					1.140	1.3
332K	3300					1.270	1.3
392K	3900					1.670	1.0
472K	4700					1.860	1.0

1. Inductance drop = 10% Max at IDC
2. Inductance @ 1KHz, 1V
3. Tolerance K = ±10% >10μH, M = ±20% = 10μH
3. Non-listed values available on request
4. Coils finished with sleeving UL-VW-1 rated
5. Center hole for mechanical mounting
6. 1000V AC RMS hi pot
7. Spacer available at additional cost to facilitate PC board washing
8. Operating Temperature: -25°C to + 85°C
9. Temperature Rise: 50°C Max at IDC.

CHILISIN ELECTRONICS CORP.

BC Series

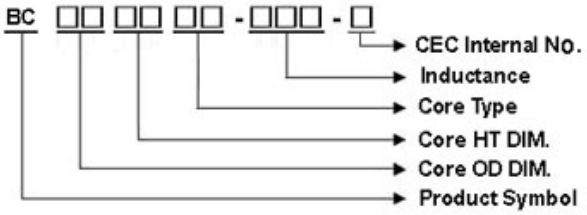
Features

- Compact size, high performance, low cost
- With Large current loads
- Toroidal shape core reduces coils roar to an all-time low

Applications

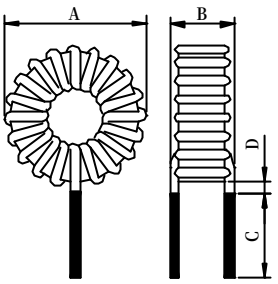
- Compact size, high performance, low cost
- With Large current loads
- Toroidal shape core reduces coils roar to an all-time low

Product Identification



- Note: lead-free
- Customized specifications are also welcome.

Shapes and Dimensions



Electrical Specifications

Part Number	Dimensions (mm)					Turns	Inductance (μH)Typ	RDC (mO) Typ
	A Max	B Max	C Max	D Max	Wire Dia			
BC1005IR-330-N	12.0	7.0	25.0	3.0	0.4ψ	25	33	59
BC1104IR-300-N	13.5	7.5	25.0	3.0	0.4ψ	25	30	62
BC1305IR-330-N	15.5	8.5	25.0	3.0	0.4ψ	28	33	71
BC1306IR-300-N	17.0	9.5	25.0	3.0	0.6ψ	26	30	30
BC1506IR-330-N	19.0	10.0	25.0	3.0	0.6ψ	24	33	40
BC1806IR-390-N	21.0	10.0	25.0	3.0	0.6ψ	25	39	33
BC2006IR-430-N	25.0	11.0	25.0	3.0	0.8ψ	29	43	31
BC2310IR-960-N	27.0	13.5	25.0	3.0	0.8ψ	30	96	42
BC2711IR-121-N	32.0	17.0	25.0	3.0	1.0ψ	30	120	37
BC3311IR-141-N	40.0	17.0	25.0	3.0	1.0ψ	40	140	37

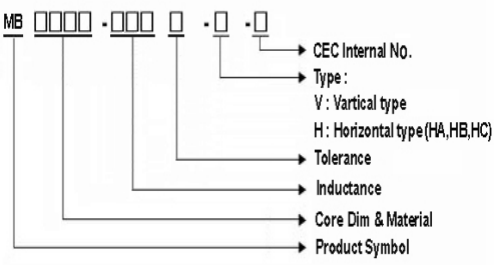
Test instrument:

- L: HP4263B DIGITAL LCR METER
- RDC: CHEN HWA502BC

CHILISIN ELECTRONICS CORP.

MB Series

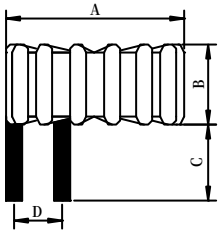
Product Identification



- Note: lead-free
- Customized specifications are also welcome.

Shapes and Dimensions

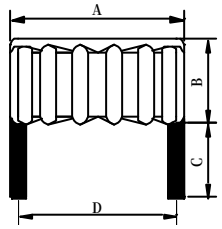
Type: HA



Dimensions in mm

Type: HA	A Max	B Max	C	D
MB5026	15.5	8.0	6±1	5±1
MB5026B	15.5	9.5	6±1	5±1
MB5052	15.5	8.0	6±1	5±1
MB5052B	15.5	9.5	6±1	5±1
MB5018B	15.5	9.5	6±1	5±1
MB5018	15.5	8.0	6±1	5±1
MB6052	20.0	10.0	6±1	6±1
MB6018	20.0	10.0	6±1	6±1

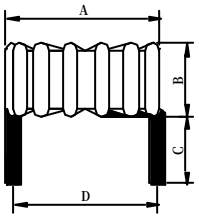
Type: HB



Dimensions in mm

Type: HB	A Max	B Max	C	D
MB5026	18.0	10.0	6±1	15±1
MB5026B	18.0	11.5	6±1	15±1
MB5052	18.0	10.0	6±1	15±1
MB5052B	18.0	11.5	6±1	15±1
MB5018B	18.0	11.5	6±1	15±1
MB5018	18.0	10.0	6±1	15±1
MB6052	22.0max	12.0max	6±1	17±1
MB6018	22.0max	12.0max	6±1	17±1

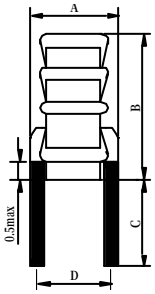
Type: HC



Dimensions in mm

Type: HC	A Max	B Max	C	D
MB5026	15.5	8.0	6±1	14±1
MB5026B	15.5	9.5	6±1	14±1
MB5052	15.5	8.0	6±1	14±1
MB5052B	15.5	9.5	6±1	14±1
MB5018B	15.5	9.5	6±1	14±1
MB5018	15.5	8.0	6±1	14±1
MB6052	20.0	10.0	6±1	16±1
MB6018	20.0	10.0	6±1	16±1

Type: V



Dimensions in mm

Type: V	A Max	B Max	C	D
MB5026	9.0	18.0	6±1	7.0±1
MB5026B	10.0	18.0	6±1	8.5±1
MB5052	9.0	18.0	6±1	7.0±1
MB5052B	10.0	18.0	6±1	8.5±1
MB5018B	10.0	18.0	6±1	8.5±1
MB5018	9.0	18.0	6±1	7.0±1
MB6052	11.0	21.0	6±1	9.5REF
MB6018	11.0	21.0	6±1	9.5REF

CHILISIN ELECTRONICS CORP.

Electrical Parameters

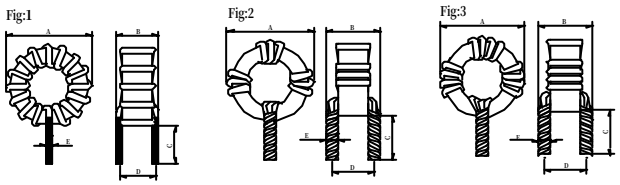
Part Number	Inductance (μH)	DC Resistance (mΩ) Max								Permissible DC current (A) Max /L(μH) Min. when current applied							
		5026	5026B	5052	5052B	5018	5018B	6052	6018	5026	5026B	5052	5052B	5018	5018B	6052	6018
1R0M-N	1.0	6.0	5.0	6.0	5.0	6.0	5.0	4.0	4.0	15/0.8	15/0.8	15/0.8	15/0.8	15/0.8	15/0.8	20/0.8	20/0.8
1R2M-N	1.2	6.0	5.0	6.0	5.0	6.0	5.0	4.0	4.0	15/1.0	15/1.0	15/1.0	15/1.0	15/1.0	15/1.0	20/1.0	20/1.0
1R5M-N	1.5	6.0	6.0	6.0	6.0	6.0	6.0	4.0	4.0	12/1.2	15/1.2	12/1.2	15/1.2	15/1.2	15/1.2	20/1.2	20/1.2
1R8M-N	1.8	7.0	6.0	7.0	6.0	7.0	6.0	4.0	4.0	12/1.5	12/1.5	12/1.5	12/1.5	12/1.5	12/1.5	15/1.5	15/1.5
2R0M-N	2.0	7.0	6.0	7.0	6.0	7.0	6.0	4.0	4.0	11/1.6	12/1.6	11/1.6	12/1.6	12/1.6	12/1.6	15/1.6	15/1.6
2R2M-N	2.2	7.0	7.0	7.0	7.0	7.0	7.0	4.0	4.0	11/1.7	12/1.7	11/1.7	12/1.7	12/1.7	12/1.7	15/1.7	15/1.7
2R5M-N	2.5	8.0	7.0	8.0	7.0	8.0	7.0	5.0	5.0	10/2.0	10/2.0	10/2.0	10/2.0	10/2.0	10/2.0	15/2.0	15/2.0
2R7M-N	2.7	8.0	7.0	8.0	7.0	8.0	7.0	5.0	5.0	10/2.2	10/2.2	10/2.2	10/2.2	10/2.2	10/2.2	12/2.2	12/2.2
3R0M-N	3.0	8.0	7.0	8.0	7.0	8.0	7.0	5.0	5.0	9/2.4	10/2.4	9/2.4	10/2.4	10/2.4	10/2.4	12/2.4	12/2.4
3R3M-N	3.3	8.0	7.0	8.0	7.0	8.0	7.0	5.0	5.0	9/2.7	9/2.7	9/2.7	9/2.7	9/2.7	9/2.7	12/2.7	12/2.7
3R5M-N	3.5	9.0	8.0	9.0	8.0	9.0	8.0	5.0	5.0	8/2.8	9/2.8	8/2.8	9/2.8	9/2.8	9/2.8	12/2.8	12/2.8
3R9M-N	3.9	9.0	8.0	9.0	8.0	9.0	8.0	5.0	5.0	8/3.0	9/3.3	8/3.0	9/3.3	9/3.3	9/3.3	10/3.0	10/3.0
4R0M-N	4.0	9.0	8.0	9.0	8.0	9.0	8.0	5.0	5.0	7/3.2	8/3.2	7/3.2	8/3.2	8/3.2	8/3.2	10/3.2	10/3.2
4R5M-N	4.5	9.0	9.0	9.0	9.0	9.0	9.0	5.0	5.0	7/3.6	8/3.6	7/3.6	8/3.6	8/3.6	8/3.6	10/3.6	10/3.6
4R7M-N	4.7	10.0	9.0	10.0	9.0	10.0	9.0	6.0	6.0	6/3.8	8/3.8	6/3.8	8/3.8	8/3.8	8/3.8	9/3.8	9/3.8
5R0M-N	5.0	10.0	9.0	10.0	9.0	10.0	9.0	6.0	6.0	6/4.0	7/4.0	6/4.0	7/4.0	7/4.0	7/4.0	9/4.0	9/4.0
5R5M-N	5.5	10.0	9.0	10.0	9.0	10.0	9.0	6.0	6.0	5/4.4	7/4.4	5/4.4	7/4.4	7/4.4	7/4.4	8/4.4	8/4.4
6R0M-N	6.0	10.0	9.0	10.0	9.0	10.0	9.0	6.0	6.0	5/4.8	7/4.8	5/4.8	7/4.8	7/4.8	7/4.8	8/4.8	8/4.8
6R5M-N	6.5	11.0	9.0	11.0	9.0	11.0	9.0	6.0	6.0	5/5.0	6/5.2	5/5.0	6/5.2	6/5.2	6/5.2	8/5.2	8/5.2
7R0M-N	7.0	11.0	10.0	11.0	10.0	11.0	10.0	6.0	6.0	4/5.6	6/5.6	4/5.6	6/5.6	6/5.6	6/5.6	7/5.6	7/5.6
7R5M-N	7.5	11.0	10.0	11.0	10.0	11.0	10.0	6.0	6.0	4/6.1	5/6.1	4/6.1	5/6.1	5/6.1	5/6.1	7/6.1	7/6.1
8R0M-N	8.0	12.0	10.0	12.0	10.0	12.0	10.0	7.0	7.0	3/6.4	5/6.4	3/6.4	5/6.4	5/6.4	5/6.4	7/6.4	7/6.4
8R5M-N	8.5	12.0	11.0	12.0	11.0	12.0	11.0	7.0	7.0	3/6.8	4/6.8	3/6.8	4/6.8	4/6.8	4/6.8	6/6.8	6/6.8
9R0M-N	9.0	12.0	11.0	12.0	11.0	12.0	11.0	7.0	7.0	3/7.2	4/7.2	3/7.2	4/7.2	4/7.2	4/7.2	6/7.2	6/7.2
9R5M-N	9.5	12.0	12.0	12.0	12.0	12.0	12.0	7.0	7.0	2/7.6	3/7.6	2/7.6	3/7.6	3/7.6	3/7.6	6/7.6	6/7.6
100M-N	10.0	12.0	12.0	12.0	12.0	12.0	12.0	7.0	7.0	2/8.0	3/8.0	2/8.0	3/8.0	3/8.0	3/8.0	6/8.0	6/8.0

Measuring Frequency of Inductance:

- MB5026 Series: 1KHz
- MB5052/6052 Series: 100KHz
- MB5018/6018 Series: 300KHz

MB Series for Customer Design

Shapes and Dimensions



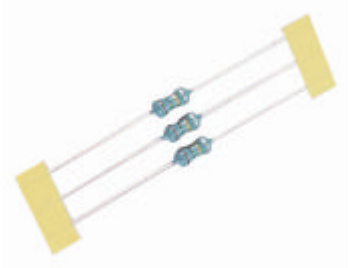
Dimensions in mm

Part Number	A Max	B Max	C	D	E	Fig
MB6018-R90M-N	20.0	10.0	3.8±0.5	9.5±1.0	2.9±0.3	3
MB6018-R60M-N	20.0	10.0	3.8±0.5	9.5±1.0	2.8 Ref	3
MB5052-R60M-N	16.5	8.0	6.0±1.0	7.0±1.0	1.7 Max	2
MB3752-1R0M-N	13.0	8.0	4.5±1.0	5.5±1.0	1.0±0.1	1
MB6052-3R0M-N	20.5	11.0	5.0±0.5	8.0±0.5	1.3±0.1	1
MB6052-1R0M-N	20.0	11.0	5.0±0.5	8.0±0.5	1.3±0.1	1

Electrical Parameters

Part Number	Inductance (μH)	RDC (mΩ) Max	Rated Current (A)
MB6018-R90M-N	0.9	3.0	30
MB6018-R60M-N	0.6	1.0	30
MB5052-R60M-N	0.6	2.8	15
MB3752-1R0M-N	1.0	3.0	15
MB6052-3R0M-N	3.0	4.0	20
MB6052-1R0M-N	1.0	3.0	20

AL Series



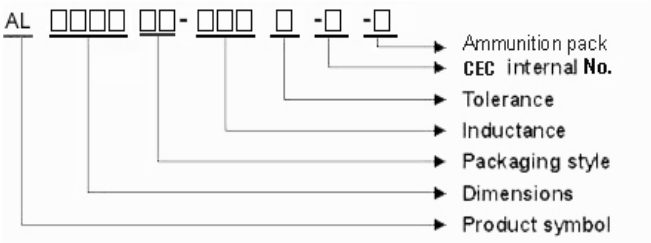
Features

- Design to be compact, small and light-weight
- Wide range of inductance
- Contribute to be high Q and self-resonant frequencies
- Tapping type that is convenient for automatic insertion
- Coating epoxy resin that ensure the humidity resistance to be long life

Applications

For VCRs, color TVs, CRTs, stereo, car radios and radio transceivers, telephone answering, disk drivers, personal computers and industrial, electronics products, etc.

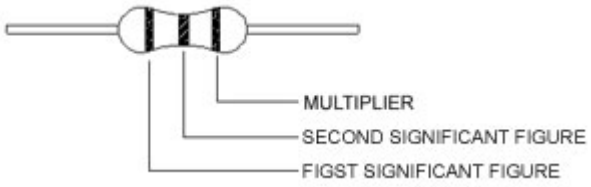
Product Identification



△: (**S:** bulk **ST:** Tapping pack **B:** bended legs **A:** AVI Type)
▽: Ammunition pack (**A:** 26.5, **B:** 52.4)

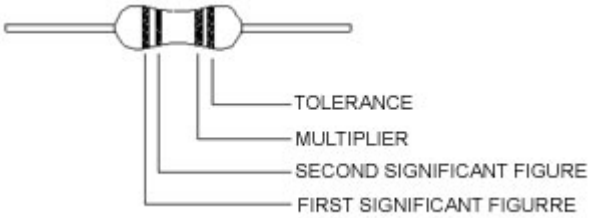
Color Cording

AL0204 Series



- Note: lead-free

AL0307/ 0410/ 0510 Series



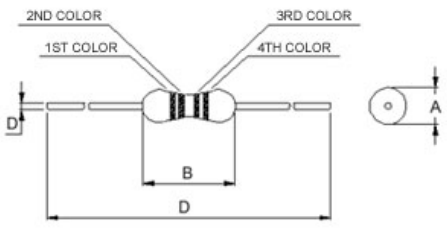
The Nominal Inductance is Marked.
By A Color Code As Listed In Table Belo

Color	Nominal Inductance (㎐)			
	First Figure	Second Figure	Magnification/*	Tolerance
Black	0		1	±20%
Brown	1		10	-
Red	2		100	-
Orange	3		1000	-
Yellow	4		-	-
Green	5		-	-
Blue	6		-	-
Purple	7		-	-
Gray	8		-	-
White	9		-	-
Gold	-		0.1	±5%
Silver	-		0.01	±10%

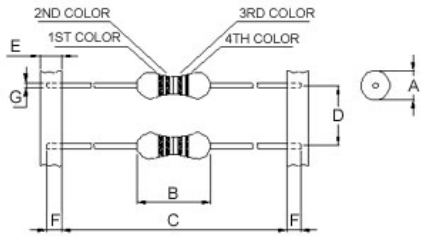
- L.Q: HP4285+HP42851A
- SRF: HP4287ASRF
- RDC: CHEN HWA502BC
- IDC: CHEN HWA CH1061+301A
- Tolerance: J = ±5%,K = ±10%, M = ± 20%

Shapes and Dimensions

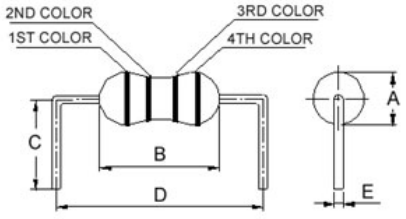
S



ST



B



Dimension in mm

	A	B	C			D			E			F			G		
			S	ST	B	S	ST	B	S	ST	B	S	ST	B	S	ST	B
AL0204	2.8^{+0}	4^{+0}	62±3	52.4±1.5	6±1	0.5Ø	5±0.5	10±1	-	6±1	0.5Ø	-	3.2^{+0}	-	-	0.5Ø	-
AL0307	3^{+0}	7^{+0}	62±3	52.4±1.5	6±1	0.5Ø	5±0.5	10±1	-	6±1	0.5Ø	-	3.2^{+0}	-	-	0.5Ø	-
AL0410	4^{+0}	10.5^{+0}	62±3	52.4±1.5	6±1	0.65Ø	5±0.5	12.5±1	-	6±1	0.65Ø	-	3.2^{+0}	-	-	0.65Ø	-
AL0510	4.5^{+0}	10.5^{+0}	62±3	52.4±1.5	6±1	0.65Ø	5±0.5	12.5±1	-	6±1	0.65Ø	-	3.2^{+0}	-	-	0.65Ø	-

AL0204 Series

Electrical Parameters

Part Number	Inductance (μH)	Test Frequency (MHz)	Standard Specification			
			Q Min	S.R.F (MHz) Min	D.C. Resistance (Ω) Max	IDC (mA)
AL0204 △ R22 □-N-▽	0.22	25.2	35	150	0.40	400
AL0204 △ R27 □-N-▽	0.27	25.2	35	150	0.43	380
AL0204 △ R33 □-N-▽	0.33	25.2	35	150	0.48	370
AL0204 △ R39 □-N-▽	0.39	25.2	35	150	0.51	350
AL0204 △ R47 □-N-▽	0.47	25.2	35	150	0.56	330
AL0204 △ R56 □-N-▽	0.56	25.2	35	150	0.61	320
AL0204 △ R68 □-N-▽	0.68	25.2	35	150	0.67	310
AL0204 △ R82 □-N-▽	0.82	25.2	35	150	0.74	290
AL0204 △ 1R0 □-N-▽	1.00	25.2	35	120	0.80	270
AL0204 △ 1R2 □-N-▽	1.20	7.96	40	110	0.90	260
AL0204 △ 1R5 □-N-▽	1.50	7.96	40	80	1.0	250
AL0204 △ 1R8 □-N-▽	1.80	7.96	40	60	1.1	240
AL0204 △ 2R2 □-N-▽	2.20	7.96	40	45	1.2	230
AL0204 △ 2R7 □-N-▽	2.70	7.96	40	40	1.3	220
AL0204 △ 3R3 □-N-▽	3.30	7.96	40	38	1.4	210
AL0204 △ 3R9 □-N-▽	3.90	7.96	40	35	1.6	200
AL0204 △ 4R7 □-N-▽	4.70	7.96	40	32	1.7	190
AL0204 △ 5R6 □-N-▽	5.60	7.96	40	30	1.9	180
AL0204 △ 6R8 □-N-▽	6.80	7.96	40	28	2.0	175
AL0204 △ 8R2 □-N-▽	8.20	7.96	40	26	2.2	165
AL0204 △ 100 □-N-▽	10	7.96	40	24	2.5	160
AL0204 △ 120 □-N-▽	12	2.52	40	22	2.5	150
AL0204 △ 150 □-N-▽	15	2.52	40	20	2.8	145
AL0204 △ 180 □-N-▽	18	2.52	40	18	3.1	140
AL0204 △ 220 □-N-▽	22	2.52	40	17	3.4	130
AL0204 △ 270 □-N-▽	27	2.52	40	16	4.3	80
AL0204 △ 330 □-N-▽	33	2.52	40	14	4.7	76
AL0204 △ 390 □-N-▽	39	2.52	40	13	5.2	74
AL0204 △ 470 □-N-▽	47	2.52	40	12	5.8	70
AL0204 △ 560 □-N-▽	56	2.52	40	11	6.4	68
AL0204 △ 680 □-N-▽	68	2.52	40	10	7.2	64
AL0204 △ 820 □-N-▽	82	2.52	40	9.5	11	46
AL0204 △ 101 □-N-▽	100	2.52	40	9.0	12	44
AL0204 △ 121 □-N-▽	120	0.796	40	8.0	13	42
AL0204 △ 151 □-N-▽	150	0.796	40	6.0	16	39
AL0204 △ 181 □-N-▽	180	0.796	40	5.5	18	37
AL0204 △ 221 □-N-▽	220	0.796	40	5.0	20	35

- Tolerance: J = ±5%, K = ±10%, M = ± 20%

AL0307 Series

Electrical Parameters

Part Number	Inductance (μH)	Test Frequency (MHz)	Standard Specification			
			Q Min	S.R.F (MHz) Min	D.C. Resistance (Ω) Max	IDC (mA)
AL0307 △ R22 □-N-▽	0.22	25.2	45	150	0.20	400
AL0307 △ R27 □-N-▽	0.27	25.2	45	150	0.22	380
AL0307 △ R33 □-N-▽	0.33	25.2	45	150	0.24	370
AL0307 △ R39 □-N-▽	0.39	25.2	50	150	0.26	350
AL0307 △ R47 □-N-▽	0.47	25.2	45	150	0.28	330
AL0307 △ R56 □-N-▽	0.56	25.2	50	150	0.31	320
AL0307 △ R68 □-N-▽	0.68	25.2	50	150	0.34	310
AL0307 △ R82 □-N-▽	0.82	25.2	55	150	0.37	290
AL0307 △ 1R0 □-N-▽	1.00	25.2	60	150	0.40	270
AL0307 △ 1R2 □-N-▽	1.20	7.96	40	165	0.18	740
AL0307 △ 1R5 □-N-▽	1.50	7.96	45	150	0.20	700
AL0307 △ 1R8 □-N-▽	1.80	7.96	50	125	0.23	655
AL0307 △ 2R2 □-N-▽	2.20	7.96	50	110	0.25	630
AL0307 △ 2R7 □-N-▽	2.70	7.96	50	95	0.28	595
AL0307 △ 3R3 □-N-▽	3.30	7.96	50	70	0.30	575
AL0307 △ 3R9 □-N-▽	3.90	7.96	45	65	0.32	555
AL0307 △ 4R7 □-N-▽	4.70	7.96	45	50	0.35	530
AL0307 △ 5R6 □-N-▽	5.60	7.96	45	40	0.40	500
AL0307 △ 6R8 □-N-▽	6.80	7.96	40	30	0.45	470
AL0307 △ 8R2 □-N-▽	8.20	7.96	40	28	0.55	425
AL0307 △ 100 □-N-▽	10	7.96	40	22	0.72	370
AL0307 △ 120 □-N-▽	12	2.52	45	20	0.80	350
AL0307 △ 150 □-N-▽	15	2.52	50	16	0.88	335
AL0307 △ 180 □-N-▽	18	2.52	50	15	1.00	315
AL0307 △ 220 □-N-▽	22	2.52	50	13	1.20	285
AL0307 △ 270 □-N-▽	27	2.52	50	11	1.35	270
AL0307 △ 330 □-N-▽	33	2.52	50	10	1.50	255
AL0307 △ 390 □-N-▽	39	2.52	50	9.5	1.70	240
AL0307 △ 470 □-N-▽	47	2.52	60	8.5	2.30	205
AL0307 △ 560 □-N-▽	56	2.52	60	7.5	2.60	195
AL0307 △ 680 □-N-▽	68	2.52	60	6.5	2.90	185
AL0307 △ 820 □-N-▽	82	2.52	60	6.0	3.20	175
AL0307 △ 101 □-N-▽	100	2.52	60	5.5	3.50	165
AL0307 △ 121 □-N-▽	120	0.796	60	5.4	3.80	160
AL0307 △ 151 □-N-▽	150	0.796	60	4.75	4.40	150
AL0307 △ 181 □-N-▽	180	0.796	60	4.35	5.00	140
AL0307 △ 221 □-N-▽	220	0.796	60	4.00	5.70	130
AL0307 △ 271 □-N-▽	270	0.796	60	3.70	6.50	120
AL0307 △ 331 □-N-▽	330	0.796	60	3.40	9.50	100
AL0307 △ 391 □-N-▽	390	0.796	60	2.80	10.50	95
AL0307 △ 471 □-N-▽	470	0.796	60	2.55	11.60	90
AL0307 △ 561 □-N-▽	560	0.796	60	2.35	13.00	85
AL0307 △ 681 □-N-▽	680	0.796	60	2.00	18.00	75
AL0307 △ 821 □-N-▽	820	0.796	60	1.50	23.00	65
AL0307 △ 102 □-N-▽	1000	0.796	60	1.20	26.00	60

● Tolerance: J = ±5%, K = ±10%, M = ± 20%

AL0410 Series

Electrical Parameters

Part Number	Inductance (μH)	Test Frequency (MHz)	Standard Specification			
			Q Min	S.R.F (MHz) Min	D.C. Resistance (Ω) Max	IDC (mA)
AL0410 △ R22 □-N-▽	0.22	25.2	25	380	0.21	880
AL0410 △ R27 □-N-▽	0.27	25.2	25	340	0.24	800
AL0410 △ R33 □-N-▽	0.33	25.2	25	300	0.28	750
AL0410 △ R39 □-N-▽	0.39	25.2	25	280	0.32	680
AL0410 △ R47 □-N-▽	0.47	25.2	25	250	0.36	650
AL0410 △ R56 □-N-▽	0.56	25.2	25	230	0.41	600
AL0410 △ R68 □-N-▽	0.68	25.2	25	210	0.47	550
AL0410 △ R82 □-N-▽	0.82	25.2	45	172	0.17	980
AL0410 △ 1R0 □-N-▽	1.00	25.2	45	157	0.19	920
AL0410 △ 1R2 □-N-▽	1.20	7.96	50	144	0.21	880
AL0410 △ 1R5 □-N-▽	1.50	7.96	50	131	0.23	830
AL0410 △ 1R8 □-N-▽	1.80	7.96	55	121	0.25	790
AL0410 △ 2R2 □-N-▽	2.20	7.96	55	110	0.28	750
AL0410 △ 2R7 □-N-▽	2.70	7.96	60	100	0.30	720
AL0410 △ 3R3 □-N-▽	3.30	7.96	65	94	0.34	670
AL0410 △ 3R9 □-N-▽	3.90	7.96	65	86	0.37	640
AL0410 △ 4R7 □-N-▽	4.70	7.96	70	80	0.39	620
AL0410 △ 5R6 □-N-▽	5.60	7.96	70	74	0.43	590
AL0410 △ 6R8 □-N-▽	6.80	7.96	75	68	0.48	550
AL0410 △ 8R2 □-N-▽	8.20	7.96	80	53	0.52	530
AL0410 △ 100 □-N-▽	10	7.96	85	45	0.58	500
AL0410 △ 120 □-N-▽	12	2.52	75	34	0.63	480
AL0410 △ 150 □-N-▽	15	2.52	70	20	0.72	460
AL0410 △ 180 □-N-▽	18	2.52	65	14	0.77	430
AL0410 △ 220 □-N-▽	22	2.52	60	9.9	0.84	410
AL0410 △ 270 □-N-▽	27	2.52	55	7.6	0.94	390
AL0410 △ 330 □-N-▽	33	2.52	55	6.3	1.03	370
AL0410 △ 390 □-N-▽	39	2.52	50	6.3	1.12	350
AL0410 △ 470 □-N-▽	47	2.52	45	6.3	1.22	340
AL0410 △ 560 □-N-▽	56	2.52	40	6.2	1.34	320
AL0410 △ 680 □-N-▽	68	2.52	40	5.7	1.47	305
AL0410 △ 820 □-N-▽	82	2.52	35	5.3	1.62	290
AL0410 △ 101 □-N-▽	100	2.52	30	4.8	1.80	275
AL0410 △ 121 □-N-▽	120	0.796	70	3.8	3.70	185
AL0410 △ 151 □-N-▽	150	0.796	70	3.5	4.20	175
AL0410 △ 181 □-N-▽	180	0.796	70	3.3	4.60	165
AL0410 △ 221 □-N-▽	220	0.796	70	3.0	5.10	155
AL0410 △ 271 □-N-▽	270	0.796	65	2.8	5.80	145
AL0410 △ 331 □-N-▽	330	0.796	65	2.6	6.40	137
AL0410 △ 391 □-N-▽	390	0.796	65	2.4	7.00	133

● Tolerance: K = ±10%, M = ± 20%

AL0510 Series

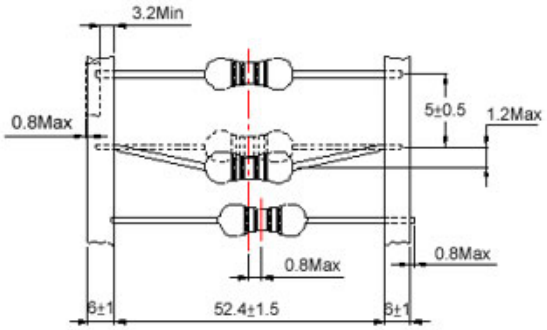
Electrical Parameters

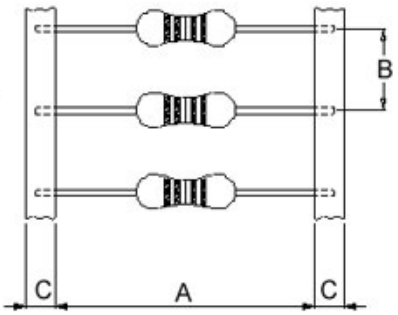
Part Number	Inductance (μH)	Test Frequency (MHz)	Standard Specification			
			Q Min	S.R.F (MHz) Min	D.C. Resistance (Ω) Max	IDC (mA)
AL0510 △ 471 □-N-▽	470	0.796	60	2.25	7.70	126
AL0510 △ 561 □-N-▽	560	0.796	60	2.10	8.50	120
AL0510 △ 681 □-N-▽	680	0.796	55	1.95	9.40	113
AL0510 △ 821 □-N-▽	820	0.796	55	1.85	10.5	100
AL0510 △ 102 □-N-▽	1000	0.796	50	1.70	12.0	100

Tolerance: K = ±10%, M = ± 20%

Packaging Specifications

Specification of Tape



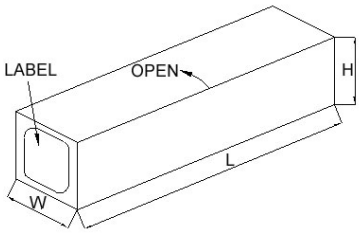


Dimension in mm

A	B	C
52.4±1.5	5±0.5	6±1.0

Specification of Ammunition Pack

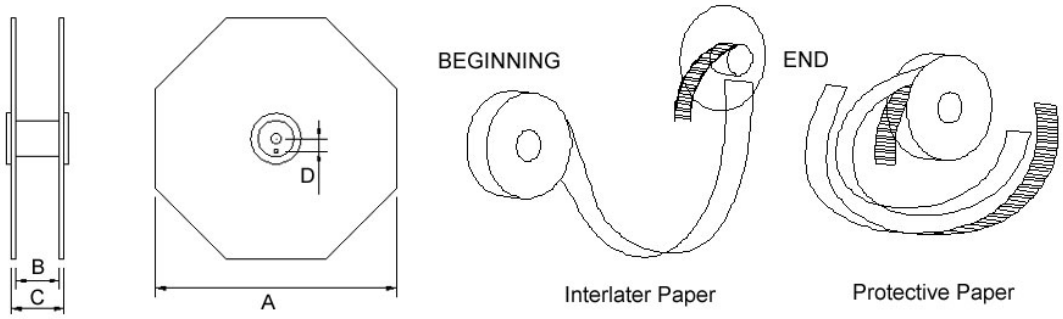
For inner tape: 52.4±1.5mm width



Dimension in mm

TYPE	A	B	C
AL0204	75	60	255
AL0307	75	60	255
AL0410	75	95	255
AL0510	75	85	255

Specification of Reel



Dimension in mm

A	B	C	D
285	66	72	15

Reel Packing

Part Number	Quantity Per Reel	Quantity Carton
AL 0204ST-Series-N	4000 PCS	20000 PCS
AL 0307ST -Series-N	4000 PCS	20000 PCS
AL 0410ST-Series-N	3000 PCS	15000 PCS
AL 0510ST-Series-N	2500 PCS	12500 PCS

Ammunition Packing

Part Number	Quantity Per Ammu	Quantity Carton
AL 0204ST-Series-N-B	3000 PCS	75000 PCS
AL 0307ST-Series-N-B	2000 PCS	50000 PCS
AL 0410ST-Series-N-B	2000 PCS	30000 PCS
AL 0510ST-Series-N-B	1000 PCS	20000 PCS

In Bulks

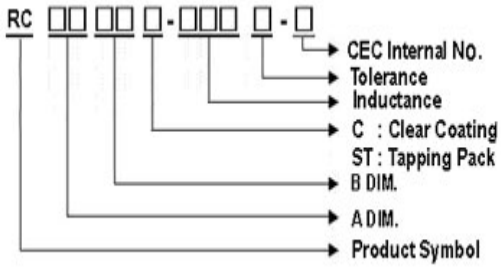
Part Number	Quantity Per Bag
AL 0204S-Series-N	500 PCS
AL 0307S-Series-N	500 PCS
AL 0410S-Series-N	500 PCS
AL 0510S-Series-N	500 PCS

RC Series

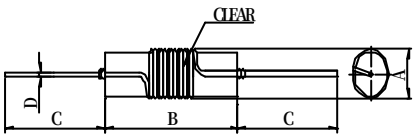
Features

- Low cost
- Wide range of inductance
- High reliability

Product Identification



Shapes and Dimensions



Dimension in mm

	RC0508	RC0510	RC0512
A	5^{+0}		
B	8±0.5	10±0.5	12±0.5
C	25^{-0}		
D	0.65∅		

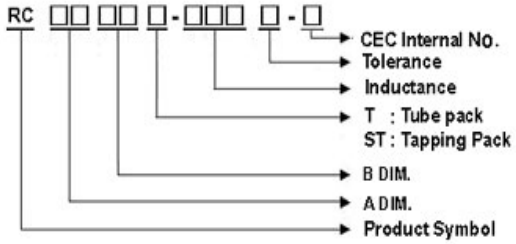
- Note: lead-free
- CHILISIN uses UL tube on RC Series to avoid the damage when wave soldering.

Electrical Parameters

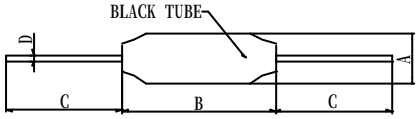
Part Number RC0508 Series	Inductance (mH)	Test Frequency (MHz)	Q Min	S.R.F (MHz) Min	D.C Resistance (W) Max	IDC (mA)
RC0508□-1R0K-N	1.0	7.96	30	155	0.186	1730
RC0508□-1R2K-N	1.2	7.96	30	145	0.15	1670
RC0508□-1R5K-N	1.5	7.96	30	130	0.16	1130
RC0508□-1R8K-N	1.8	7.96	30	115	0.17	1070
RC0508□-2R2K-N	2.2	7.96	30	105	0.19	1030
RC0508□-2R7K-N	2.7	7.96	30	95	0.21	960
RC0508□-3R3K-N	3.3	7.96	30	85	0.23	900
RC0508□-3R9K-N	3.9	7.96	30	80	0.25	860
RC0508□-4R7K-N	4.7	7.96	30	70	0.50	550
RC0508□-5R6K-N	5.6	7.96	30	65	0.55	530
RC0508□-6R8K-N	6.8	7.96	30	60	0.61	550
RC0508□-8R2K-N	8.2	7.96	30	55	0.88	480
RC0508□-100K-N	10	2.52	30	50	0.75	460
RC0508□-120K-N	12	2.52	30	48	0.82	460
RC0510 Series						
RC0510□-150K-N	15	2.52	30	45	0.83	430
RC0510□-180K-N	18	2.52	30	41	0.94	410
RC0510□-220K-N	22	2.52	30	35	1.20	390
RC0510□-270K-N	27	2.52	30	30	1.20	370
RC0510□-330K-N	33	2.52	30	32	1.30	370
RC0510□-390K-N	39	2.52	30	30	1.45	355
RC0512 Series						
RC0512□-470K-N	47	2.52	30	27	1.64	355
RC0512□-560K-N	56	2.52	30	24	1.75	320
RC0512□-680K-N	68	2.52	30	22	2.50	310
RC0512□-820K-N	82	2.52	30	20	3.50	290

- L.Q: HP4285+HP42851A
- SRF: HP4287A
- RDC: CHEN HWA502BC
- IDC: CHEN HWA CH1061+301A

Product Identification

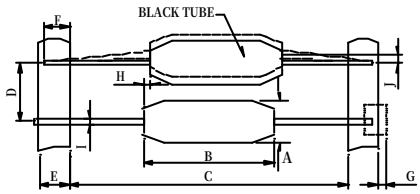


Shapes and Dimensions



Dimensions in mm

	RC0513ST	RC0519ST	RC0621ST	RC0628ST
A	5^{+0}		6^{+0}	
B	13^{+0}	19^{+0}	21^{+0}	28^{+0}
C	30^{-0}			
D	0.65∅		0.8∅	



Dimensions in mm

	RC0513ST	RC0519ST	RC0621ST	RC0628ST
A	5^{+0}		6^{+0}	
B	13^{+0}	19^{+0}	18~21	23~27
C	52.4±1.5	73±1.5		76~80
D	5±0.5	10±0.5		10±0.5
E	6±1			
F	3.2^{-0}		4.8^{-0}	
G	0.8^{+0}			
H	2.5^{+0}			
I	0.65∅		0.8∅	
J	1.5^{+0}			

- L: HP4285+42851A
- IDC: CHEN HWA CH1061H301A

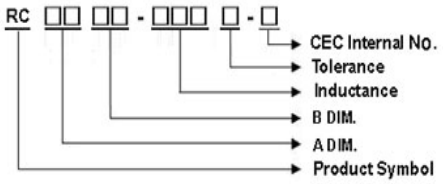
Electrical Parameters

Part Number RC0513 Series	Inductance (㎳H)	Test Frequency (MHz)	IDC (A)
RC0513□-5R6M-N	5.6	7.96	0.80
RC0513□-6R8M-N	6.8	7.96	0.80
RC0513□-7R5M-N	7.5	7.96	0.45
RC0513□-8R2M-N	8.2	7.96	0.43
RC0513□-100M-N	10	2.52	0.40
RC0513□-120M-N	12	2.52	0.38
RC0513□-150M-N	15	2.52	0.36
RC0513□-180M-N	18	2.52	0.36
RC0513□-220M-N	22	2.52	0.33
RC0513□-270M-N	27	2.52	0.31
RC0519 Series			
RC0519□-5R6M-N	5.6	7.96	1.3
RC0519□-6R8M-N	6.8	7.96	1.3
RC0519□-7R5M-N	7.5	7.96	1.3
RC0519□-8R2 M-N	8.2	7.96	1.3
RC0519□-100M-N	10	2.52	1.3
RC0519□-120M-N	12	2.52	1.3
RC0519□-150M-N	15	2.52	1.0
RC0519□-180M-N	18	2.52	1.0
RC0519□-220M-N	22	2.52	0.9
RC0519□-270M-N	27	2.52	0.5
RC0519□-330M-N	33	2.52	0.5
RC0519□-390M-N	39	2.52	0.3
RC0519□-470M-N	47	2.52	0.3
RC0621 Series			
RC0621□-3R3M-N	3.3	7.96	3.0
RC0621□-5R6M-N	5.6	7.96	3.0
RC0621□-6R8M-N	6.8	7.96	3.0
RC0621□-7R5M-N	7.5	7.96	3.0
RC0621□-8R2M-N	8.2	7.96	3.0
RC0621□-100M-N	10	2.52	3.0
RC0621□-120M-N	12	2.52	2.0
RC0621□-150M-N	15	2.52	2.0
RC0621□-180M-N	18	2.52	1.6
RC0621□-220M-N	22	2.52	1.6
RC0621□-270M-N	27	2.52	0.8
RC0621□-330M-N	33	2.52	0.8
RC0621□-390M-N	39	2.52	0.8
RC0621□-470M-N	47	2.52	0.7
RC0628 Series			
RC0628□-5R6M-N	5.6	7.96	5.0
RC0628□-6R8M-N	6.8	7.96	5.0
RC0628□-7R5M-N	7.5	7.96	5.0
RC0628□-8R2M-N	8.2	7.96	5.0
RC0628□-100M-N	10	2.52	4.0
RC0628□-120M-N	12	2.52	4.0
RC0628□-150M-N	15	2.52	4.0
RC0628□-180M-N	18	2.52	3.0
RC0628□-220M-N	22	2.52	3.0
RC0628□-270M-N	27	2.52	2.0
RC0628□-330M-N	33	2.52	2.0
RC0628□-390M-N	39	2.52	1.2
RC0628□-470M-N	47	2.52	1.2

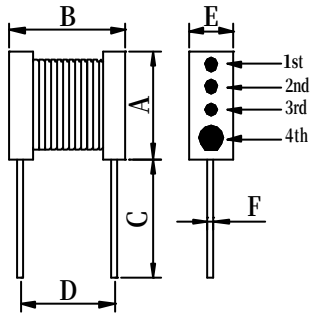
- Note: lead-free
- CHILISIN uses UL tube on RC series to avoid damage when wave soldering..

CHILISIN ELECTRONICS CORP.

Product Identification



Shapes and Dimensions



Dimensions in mm

A	8.89^{+0}
B	10.16^{+0}
C	28±2
D	7.62±0.254
E	4.6^{+0}
F	0.50¢

Test Instruments

- L: HP4285+HP42851A
- RDC: CHEN HWA502BC
- IDC: CHENHWA CH1061+301A

Style	Radial Lead
Temperature rise	20°C
Ambient temperature	80°C
Temperature range	-20°C to 100°C
Terminal tensile strength	2.5Kg min.
Terminal bending strength	0.5Kg.

- Note: lead-free

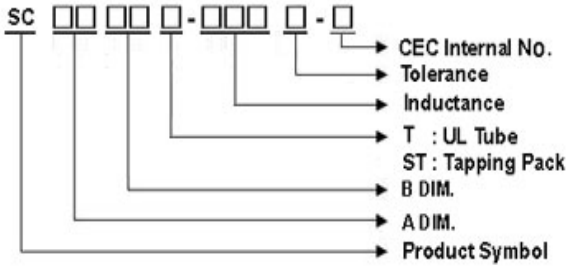
Electrical Parameters

Part Number	Inductance (mH)	Test Frequency (MHz)	Q Min	D.C Resistance (W) Max	IDC (A)
RC0910-1R0K-N	1.0	7.96	90	0.015	7.00
RC0910-1R2K-N	1.2	7.96	39	0.012	6.00
RC0910-1R5K-N	1.5	7.96	33	0.014	5.00
RC0910-1R8K-N	1.8	7.96	37	0.020	4.80
RC0910-2R2K-N	2.2	7.96	38	0.025	4.40
RC0910-2R5K-N	2.5	7.96	85	0.030	4.10
RC0910-2R7K-N	2.7	7.96	43	0.028	4.00
RC0910-3R3K-N	3.3	7.96	35	0.036	3.70
RC0910-3R9K-N	3.9	7.96	37	0.050	3.40
RC0910-4R7K-N	4.7	7.96	37	0.053	3.20
RC0910-5R0K-N	5.0	7.96	90	0.080	2.90
RC0910-5R6K-N	5.6	7.96	35	0.092	2.80
RC0910-6R8K-N	6.8	7.96	29	0.113	2.60
RC0910-7R5K-N	7.5	7.96	95	0.110	2.50
RC0910-8R2K-N	8.2	7.96	32	0.116	2.20
RC0910-100K-N	10	7.96	90	0.190	2.10
RC0910-120K-N	12	2.52	55	0.140	2.00
RC0910-150K-N	15	2.52	51	0.158	1.60
RC0910-180K-N	18	2.52	46	0.180	1.50
RC0910-220K-N	22	2.52	51	0.230	1.40
RC0910-250K-N	25	2.52	80	0.500	1.30
RC0910-270K-N	27	2.52	52	0.265	1.30
RC0910-330K-N	33	2.52	47	0.346	1.20
RC0910-390K-N	39	2.52	46	0.371	1.10
RC0910-470K-N	47	2.52	49	0.502	1.03
RC0910-500K-N	50	2.52	70	1.100	1.00
RC0910-560K-N	56	2.52	45	0.687	0.95
RC0910-680K-N	68	2.52	46	0.888	0.90
RC0910-750K-N	75	2.52	45	1.200	0.86
RC0910-820K-N	82	2.52	53	1.198	0.85
RC0910-101K-N	100	0.796	85	1.500	0.70
RC0910-121K-N	120	0.796	77	1.725	0.65
RC0910-151K-N	150	0.796	79	1.855	0.60
RC0910-181K-N	180	0.796	76	2.070	0.58
RC0910-221K-N	220	0.796	63	2.185	0.49
RC0910-251K-N	250	0.796	55	2.700	0.49
RC0910-271K-N	270	0.796	70	2.530	0.45
RC0910-331K-N	330	0.796	54	3.335	0.41
RC0910-391K-N	390	0.796	60	3.450	0.39
RC0910-471K-N	470	0.796	76	5.290	0.35
RC0910-501K-N	500	0.796	35	3.300	0.34
RC0910-561K-N	560	0.796	68	5.405	0.32
RC0910-681K-N	680	0.796	64	5.930	0.29
RC0910-751K-N	750	0.796	30	4.200	0.28
RC0910-821K-N	820	0.796	60	6.325	0.27
RC0910-102K-N	1000	0.252	70	8.600	0.21
RC0910-122K-N	1200	0.252	70	10.005	0.21
RC0910-152K-N	1500	0.252	72	14.260	0.19
RC0910-182K-N	1800	0.252	72	15.765	0.17
RC0910-222K-N	2200	0.252	72	17.595	0.15
RC0910-252K-N	2500	0.252	75	18.000	0.14
RC0910-272K-N	2700	0.252	72	19.320	0.14
RC0910-332K-N	3300	0.252	70	21.735	0.13
RC0910-392K-N	3900	0.252	70	26.000	0.12
RC0910-472K-N	4700	0.252	63	29.900	0.11
RC0910-502K-N	5000	0.252	45	31.000	0.10
RC0910-752K-N	7500	0.252	25	50.000	0.08
RC0910-103K-N	10000	0.0796	25	70.000	0.07

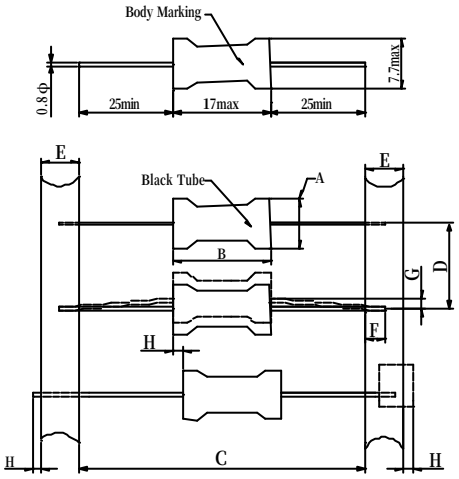
CHILISIN ELECTRONICS CORP.

SC Series

Product Identification



Shapes and Dimensions



Dimensions in mm

A	8.5^{+0}	**F**	3.2^{-0}
B	17^{+0}	**G**	1.2^{+0}
C	73±1.5	**H**	0.8^{+0}
D	10±0.5		
E	6±1		

Test Instrument

- L: HP 4192A LF IMPEDANCE ANALYZER
- D.C. CURRENT: CHEN HWA CH1061+301A
- D.C. RESISTANCE: CHEN HWA502BC

Note:
- lead-free
- CHILISIN has UL tube on SC Series to avoid the damage when wave soldering.

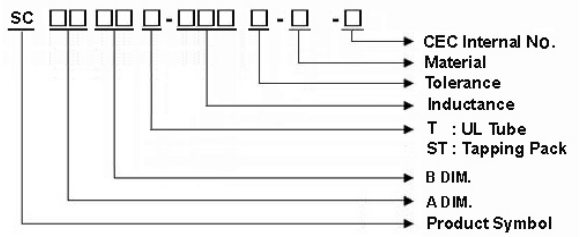
Electrical Parameters

Part Number	Inductance @ 1KHz, 1V	D.C. Resistance (Ω) Max	D.C Current (mA) Min
SC0717□-3R9□-N	3.9	0.019	3600
SC0717□-4R7□-N	4.7	0.022	2800
SC0717□-5R6□-N	5.6	0.024	2600
SC0717□-6R8□-N	6.8	0.026	2200
SC0717□-8R2□-N	8.2	0.028	2100
SC0717□-100□-N	10	0.033	1700
SC0717□-120□-N	12	0.037	1700
SC0717□-150□-N	15	0.040	1400
SC0717□-180□-N	18	0.044	1300
SC0717□-220□-N	22	0.050	1200
SC0717□-270□-N	27	0.058	1100
SC0717□-330□-N	33	0.075	950
SC0717□-390□-N	39	0.094	900
SC0717□-470□-N	47	0.109	830
SC0717□-560□-N	56	0.140	750
SC0717□-680□-N	68	0.131	700
SC0717□-820□-N	82	0.152	600
SC0717□-101□-N	100	0.208	550
SC0717□-121□-N	120	0.283	500
SC0717□-151□-N	150	0.34	450
SC0717□-181□-N	180	0.362	450
SC0717□-221□-N	220	0.43	350
SC0717□-271□-N	270	0.557	300
SC0717□-331□-N	330	0.665	300
SC0717□-391□-N	390	0.772	250
SC0717□-471□-N	470	1.15	250
SC0717□-561□-N	560	1.27	250
SC0717□-681□-N	680	1.61	200
SC0717□-821□-N	820	1.96	200
SC0717□-102□-N	1000	2.30	180
SC0717□-122□-N	1200	2.65	170
SC0717□-152□-N	1500	3.40	140
SC0717□-182□-N	1800	4.03	130
SC0717□-222□-N	2200	4.38	120
SC0717□-272□-N	2700	5.40	100
SC0717□-332□-N	3300	6.56	95
SC0717□-392□-N	3900	8.63	90
SC0717□-472□-N	4700	9.66	80
SC0717□-562□-N	5600	13.9	70
SC0717□-682□-N	6800	16.3	60
SC0717□-822□-N	8200	20.8	60
SC0717□-103□-N	10000	26.4	55
SC0717□-123□-N	12000	29.9	45
SC0717□-153□-N	15000	42.5	45
SC0717□-183□-N	18000	48.3	40

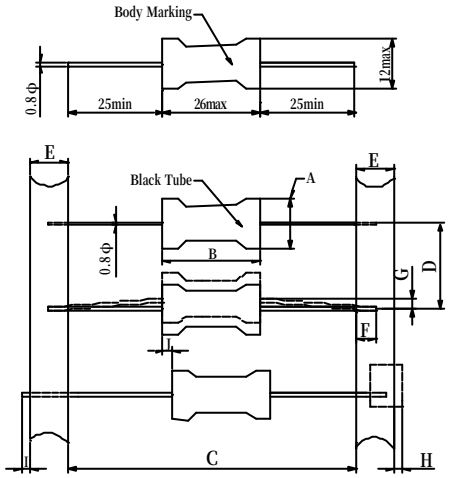
Features

- Low cost
- Wide range of inductance
- High reliability

Product Identification



Shapes and Dimensions



Dimension in mm

A	12.5^{+0}	**F**	3.2^{-0}
B	26^{+0}	**G**	1.2^{+0}
C	73±1.5	**H**	0.8^{+0}
D	15±0.5	**I**	0.8^{+0}
E	6±1	**J**	0.8^{+0}

Test Instrument

- L: HP 4192A LF IMPEDANCE ANALYZER
- D.C. CURRENT: CHEN HWA CH1061+301A
- D.C. RESISTANCE: CHEN HWA502BC

Note:

- lead-free identification.
- CHILISIN uses UL tube on SC Series to avoid the damage when wave soldering.

Electrical Parameters

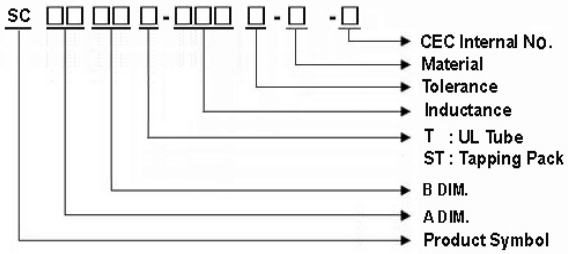
Part Number	Inductance @ 1KHz, 1V	D.C. Resistance (Ω) Max	D.C Current (mA) Min
SC1126□-100□-N	10±15%	0.023	4200
SC1126□-120□-N	12±15%	0.025	3600
SC1126□-150□-N	15±15%	0.030	3400
SC1126□-180□-N	18±15%	0.032	3100
SC1126□-220□-N	22±15%	0.035	2700
SC1126□-270□-N	27±15%	0.038	2400
SC1126□-330□-N	33±15%	0.043	2200
SC1126□-390□-N	39±15%	0.047	1800
SC1126□-470□-N	47±15%	0.054	1800
SC1126□-560□-N	56±15%	0.060	1500
SC1126□-680□-N	68±15%	0.068	1500
SC1126□-820□-N	82±15%	0.073	1300
SC1126□-101□-N	100±15%	0.098	1200
SC1126□-121□-N	120±15%	0.140	1100
SC1126□-151□-N	150±15%	0.180	1000
SC1126□-181□-N	180±15%	0.200	940
SC1126□-221□-N	220±15%	0.280	800
SC1126□-271□-N	270±15%	0.31	800
SC1126□-331□-N	330±15%	0.35	600
SC1126□-391□-N	390±15%	0.38	600
SC1126□-471□-N	470±15%	0.44	500
SC1126□-561□-N	560±15%	0.48	500
SC1126□-681□-N	680±15%	0.63	450
SC1126□-821□-N	820±15%	0.87	450
SC1126□-102□-N	1000±15%	0.96	400
SC1126□-122□-N	1200±15%	1.3	390
SC1126□-152□-N	1500±15%	1.4	300
SC1126□-182□-N	1800±15%	1.7	300
SC1126□-222□-N	2200±15%	2.3	260
SC1126□-272□-N	2700±15%	2.6	250
SC1126□-332□-N	3300±15%	3.5	200
SC1126□-392□-N	3900±15%	3.8	200
SC1126□-472□-N	4700±15%	4.3	180
SC1126□-562□-N	5600±15%	5.6	170
SC1126□-682□-N	6800±15%	6.3	140
SC1126□-822□-N	8200±15%	8.6	140
SC1126□-103□-N	10000±15%	9.7	120
SC1126□-123□-N	12000±15%	11	110
SC1126□-153□-N	15000±15%	15	100
SC1126□-183□-N	18000±15%	20	95
SC1126□-223□-N	22000±15%	24	85
SC1126□-273□-N	27000±15%	26	80
SC1126□-333□-N	33000±15%	35	70
SC1126□-393□-N	39000±15%	38	65
SC1126□-473□-N	47000±15%	50	60
SC1126□-563□-N	56000±15%	55	55
SC1126□-683□-N	68000±15%	76	50
SC1126□-823□-N	82000±15%	86	45
SC1126□-104□-N	100000±15%	99	40
SC1126□-124□-N	120000±15%	110	40
SC1126□-154□-N	150000±15%	200	35
SC1126□-184□-N	180000±15%	220	30
SC1126□-224□-N	220000±15%	300	25
SC1126□-274□-N	270000±15%	320	25
SC1126□-334□-N	330000±15%	420	25
SC1126□-394□-N	390000±15%	480	20
SC1126□-474□-N	470000±15%	670	20
SC1126□-564□-N	560000±15%	730	20
SC1126□-684□-N	680000±15%	870	15
SC1126□-824□-N	820000±15%	950	15
SC1126□-105□-N	1000000±15%	1100	15

CHILISIN ELECTRONICS CORP.

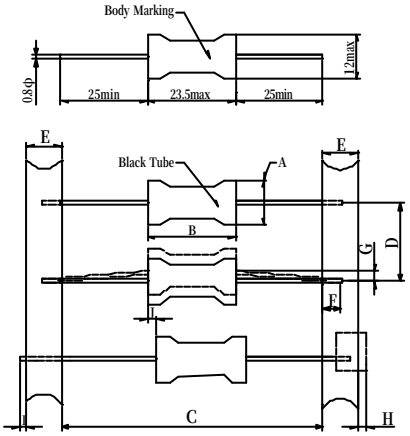
Features

- Low cost
- Wide range of inductance
- High reliability

Product Identification



Shapes and Dimensions



Dimension in mm

A	12^{+0}	**F**	3.2^{-0}
B	23.5^{+0}	**G**	1.2^{+0}
C	73±1.5	**H**	0.8^{+0}
D	15±0.5	**I**	0.8^{+0}
E	6±1	**J**	0.8^{+0}

Test Instrument

- L: HP 4192A LF IMPEDANCE ANALYZER
- D.C. CURRENT: CHEN HWA CH1061+301A
- D.C. RESISTANCE: CHEN HWA502BC

Note:

- lead-free
- CHILISIN has UL tube on SC Series. to avoid the damage when wave soldering.

Electrical Parameters

Part Number	Inductance @ 1KHz, 1V	D.C. Resistance (Ω) Max	D.C Current (mA) Min
SC1223□-3R9□-N	3.9±15%	0.007	4500
SC1223□-4R7□-N	4.7±15%	0.008	4000
SC1223□-5R6□-N	5.6±15%	0.009	3500
SC1223□-6R8□-N	6.8±15%	0.011	3300
SC1223□-8R2□-N	8.2±15%	0.013	2900
SC1223□-100□-N	10±15%	0.017	2700
SC1223□-120□-N	12±15%	0.019	2400
SC1223□-150□-N	15±15%	0.022	2100
SC1223□-180□-N	18±15%	0.023	1900
SC1223□-220□-N	22±15%	0.026	1700
SC1223□-270□-N	27±15%	0.027	1500
SC1223□-330□-N	33±15%	0.032	1400
SC1223□-390□-N	39±15%	0.033	1300
SC1223□-470□-N	47±15%	0.035	1200
SC1223□-560□-N	56±15%	0.037	1100
SC1223□-680□-N	68±15%	0.047	1400
SC1223□-820□-N	82±15%	0.060	1300
SC1223□-101□-N	100±15%	0.080	1200
SC1223□-121□-N	120±15%	0.090	1100
SC1223□-151□-N	150±15%	0.120	940
SC1223□-181□-N	180±15%	0.140	900
SC1223□-221□-N	220±15%	0.160	800
SC1223□-271□-N	270±15%	0.180	770
SC1223□-331□-N	330±15%	0.212	620
SC1223□-391□-N	390±15%	0.260	600
SC1223□-471□-N	470±15%	0.281	510
SC1223□-561□-N	560±15%	0.380	480
SC1223□-681□-N	680±15%	0.500	470
SC1223□-821□-N	820±15%	0.548	430
SC1223□-102□-N	1000±15%	0.655	380
SC1223□-122□-N	1200±15%	0.884	350
SC1223□-152□-N	1500±15%	1.040	310
SC1223□-182□-N	1800±15%	1.180	290
SC1223□-222□-N	2200±15%	1.568	250
SC1223□-272□-N	2700±15%	2.06	220
SC1223□-332□-N	3300±15%	2.53	210
SC1223□-392□-N	3900±15%	2.75	200
SC1223□-472□-N	4700±15%	3.19	170
SC1223□-562□-N	5600±15%	3.92	150
SC1223□-682□-N	6800±15%	6.69	140
SC1223□-822□-N	8200±15%	6.32	130
SC1223□-103□-N	10000±15%	7.30	110
SC1223□-123□-N	12000±15%	9.21	100
SC1223□-153□-N	15000±15%	10.5	95
SC1223□-183□-N	18000±15%	14.8	90
SC1223□-223□-N	22000±15%	21.8	80
SC1223□-273□-N	27000±15%	22.7	70
SC1223□-333□-N	33000±15%	25.7	60
SC1223□-393□-N	39000±15%	33.0	60
SC1223□-473□-N	47000±15%	36.1	60
SC1223□-563□-N	56000±15%	40.9	55
SC1223□-683□-N	68000±15%	57.3	45
SC1223□-823□-N	82000±15%	79.3	40
SC1223□-104□-N	100000±15%	89.7	40

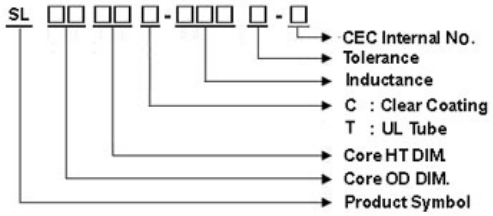
CHILISIN ELECTRONICS CORP.

SL Series

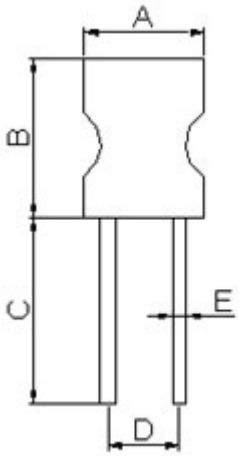
Features

- Low cost
- Wide range of inductance
- High reliability

Product Identification



Shapes and Dimensions



Dimension in mm

A	6^{+0}
B	9^{+0}
C	15^{-0}
D	2±1.0
E	0.5¢

Note:

- lead-free
- CHILISIN uses UL tube on SL series to avoid damage when wave soldering.
- Customized specifications are also welcome.

Electrical Parameters

Part Number	Inductance (㎜H)	Test Frequency (MHz)	Q Min	D.C Resistance (Ω) Max	IDC (mA)
SL0406-1R0K-N	1.0	7.96	50	0.15	300
SL0406-1R2K-N	1.2	7.96	50	0.15	300
SL0406-1R5K-N	1.5	7.96	55	0.20	300
SL0406-1R8K-N	1.8	7.96	70	0.20	300
SL0406-2R2K-N	2.2	7.96	75	0.25	300
SL0406-2R7K-N	2.7	7.96	80	0.25	300
SL0406-3R3K-N	3.3	7.96	80	0.25	300
SL0406-3R9K-N	3.9	7.96	80	0.30	300
SL0406-4R7K-N	4.7	7.96	75	0.30	300
SL0406-5R6K-N	5.6	7.96	75	0.35	300
SL0406-6R8K-N	6.8	7.96	70	0.35	300
SL0406-8R2K-N	8.2	7.96	70	0.35	300
SL0406-100K-N	10	2.52	80	0.60	300
SL0406-120K-N	12	2.52	80	0.65	200
SL0406-150K-N	15	2.52	80	0.75	200
SL0406-180K-N	18	2.52	75	0.85	200
SL0406-220K-N	22	2.52	75	1.00	200
SL0406-270K-N	27	2.52	75	1.20	200
SL0406-330K-N	33	2.52	75	1.30	200
SL0406-390K-N	39	2.52	70	1.50	200
SL0406-470K-N	47	2.52	70	1.60	200
SL0406-560K-N	56	2.52	65	1.65	200
SL0406-680K-N	68	2.52	60	1.80	200
SL0406-820K-N	82	2.52	55	1.85	200
SL0406-101K-N	100	0.796	80	2.00	200
SL0406-121K-N	120	0.796	80	2.50	100
SL0406-151K-N	150	0.796	80	3.00	100
SL0406-181K-N	180	0.796	75	3.50	100
SL0406-221K-N	220	0.796	75	4.00	100
SL0406-271K-N	270	0.796	70	5.00	100
SL0406-331K-N	330	0.796	70	6.00	50
SL0406-391K-N	390	0.796	70	6.50	50
SL0406-471K-N	470	0.796	70	7.50	50
SL0406-561K-N	560	0.796	70	8.00	50
SL0406-681K-N	680	0.796	70	8.50	50
SL0406-821K-N	820	0.796	70	9.50	50

- L & Q: HP4285+HP42851A
- RDC: CHEN HWA502BC
- SRF: HP4287A
- IDC: CHEN HWA CH1061+301A

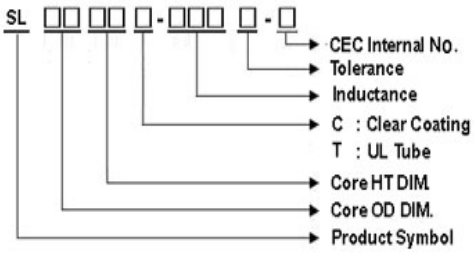
CHILISIN ELECTRONICS CORP.

Leaded RF Chokes – SL Series

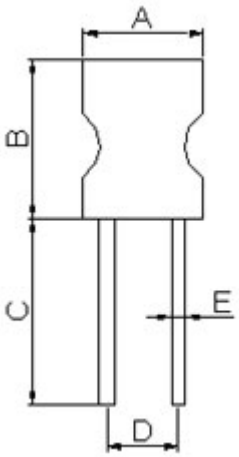
Features

- Low cost
- Wide range of inductance
- High reliability

Product Identification



Shapes and Dimensions



Dimension in mm

A	8^{+0}
B	12^{+0}
C	15^{-0}
D	3.5±1.5
E	0.65¢

Electrical Parameters

Part Number	Inductance (mH)	Test Frequency (KHz)	Q Min	D.C Resistance (W) Max	IDC (mA)
SL0608□-102K-N	1.0	252	80	4.0	110
SL0608□-122K-N	1.2	252	80	4.7	95
SL0608□-152K-N	1.5	252	80	5.9	90
SL0608□-182K-N	1.8	252	80	6.0	80
SL0608□-222K-N	2.2	252	80	7.3	70
SL0608□-272K-N	2.7	252	80	9	65
SL0608□-332K-N	3.3	252	80	10	60
SL0608□-392K-N	3.9	252	80	11	55
SL0608□-472K-N	4.7	252	80	15	52
SL0608□-562K-N	5.6	252	80	16	50
SL0608□-682K-N	6.8	252	80	22	45
SL0608□-822K-N	8.2	252	80	25	40
SL0608□-103K-N	10	79.6	80	32.5	35
SL0608□-123K-N	12	79.6	80	53	32
SL0608□-153K-N	15	79.6	80	62	30
SL0608□-183K-N	18	79.6	80	68	28
SL0608□-223K-N	22	79.6	80	78	25
SL0608□-273K-N	27	79.6	80	90	22
SL0608□-333K-N	33	79.6	80	150	20
SL0608□-393K-N	39	79.6	80	160	16
SL0608□-473K-N	47	79.6	80	190	15

- L & Q: HP4285+HP42851A
- RDC: CHEN HWA502BC

Note:

- lead-free
- CHILISIN uses UL tube on SL series o avoid damage w hen wave soldering.
- Customized specifications are also welcome.

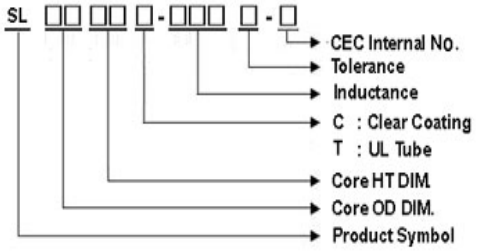
CHILISIN ELECTRONICS CORP.

Leaded RF Chokes – SL Series

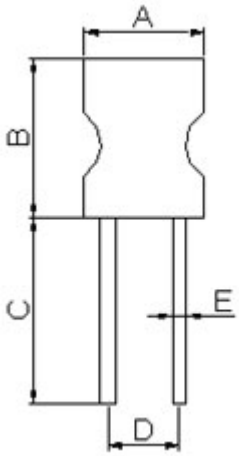
Features

- Low cost
- Wide range of inductance
- High reliability

Product Identification



Shapes and Dimensions



Dimension in mm

A	13^{+0}
B	19^{+0}
C	20^{-0}
D	6.5±1.5
E	0.8¢

Note:

- lead-free
- CHILISIN has UL tube on SL Series to avoid damage when wave soldering.
- Customized specifications are also welcome.

Electrical Parameters

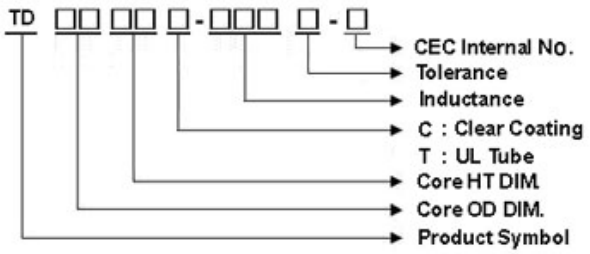
Part Number	Inductance (㎜H)	Test Frequency (KHz), 1V	D.C Resistance (Ⓦ) Max	IDC (A)
SL1016□-4R7K-N	4.7	1	0.018	10
SL1016□-6R8K-N	6.8	1	0.020	10
SL1016□-8R2K-N	8.2	1	0.022	10
SL1016□-100K-N	10	1	0.027	7.6
SL1016□-120K-N	12	1	0.024	7.5
SL1016□-150K-N	15	1	0.031	6.5
SL1016□-180K-N	18	1	0.039	6.0
SL1016□-220K-N	22	1	0.039	5.4
SL1016□-330K-N	33	1	0.047	4.4
SL1016□-470K-N	47	1	0.053	3.8
SL1016□-560K-N	56	1	0.068	3.4
SL1016□-680K-N	68	1	0.078	3.0
SL1016□-101K-N	100	1	0.099	2.5
SL1016□-121K-N	120	1	0.128	2.0
SL1016□-151K-N	150	1	0.182	1.8
SL1016□-181K-N	180	1	0.195	1.6
SL1016□-221K-N	220	1	0.312	1.4
SL1016□-271K-N	270	1	0.32	1.3
SL1016□-331K-N	330	1	0.39	1.2
SL1016□-391K-N	390	1	0.40	1.1
SL1016□-471K-N	470	1	0.49	1.0
SL1016□-561K-N	560	1	0.52	0.95
SL1016□-681K-N	680	1	0.88	0.80
SL1016□-821K-N	820	1	0.89	0.75
SL1016□-102K-N	1000	1	1.50	0.65
SL1016□-122K-N	1200	1	1.15	0.60
SL1016□-152K-N	1500	1	1.3	0.52
SL1016□-182K-N	1800	1	1.9	0.50
SL1016□-222K-N	2200	1	2.0	0.45
SL1016□-332K-N	3300	1	4.6	0.35
SL1016□-472K-N	4700	1	5.6	0.30
SL1016□-682K-N	6800	1	7.0	0.25
SL1016□-752K-N	7500	1	7.7	0.24
SL1016□-822K-N	8200	1	10.4	0.23
SL1016□-103K-N	10000	1	11.7	0.18
SL1016□-123K-N	12000	1	13.8	0.16
SL1016□-153K-N	15000	1	15.6	0.15
SL1016□-223K-N	22000	1	23.4	0.10

- L: HP4263B
- RDC: CHEN HWA502BC
- IDC: CHEN HWA CH1061+301A

CHILISIN ELECTRONICS CORP.

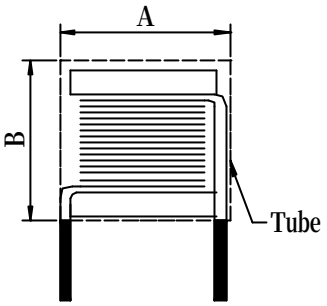
TD Series

Product Identification



- Note: lead-free
- CHILISIN uses UL tube on TD Series to avoid the damage when wave soldering.
- Customized specifications are welcome.

Shapes and Dimensions



Dimension in mm

	TD0608C	TD0608T	TD0809C	TD0809T
A	9^{+0}	10^{+0}	11^{+0}	12^{+0}
B	8±0.5	15^{+0}	9±0.5	21^{+0}

Specification:

Inductance L = 1µH ~ 220µH @ 1 KHz, 1V

- Shrinkable Tube or Clear Coating
- Test instrument: L: HP4263B LCR Meter

TC Series

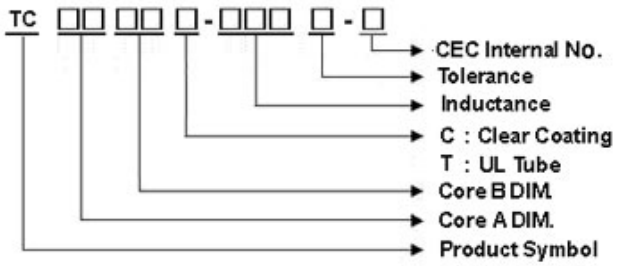
Features

- For high current
- Printed circuit mounting

Applications

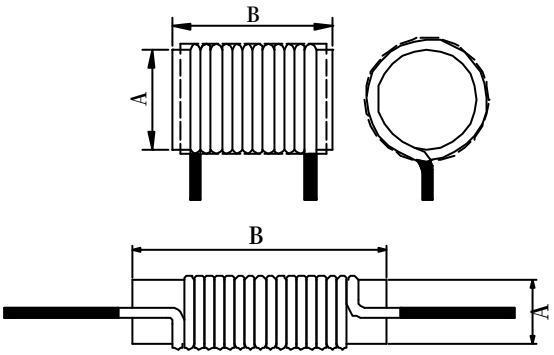
For switching regulators, switching power supplies, typewriting machines, amplifiers, monitors, TVs, UPSs, etc

Product Identification



- Note: lead-free
- CHILISIN uses UL tube on TC Series to avoid the damage when wave soldering.
- Customized specifications are welcome.

Shapes and Dimensions



Specification:

Inductance L = 1µH ~ 220µH @ 1 KHz, 1V

- Shrinkable Tube or Clear Coating
- Core Dimensions of A & B are customer design.
- Test instrument: L: HP4263B LCR Meter

CHILISIN ELECTRONICS CORP.

BCB0401RI Series

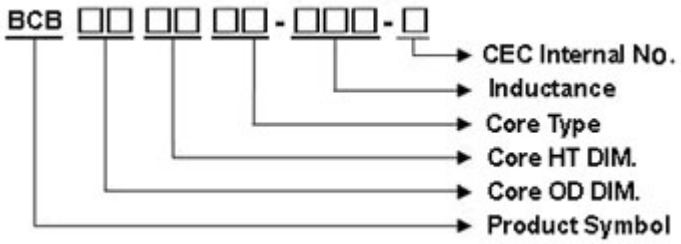
Features

- Compact size
- High performance
- Low cost
- Enable common-mode noise suppression without influence signals

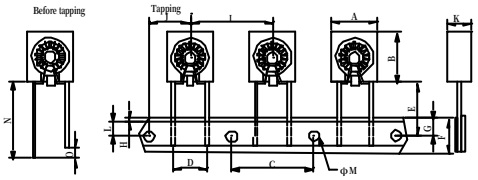
Applications

- EMI countermeasures at signal lines of personal computers, microcomputers, peripheral devices, etc.
- Countermeasures against common-mode noise at composite video signals.

Product Identification



Shapes and Dimensions



Dimensions in mm

A	8^{+0}	**I**	12.7±1.0
B	9.5^{+0}	**J**	6.35±1.3
C	12.70±0.3	**K**	3.5^{+0}
D	4.80~5.8	**L**	13±0.3
E	18.5^{+0}	**M**	4±0.2
F	17.50~19.0	**N**	21±0.5
G	9.5±0.5	**O**	5±0.5
H	1.0^{+0}		

Electrical Specifications

Part Number	Rated Current (mA)	Inductance (μH)	DC Resistance (mO) Max	Insulation Voltage (VDC)	Insulation Resistance (mO) Min
BCB0401RI - 4R7 - N	500	4.7±50%	21	200	10
BCB0401RI - 8R2 - N		8.2±50%	25		
BCB0401RI - 100 - N		10±50%	26		
BCB0401RI - 220 - N		22±35%	35		
BCB0401RI - 330 - N		33±35%	42		
BCB0401RI - 390 - N		39±35%	62		
BCB0401RI - 560 - N		56±35%	85		

- Note: lead-free
- Customized specifications are also welcome.

Packaging Specifications

A. Bulk
B. Ammunition packaging
   1. Quantity Per Ammo: 2000 PCS
   2. Ammo Size: 334x245x45 mm
   3. Carton Size: 540x350x275 mm

Quantity of Carton: 20000 PCS

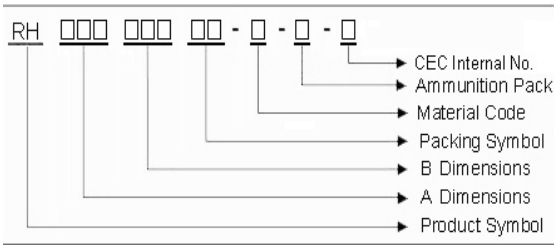
CHILISIN ELECTRONICS CORP.

RH Series

Chilisin's EMI / RFI filters are useful for suppressing noise mainly of low impedance circuits. They can effectively absorb any given spectrum of noise by selecting the appropriate ferrite material.

These filters are comparatively cost effective and are easy to install. They could attenuate the unwanted noise & EMI without degradation of the informative signal.

Product Identification



Features

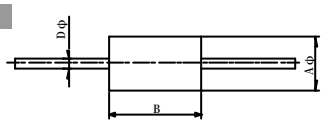
- These filters suppress voltage & current spikes within the circuits and provide protection to semiconductor devices.
- These filters can be mounted directly onto the leads of components utilizing no additional space.
- When these products are placed in series with diodes, they more effectively suppress transient current changes which cause noise than other methods.
- Best designed and tested to offer perfect space utilization and accurate impedance.

Applications

- Prevention of high frequency EMI from Video and acoustic communication units as well as other electronic devices.

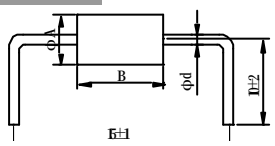
Shapes and Dimensions

Axial



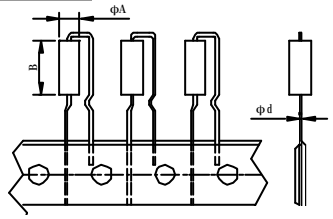
□: Bulk: S Reel / Ammo: ST

Radial Transversal

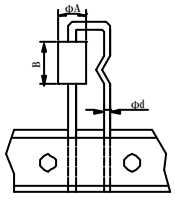


□: Bulk: S

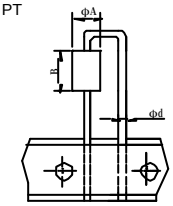
Radial Erection



□: Bulk: PS Reel / Ammo: PT

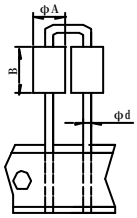


□: Bulk: AS Reel/ Ammo: AT



□: Bulk: AS Reel / Ammo: B1T

Radial Pair



□: Bulk: B2 Reel / Ammo: B2T

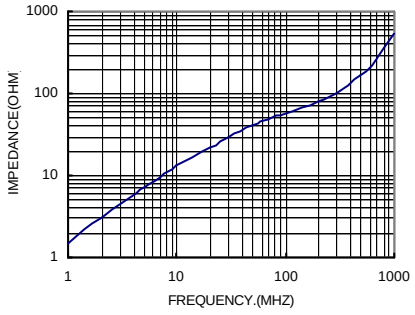
Dimensions & Electrical Characteristics

Category	Remark	Dimensions (mm)				Impedance. (Ω) Min	
		Part No.	A	B	d	10 MHz	100 MHz
Axial	□: S, ST ▽: A, B	RH025015 □-B-▽-N	2.5±0.15	1.5±0.15	0.65	5.0	10.0
		RH02503 □-B-▽-N		3.0±2.0		8.0	25.0
		RH02504 □-B-▽-N		4.0±0.2		12.0	30.0
		RH02507 □-Y7-▽-N		7.0±0.3		20.0	60.0
		RH03503 □-B246-N	3.5±0.2	3.0±0.2	0.65	13.0	35.0
		RH03503 □-B-N		3.0±0.2		13.0	35.0
		RH035045 □-B-N		4.5±0.2		20.0	45.0
		RH035047 □-Y7-N		4.7±0.2		20.0	60.0
		RH03505 □-B-N		5.0±0.2		20.0	50.0
		RH03506 □-Y7-N		6.0±0.2		20.0	80.0
		RH03506 □-B-N		6.0±0.2		25.0	65.0
		RH035078 □-Y7-N		7.8±0.3		28.0	90.0
		RH035078 □-B-N		7.8±0.3		30.0	85.0
		RH03583 □-Y7-N		8.3±0.3		30.0	100.0
		RH03509 □-B246-N		9.0±0.4		60.0	100.0
		RH03509 □-B-N		9.0±0.4		50.0	80.0
		RH035115 □-Y7-N		11.5±0.5		45.0	145.0
		RH03514 □-B-N		14.0±0.5		60.0	100.0
		RH08010 □-B-N	8.0±0.3	10.0±0.4	0.80	50.0	130.0
Radial Transversal		RH035045 B-B-N	3.5±0.2	4.5±0.2	0.65	20.0	45.0
		RH03506 B-B-N		6.0±0.3		20.0	65.0
		RH03509 B-B246-N		9.0±0.4		60.0	100.0
Radial Erection	□: PS AS B1, PT AT B1T	RH035045 □-B-N	3.5±0.2	4.5±0.2	0.65	20.0	45.0
		RH03506 □-B-N		6.0±0.3		25.0	65.0
Radial Pair	□: B2, B2T	RH035045 □-B-N	3.5±0.2	4.5±0.2	0.65	20.0	80.0
		RH03506 □-Y7-N		6.0±0.3		25.0	110.0

- Note: lead-free

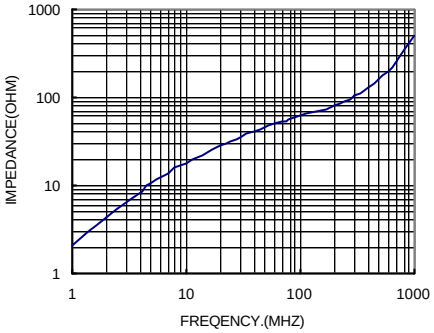
Impedance VS Frequency Characteristics

RH02503ST-B-N



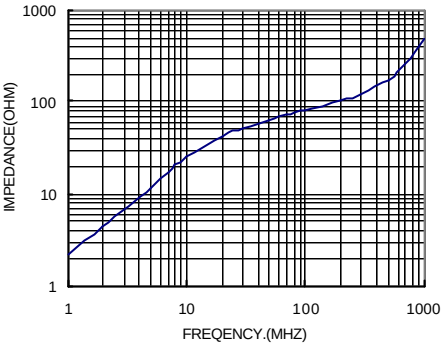
Test Meter: HP4287A
Test Fixture: HP16092
Test Wire:0.65Φ T.C.W.*63mm
Test Winding: 1/2Ts.

RH02504S-B-N



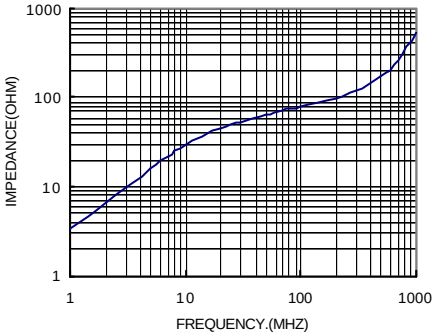
Test Meter: HP4287A
Test Fixture: HP16092A
Test Wire:0.65Φ T.C.W.*63mm
Test Winding: 1/2Ts.

RH035047ST-Y7-N



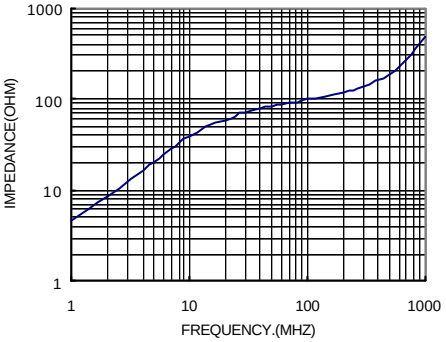
Test Meter: HP4287A
Test Fixture: HP16092A
Test Wire:0.65Φ T.C.W.*63mm
Test Winding: 1/2Ts.

RH03505S-B-N



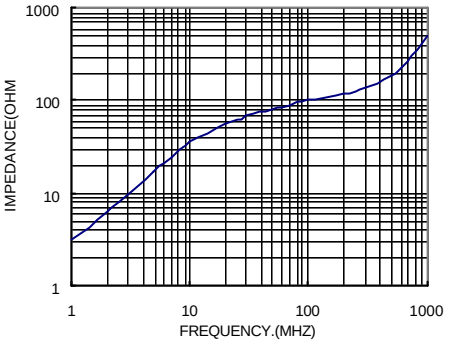
Test Meter: HP4287A
Test Fixture: HP16092
Test Wire:0.65Φ T.C.W.*63mm
Test Winding: 1/2Ts.

RH03506S-B-N



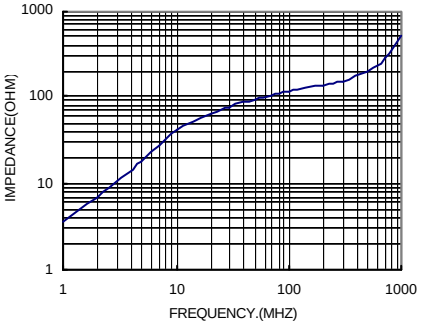
Test Meter: HP4287A
Test Fixture: HP16092A
Test Wire: 0.65Φ T.C.W.*63mm
Test Winding: 1/2Ts.

RH03506S-Y7-N



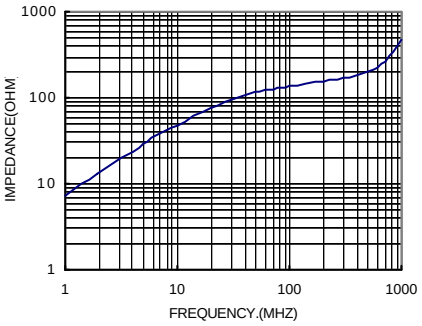
Test Meter: HP4287A
Test Fixture: HP16092
Test Wire: 0.65Φ T.C.W.*63mm
Test Winding: 1/2Ts.

RH035067S-Y7-N



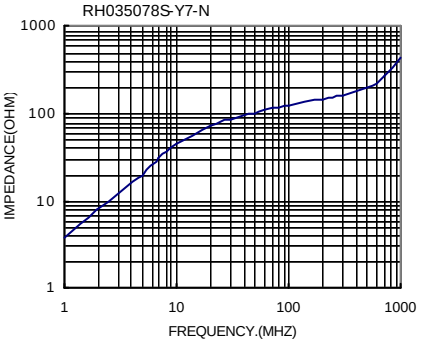
Test Meter: HP4287A
Test Fixture: HP16092A
Test Wire: 0.65Φ T.C.W.*63mm
Test Winding: 1/2Ts.

RH035078S-B-N



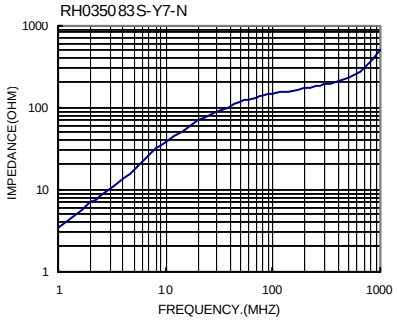
Test Meter: HP4287A
Test Fixture: HP16092
Test Wire: 0.65Φ T.C.W.*63mm
Test Winding: 1/2Ts.

RH035078S-Y7-N



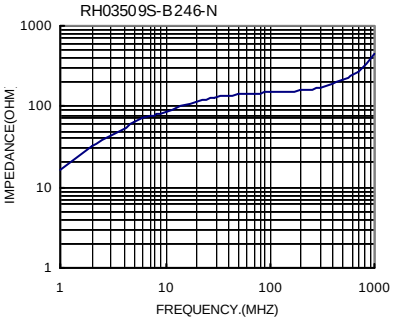
Test Meter: HP4287A
Test Fixture: HP16092A
Test Wire:0.65Φ T.C.W.*63mm
Test Winding: 1/2Ts.

RH035083S-Y7-N



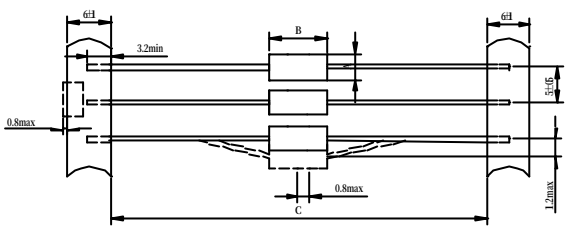
Test Miter: HP4287A
Test Fixture: HP16092
Test Wire:0.65Φ T.C.W.*63mm
Test Winding: 1/2Ts.

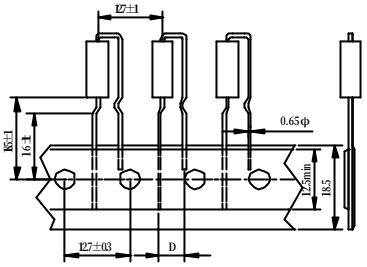
RH035093S-B246-N



Test Meter: HP4287A
Test Fixture: HP16092A
Test Wire:0.65Φ T.C.W.*63mm
Test Winding: 1/2Ts.

Packaging Dimensions





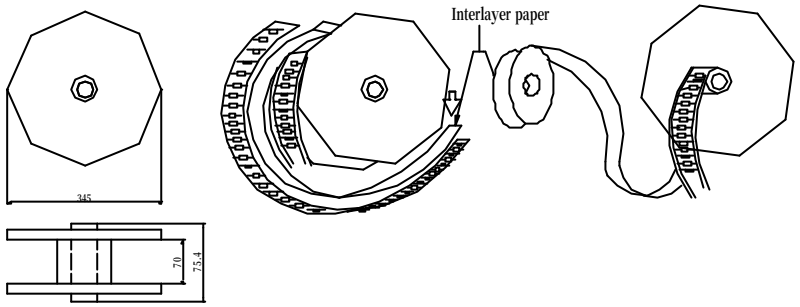
Dimensions in mm

	Tape	Bulk
C	$26.5^{+1.0}_{-0.5}$ 52.4±1.5	63±3

Dimensions in mm

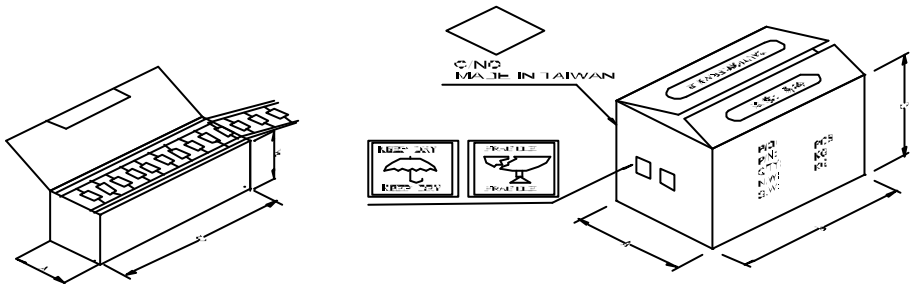
Lead Spacing	Packing Style	Tape	Bulk
D	Erection Pair	4.8~ 5.8	6.35±1 5±1

Reel Packaging



Unit: mm

Ammo-Packaging



Size of Packaging

	Carton dimensions in mm (H*W*H)	Quantity (Pcs)
Reel	350*430*340	20,000
Ammon	260*260*224	25,000
	380*415*385	25,000
Bulk	150*75*85	30,000

R6H / R8H Series

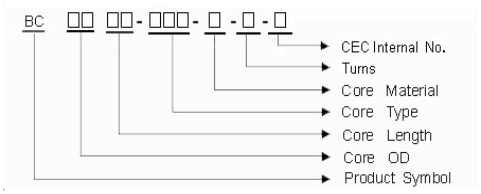
Features

The chokes consist of rod-type bodies with six or eight axial holes through which wire is threaded to from a 0.5,1.0, 2.5, 3, 1.5*2 or 3.5 turns coil.

Applications

- R6H R8H Type Cores are used for Wide Band Choke. The impedance is substantially resistive and constant.
- Used in PC boards to filter the EMI from the outsides.
- For radio and TVs, small motor ignition devices, computer disk drivers and communication equipments, etc.

Product Identification

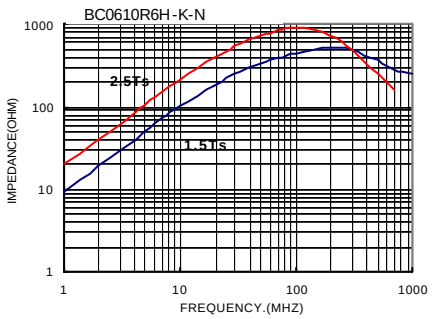


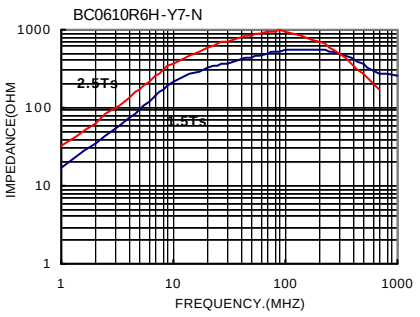
- Material: K, Y7, B, B246, B319
- Note: lead-free

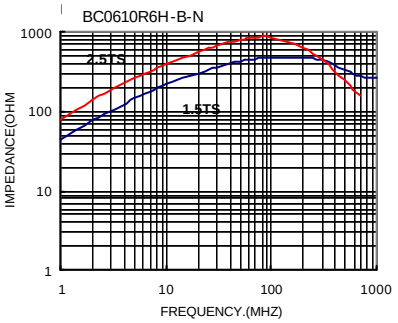
Electrical Characteristics

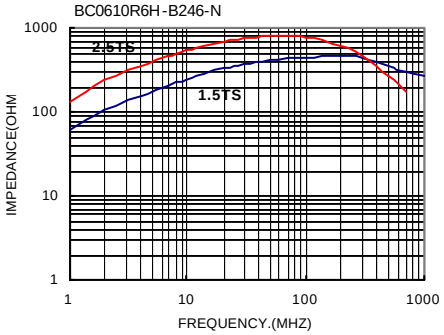
Part Number	Core Material	Turns	Typical Impedance (Ω)		
			10 MHz	50MHz	100MHz
BC 0610 R6H	K	0.5	30	98	127
	Y7		58	123	166
	B		68	111	129
	B246		77	119	128
	K	1.0	58	182	233
	Y7		84	231	273
	B		105	170	185
	B246		146	225	240
	K	1.5 or 1.5x2	100	337	440
	Y7		189	460	560
	B		189	400	478
	B246		286	400	461
	K	2.5	214	720	900
	Y7		320	880	1020
	B		397	700	720
	B246		465	820	800
	K	3.0	250	961	1158
	Y7		400	1000	1140
	B		440	950	940
	B246		667	993	880
BC 0510 R8H	B319	3.5	507	750	710

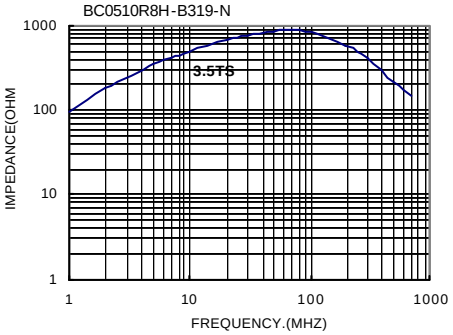
Impedance vs. Frequency Characteristics











CHILISIN ELECTRONICS CORP.

BC Series

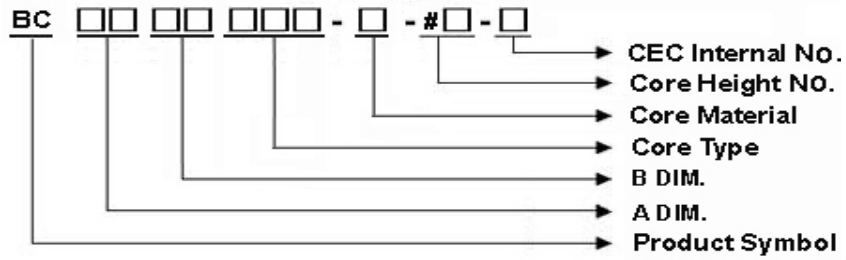
Features

- Compact
- High performance
- Easy to install

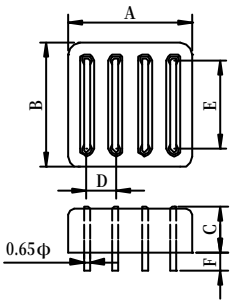
Applications

These PC Beads are mainly used in the PC board of personal computers, microcomputers and relative devices to filter EMI from outside.

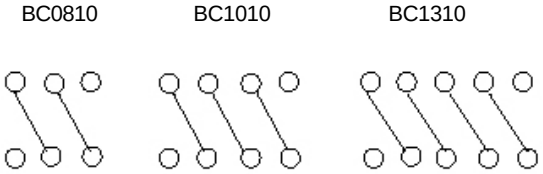
Product Identification



Shapes and Dimensions



Print Circuit Board Payout



Dimensions and Electrical Characteristics

Part Number		Line	Dimensions (mm)						Z (W) Typ	
			A	B	C	D	E	F	25 MHz	100 MHz
BC0810F6H	-B#1-N	3	8.34±0.25	10.88±0.25	5.19^{+0}	2.54±0.1	7.62±0.1	2.3^{-0}	75	100
	-B#2-N				6.46^{+0}				100	140
	-B#3-N				7.73^{+0}				130	170
	-B#4-N				9.00^{+0}				140	200
	-B#5-N				9.47^{+0}				150	220
	-B#6-N				11.54^{+0}				175	270
BC1010F8H	-B#1-N	4	10.88±0.25	10.88±0.25	5.19^{+0}	2.54±0.1	7.62±0.1	2.3^{-0}	75	100
	-B#2-N				6.46^{+0}				100	140
	-B#3-N				7.73^{+0}				130	170
	-B#4-N				9.00^{+0}				140	200
	-B#5-N				9.47^{+0}				150	220
	-B#6-N				11.54^{+0}				175	270
BC1310F10H	-B#1-N	5	13.42±0.25	10.88±0.25	5.19^{+0}	2.54±0.1	7.62±0.1	2.3^{-0}	75	100
	-B#2-N				6.46^{+0}				100	140
	-B#3-N				7.73^{+0}				130	170
	-B#4-N				9.00^{+0}				140	200
	-B#5-N				9.47^{+0}				150	220
	-B#6-N				11.54^{+0}				175	270
BC1105F8H-B		4	10.88±0.5	5.49±0.25	12^{+0}	2.54±0.1	2.54±0.1	2.5±0.2	15^{-0} @1MHz	165^{-0} @100MHz

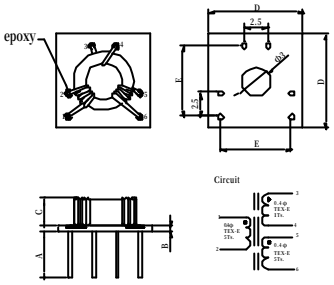
- Note: lead-free

CHILISIN ELECTRONICS CORP.

BCB Series

High Speed Data Line Filters

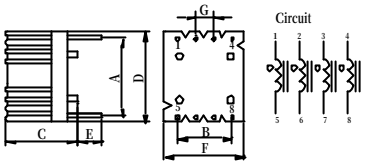
BCB0603RI-4R4-N



Dim (mm)	A	B	C	D	E
	5.0±1.0	0.5±0.05	6.0^{+0}	10±0.5	7.5±0.5

Spec	L(1-2)(μH)	L(3-4)(μH)	L(5-6)(μH)
	3.54~5.53	0.141~0.52	3.6~6.53

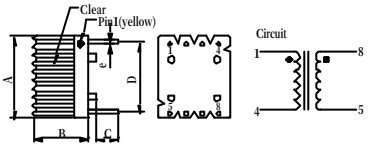
BCB1104RI-330-N



Dim (mm)	A	B	C	D	E	F	G
	10.8 ±0.5	7.62 ±0.5	8.89^{+0}	12.45 ±0.5	3.5 ±0.5	10.92 ±0.5	2.5 ±0.15

Spec	L(μH) @100KHz	LK(μH) @1KHz	RDC (Ω)	Interwinding Capacitance (pF)
	25~50	1^{+0}	0.07^{+0}	30^{+0}

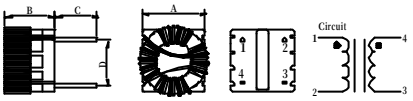
BCB1306RI-221-N



Dim (mm)	A	B	C	D	E
	16.0^{+0}	12.7^{+0}	3.48±0.5	10.8±0.5	0.65φ

Spec	L(μH) @ 1KHz 1V	RDC (mΩ)
	220±30%	25 $^{+0}$

BCB1306RI-221-N



Dim (mm)	A	B	C	D
	15^{+0}	12^{+0}	3.5±1	7.8±0.2

Spec	L (mH)	RDC (Ω)	Hi-Pot (V)(AC&DC)
	1.5^{-0}	0.11	650

CHILISIN ELECTRONICS CORP.

BCC0403RI / BCC0706 Series

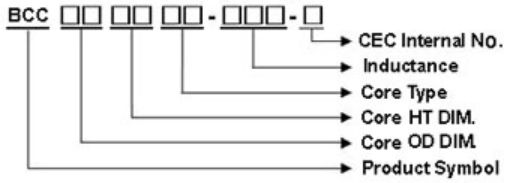
Feature

- Common mode for DC power lines
- Single layer winding for minimun

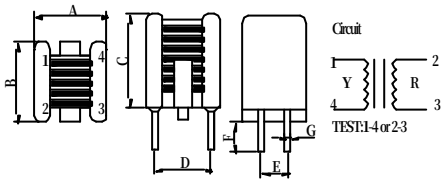
Applications

- EMI filters
- Personal computers
- Communication equipment

Product Identification



Shapes and Dimensions



Dimension in mm

	A Max	B Max	C Max	D	E	F	G
0403	7.5	6.4	9	5.08 ±0.5	2.54 ±0.3	3.2 ±0.3	0.6 ø
0706	7.9	7.35	9.6	5.08 ±0.5	2.54 ±0.3	3.2 ±0.3	0.6 ø

- Note: lead-free
- Customized specifications are also welcome.

Electrical Specifications

BCC0403 Series

Part Number	L(μH) @1KHz 1V	RDC (mΩ)
BCC0403RI-5R0-N	5^{-0}	60^{+0}
BCC0403RI-800-N	80±35%	55^{+0}

BCC0706 Series

Part Number	L (μH) @10KHz 0.1V	RDC (mΩ)	Z (Ω)Typ
BCC0706RI-5R0-N	5^{-0}	27^{+0}	300 @300MHz
BCC0706RI-140-N	14^{-0}	44^{+0}	800 @100MHz
BCC0706RI-300-N	30^{-0}	58^{+0}	1500 @200MHz
BCC0706RI-600-N	60^{-0}	84^{+0}	2500 @30MHz
BCC0706RI-900-N	90^{-0}	105^{+0}	3800 @400MHz

CHILISIN ELECTRONICS CORP.

BCC Series

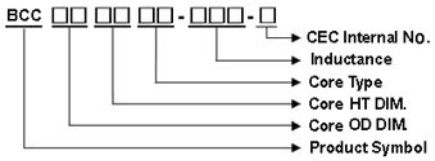
Feature

- Compact size and lightweight
- Excellent frequency characteristics

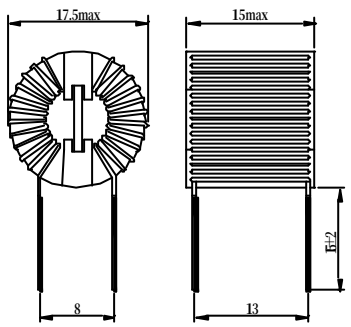
Applications

- For line filter of switching power supplies
- Countermeasures against static noise at power lines and signal lines
- For TVs, monitors and audio equipments
- For line filters of AC adapters, battery chargers, etc.

Product Identification



Shapes and Dimensions



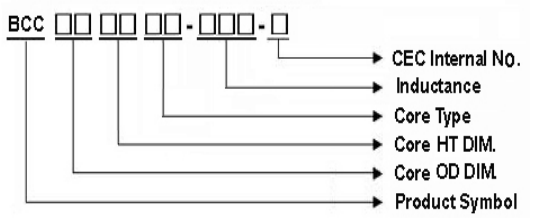
Unit: mm

Electrical Specifications

Part Number	Inductance (mH) Min	Rated Current (A)	DC Resistance (mΩ/line) Max	Wire Size (mmψ)
BCC1307RI-601-N	0.6	1	60	0.4
BCC1307RI-102-N	1.0	1	70	0.4
BCC1307RI-202-N	2.0	1	100	0.4
BCC1307RI-302-N	3.0	1	120	0.4
BCC1307RI-502-N	5.0	1	150	0.4
BCC1307RI-702-N	7.0	1	200	0.4
BCC1307RI-601-N	0.6	2	50	0.5
BCC1307RI-102-N	1.0	2	60	0.5
BCC1307RI-202-N	2.0	2	70	0.5
BCC1307RI-302-N	3.0	2	85	0.45
BCC1307RI-502-N	5.0	2	95	0.45
BCC1307RI-601-N	0.6	3	30	0.6
BCC1307RI-102-N	1.0	3	35	0.6

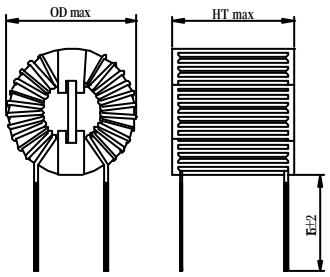
- Inductance measurement condition: 1KHz HP-4263B
- Note: lead-free
- Customized specifications are also welcome.

Product Identification



- Core Material (Mu-Zn)

Shapes and Dimensions



Dimensions in mm

Part Number	Case OD	Case HT
BCC1608RI-	17.5	12
BCC1810RI-	19.5	14
BCC2208RI-	23.5	12
BCC2513RI-	26.5	17
BCC3113RI-	32.5	17

- Note: lead-free
- Customer's specifications are also w elcome.

CHILISIN ELECTRONICS CORP.