

SKYWORKS[®]

BREAKTHROUGH SIMPLICITY



Product Selection Guide

Fall 2008



Skyworks Solutions

Skyworks Solutions, Inc. is an innovator of high-performance analog and mixed-signal semiconductors enabling mobile connectivity. The company's power amplifiers, front-end modules and direct conversion transceivers are at the heart of many of today's leading-edge multimedia handsets. Leveraging core technologies, Skyworks also offers a diverse portfolio of linear products that support automotive, broadband, cellular infrastructure, industrial and medical applications.



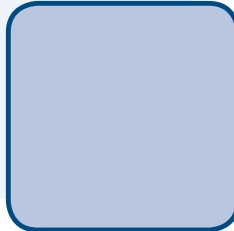
Headquartered in Woburn, Massachusetts, USA, Skyworks is worldwide with engineering, manufacturing, sales and service facilities throughout Asia, Europe and North America.



New products are continually being introduced at Skyworks. For the latest information, visit our Web site at www.skyworksinc.com. For additional information, please contact your local sales office or email us at sales@skyworksinc.com.

The Skyworks Advantage

- Broad multimode radio and precision analog product portfolio
- Market leadership in key product segments
- Solutions for all air interface standards, including CDMA2000, GSM/GPRS/EDGE, WCDMA, WLAN and WiMAX
- Engagements with a diverse set of top-tier customers
- Analog, RF and mixed-signal design capabilities
- Access to all key process technologies: GaAs HBT, PHEMT, BiCMOS, SiGe, CMOS and RF CMOS
- World-class manufacturing capabilities and scale
- Unparalleled level of customer service and technical support
- Commitment to technology innovation





INDEX

Mobile Platforms

DCR™ Transceivers	6
GPRS RF Subsystems	7
GSM/GPRS/EDGE Power Amplifiers	8
Helios™ RF Solutions	9
Helios™ Analog I/Q Subsystems	9
Helios™ EDGE Digital I/Q Subsystems	11
Helios™ WEDGE Transceivers	13
Intera™ Front-End Modules	14
TD-SCDMA Power Amplifiers	17
WCDMA/CDMA Power Amplifiers	17

Reference Material

Block Diagrams	87
Package Selection Guide	105
Warranty/Order Information	109
Part Number Index	110
Skyworks Sales Representatives	114
Skyworks Distributors	116
Skyworks Sales Offices	123

Linear Products

Amplifiers	20
Attenuators	22
Diodes	25
Directional Couplers/Detectors	63
Filters	64
Hybrids	64
Infrastructure RF Subsystems	65
Intera™ Front-End Modules (WLAN)	67
MIS Silicon Chip Capacitors	68
Mixers/Demodulators	68
Modulators	70
Phase Shifters	70
PLLs/Synthesizers/VCOs	71
Power Dividers/Combiners	72
Receivers	72
Switches	73
Technical Ceramics	74

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MOBILE PLATFORMS

DCR™ Transceivers	6
GPRS RF Subsystems	7
GSM/GPRS/EDGE Power Amplifiers	8
Helios™ RF Solutions	9
Helios™ Analog I/Q Subsystems	9
Helios™ EDGE Digital I/Q Subsystems	11
Helios™ WEDGE Transceivers	13
Intera™ Front-End Modules	14
TD-SCDMA Power Amplifiers	17
WCDMA/CDMA Power Amplifiers	17



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DCR™ TRANSCEIVERS

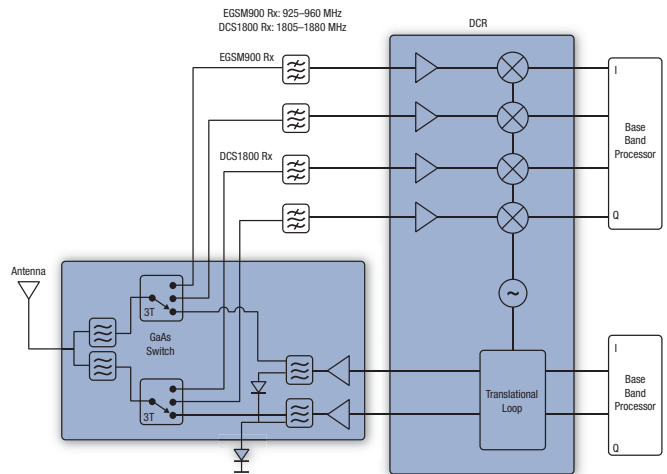
Skyworks has shipped over 30 million direct conversion radio transceivers since it launched the world's first single-chip DCR™ transceiver over two years ago. Now used by over 20 of the world's leading manufacturers in more than 100 models, Skyworks single-chip DCR™ transceiver radically simplifies cellular phone architectures, reduces cost, improves handset power efficiency, and enables key features such as built-in cameras and large color screens. Skyworks family of DCR™ transceivers stands alone in the industry and is at the heart of Skyworks multiband GSM/GPRS/EDGE RF subsystems.

The DCR™ Transceiver family features:

- Direct downconversion eliminates IF stage
- Integrated quad-band LNAs, transmit VCOs, and loop filters
- Single integrated, fully programmable fractional-N synthesizer
- Digital crystal oscillator reference frequency control
- Low external component count

The DCR™ Transceiver family consists of:

-  SKY74117-13A RF Transceiver—Direct conversion transceiver that can be combined with virtually any standard GSM/EGPRS baseband without requiring special processing interfaces
-  SKY74963-23 RF Transceiver—Direct conversion transceiver with a power ramping controller and integrated crystal oscillator



Quad-Band GSM/GPRS RF Subsystem with DCR™ Transceiver Block Diagram

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GPRS RF SUBSYSTEMS


Skyworks GPRS RF subsystem family consists of Skyworks GPRS transceiver and power amplifier products. GPRS RF subsystem products offer a high level of integration in a small form factor.

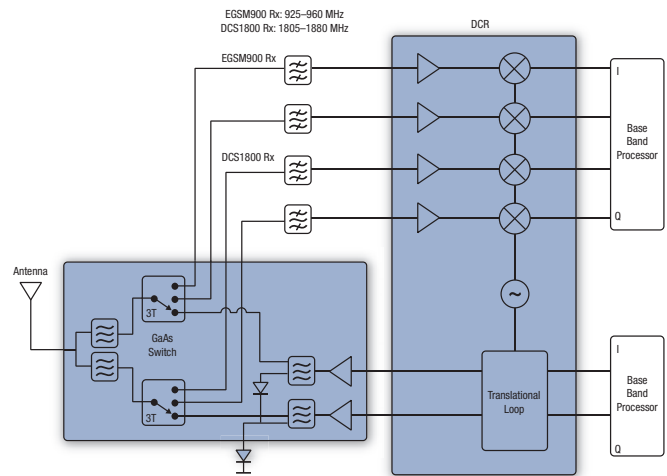
These high-performance, field-proven RF subsystems allow wireless terminal manufacturers worldwide to significantly reduce the RF footprint and minimize power consumption for next-generation multiband GPRS handsets.

Typical GPRS RF Subsystem product features:

- Direct downconversion receivers that eliminate IF filters
- Integrated quad-band LNAs, transmit VCOs, and loop filters
- Single integrated, fully programmable fractional-N synthesizers
- Integrated digital crystal oscillator
- Quad-band, multislotted GPRS Class 12 operation
- Support for GPRS and downlink EDGE standards
- Direct conversion architectures that eliminate IF conversion stages
- Compatible with Skyworks baseband devices and numerous 3rd party baseband devices

GPRS RF Subsystems:

-  SKY74117-13A DCR™ Transceiver and SKY77500 Front-End Module—Direct conversion radio device is combined with a transmit and receive front-end module and is compatible with any GSM/EGPRS baseband








Quad-Band GSM/GPRS RF Subsystem with DCR™ Transceiver Block Diagram

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GSM/GPRS/EDGE POWER AMPLIFIERS

PA Modules for GSM/GPRS/EDGE Handsets

Part Number	Frequency (MHz)	Description	Typical Output Power (dBm) GSM/EDGE	Typical PAE (%)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
 SKY77340	824–849	PAM for Quad-Band GSM/EDGE GSM850	34.5	55	33.0	2.9–4.8	16-pin MCM 6 x 8 x 1.2
	880–915	GSM900	34.5	55	33.0		
	1710–1785	DCS1800	32.5	53	34.5		
	1850–1910	PCS1900	32.5	53	34.5		
 SKY77336	824–849	iPAC™ PAM for Quad-Band GSM/GPRS/EDGE GSM850	35.0	55	–	3.0–4.8	16-pad MCM 5 x 5 x 1.0
	880–915	GSM900	35.0	55	–		
	1710–1785	DCS1800	33.0	53	–		
	1850–1910	PCS1900	33.0	53	–		
 SKY77334	824–849	iPAC™ PAM for Quad-Band GSM/GPRS GSM850	35.4	56	–		20-pad 6 x 6 x 1.2
	880–915	GSM900	35.1	55	–		
	1710–1785	DCS1800	33.2	54	–		
	1850–1910	PCS1900	32.9	53	–		
 SKY77328	824–849	iPAC™ PAM for Quad-Band GSM/GPRS GSM850	35.4	56	–	2.9–4.8	20-pin MCM 6 x 6 x 1.2
	880–915	GSM900	35.1	56	–		
	1710–1785	DCS1800	33.2	54	–		
	1850–1910	PCS1900	32.9	53	–		
 SKY77318	824–849	iPAC™ Module for Quad-Band GSM/GPRS GSM850	35.2	56	–	2.9–4.8	20-pin MCM 6 x 6 x 1.2
	880–915	GSM900	35.2	56	–		
	1710–1785	DCS1800	33.5	52	–		
	1850–1910	PCS1900	33.5	52	–		

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HELIOS™ RF SOLUTIONS

The Skyworks Helios™ family is a group of single or multidevice cellular radio solutions that save significant space, cost, and design cycle time while providing improved performance. These highly integrated Helios™ solutions are available for selected mobile handset applications.



HELIOS™ EDGE ANALOG I/Q SUBSYSTEMS

Helios™ II EDGE RF Subsystem



Complete two-chip, Helios™ EDGE-based subsystem for quad-band (GSM850, EGSM900, DCS1800, PCS1900) cellular handsets

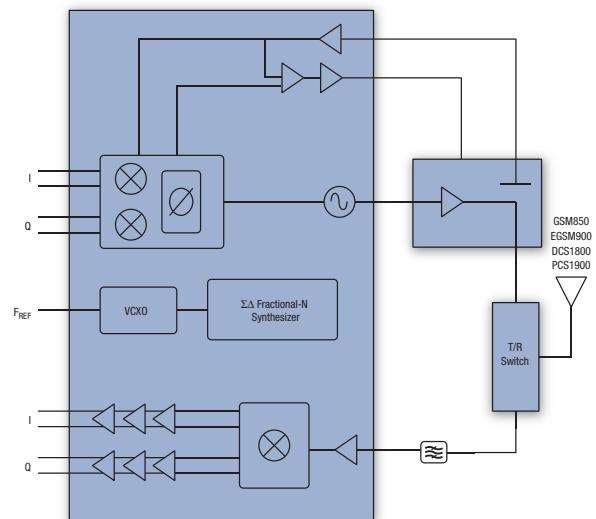
Skyworks Helios™ II EDGE RF Subsystem combines a direct conversion transceiver, PA, and a PA controller/modulator into a dual-chip radio solution that saves significant space, cost, and design cycle time while providing world-class GSM/GPRS/EDGE performance. At the heart of the radio subsystem is Skyworks advanced Polar Loop™ transmit modulation architecture, which enables the radio to transmit both constant and non-constant envelope signals through the same transmit path to minimize the number of external components required to build a mobile handset. This significantly reduces the complexity, size, cost, and power requirements of next-generation EDGE platforms.

The Helios™ II EDGE RF Subsystem features:


- Polar Loop™ transmit modulation architecture
- Four integrated differential LNAs
- Integrated noise filtering; no pre-PA filters required
- Closed loop phase and amplitude modulation (GMSK, $\pi/8$ 8-PSK) via control of nonlinear GSM PA
- PA inside control loop provides excellent EVM and phase error performance with up to 6:1 VSWR without external isolator
- Transmitter with integrated VCOs
- Fully integrated fractional-N synthesizer and UHF VCO
- Impedance matching circuitry

The Helios™ II EDGE RF Subsystem consists of:

-  SKY74137 RF Transceiver—Direct conversion transceiver eliminates the need for special baseband processing interfaces. The device also includes Skyworks Polar Loop™ transmit modulation architecture
-  SKY77331 Power Amplifier with Integrated Coupler—A highly integrated PA and PAC with separate GSM850/EGSM900 and DCS1800/PCS1900 control blocks, envelope amplitude control, 50 Ω I/O matching circuitry, and excellent EVM and phase error performance



Helios™ II EDGE RF Subsystem Block Diagram

 The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.

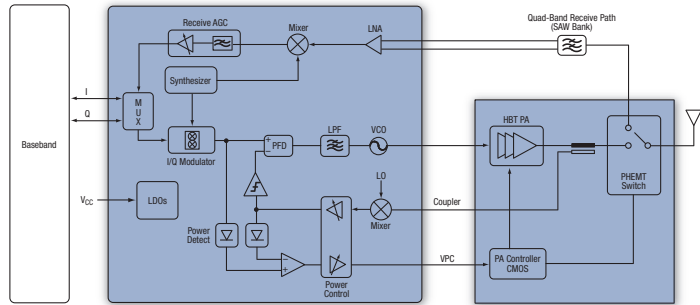
HELIOS™ EDGE ANALOG I/Q SUBSYSTEMS

Helios™ II-Plus EDGE RF Subsystem

Complete two-chip, Helios™ EDGE-based subsystem for quad-band (GSM850, EGSM900, DCS1800, PCS1900) cellular handsets

Skyworks Helios™ II-Plus EDGE RF Subsystem combines a direct conversion transceiver and a transmit/receive front-end module into a dual-chip radio solution that saves significant space, cost, and design cycle time while providing world-class GSM/GPRS/EDGE performance.

At the heart of the radio subsystem is Skyworks advanced Polar Loop™ transmit modulation architecture, which enables the radio to transmit both constant and non-constant envelope signals through the same transmit path to minimize the number of external components required to build a mobile handset. This significantly reduces the complexity, size, cost, and power requirements of next-generation EDGE platforms.



Helios™ II-Plus EDGE RF Subsystem Block Diagram

The Helios™ II-Plus EDGE RF Subsystem features:

- Polar Loop™ transmit modulation architecture
- Four integrated differential LNAs
- Integrated noise filtering; no pre-PA filters required
- Closed loop phase and amplitude modulation (GMSK, 8-PSK) via control of nonlinear GSM PA
- PA inside control loop provides excellent EVM and phase error performance with 6:1 VSWR without external isolator
- Transmitter with integrated VCOs
- Fully integrated fractional-N synthesizer and UHF VCO
- Impedance matching circuitry

The Helios™ II-Plus EDGE RF Subsystem consists of:

- SKY74138 RF Transceiver—Direct conversion transceiver eliminates the need for special baseband processing interfaces. The device also includes Skyworks Polar Loop™ transmit modulation architecture
- SKY77523 Transmit/Receive Front-End Module with Integrated Coupler—A highly integrated front-end module with separate GSM850/EGSM900 and DCS1800/PCS1900 control blocks, a PAC Block, impedance-matching circuitry, an integrated coupler, a pHEMT switch, and a diplexer for excellent EVM and phase error performance

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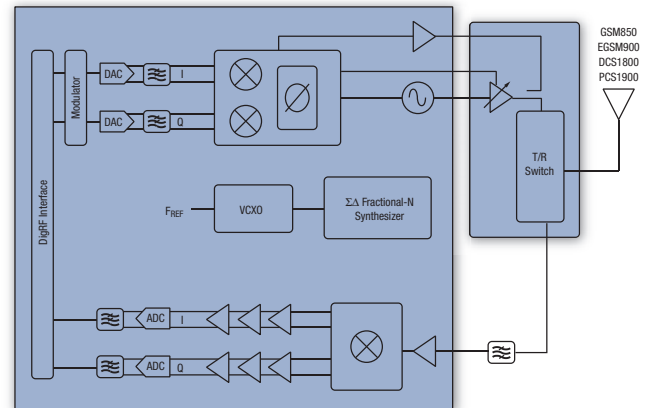
HELIOS™ EDGE DIGITAL I/Q SUBSYSTEMS

Helios™ DigRF RF Subsystem

Complete two-chip, Helios™ DigRF subsystem for quad-band (GSM850, EGSM900, DCS1800, PCS1900) cellular handsets

Skyworks Helios™ DigRF EDGE RF Subsystem combines a direct conversion transceiver, PA, and a T/R switch into a dual-chip radio solution that saves significant space, cost, and design cycle time while providing world-class GSM/GPRS/EDGE performance.

At the heart of the radio subsystem is Skyworks advanced Polar Loop™ transmit modulation architecture, which enables the radio to transmit both constant and nonconstant envelope signals through the same transmit path to minimize the number of external components required to build a mobile handset. This significantly reduces the complexity, size, cost, and power requirements of next-generation EDGE platforms.





Helios™ DigRF Subsystem Block Diagram

The Helios™ DigRF Subsystem features:

- Direct connection to single-cell lithium-ion battery
- Polar Loop™ transmit modulation architecture
- Integrated noise filtering; no pre-PA filters required
- Closed loop phase and amplitude modulation (GMSK, $\pi/8$ 8-PSK) via control of nonlinear GSM PA
- PA inside control loop provides excellent EVM and phase error performance with up to 6:1 VSWR without external isolator
- Compliant with V1.12 of the DigRF standard

The Helios™ DigRF Subsystem consists of:

-  SKY74200 RF Transceiver—Direct conversion transceiver eliminates the need for special baseband processing requirements and external image reject/IF filtering with DigRF interface
-  SKY77520 T/R Front-End Module—A highly integrated front-end module with separate GSM850/EGSM900 and DCS1800/PCS1900 PA blocks, a PAC block, impedance matching, an integrated coupler, a pHEMT switch, and a diplexer for excellent EVM and phase error performance

 The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.

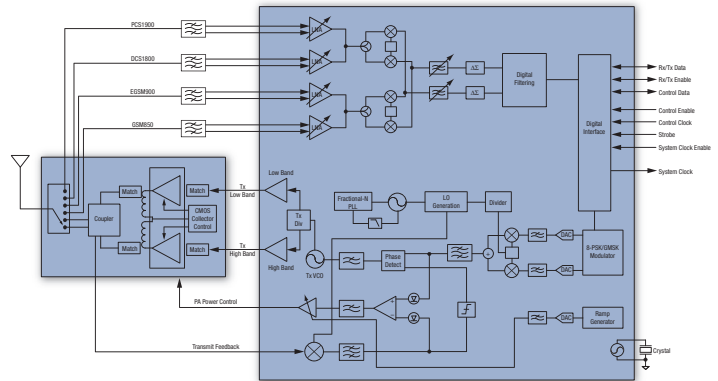
HELIOS™ EDGE DIGITAL I/Q SUBSYSTEMS

Helios™ 3 EDGE RF Subsystem

Complete two-chip, Helios™ 3 Subsystem for quad-band (GSM850, EGSM900, DCS1800, PCS1900) cellular handsets

Skyworks Helios™ 3 is the smallest and most efficient Polar Loop™ EDGE RF subsystem with a DigRF interface available on the market. The subsystem combines a highly integrated and fully programmable RF transceiver with a transmit/receive FEM that contains pHEMT switches, a PA, and an integrated coupler.

At the heart of the radio subsystem is Skyworks advanced Polar Loop™ transmit modulation architecture, which enables the radio to transmit both constant and non-constant envelope signals through the same transmit path to minimize the number of external components required to build a mobile handset. This significantly reduces the complexity, size, cost, and power requirements of next-generation EDGE platforms.



Helios™ 3 EDGE RF Subsystem Block Diagram

The Helios™ 3 EDGE RF Subsystem features:

- Direct connection to a single cell lithium-ion battery with no required external regulation
- Closed Polar Loop™ transmit modulation architecture
- Compatibility with v1.12 of the DigRF standard
- PA saturation detection and prevention circuit
- Support for multislot GPRS and EDGE applications up to Class 34/39
- Simplified control interface with channel and PCL programming

The Helios™ 3 EDGE RF Subsystem consists of:

- SKY74218 RF Transceiver—Highly integrated, quad-band RF transceiver with DigRF interface
- SKY77524 T/R Front-End Module—Quad-band front-end module with integrated coupler, pHEMT RF switch, and separate GSM850/EGSM900 and DCS1800/PCS1900 PA blocks provides a complete transmit path from transceiver output to antenna

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HELIOS™ WEDGE TRANSCEIVERS


Extending our expertise in GSM, GPRS, EDGE, and CDMA transceiver designs, Skyworks offers highly integrated Helios™ WEDGE transceivers suitable for EGPRS, WCDMA, and HSPA multimode handset applications.

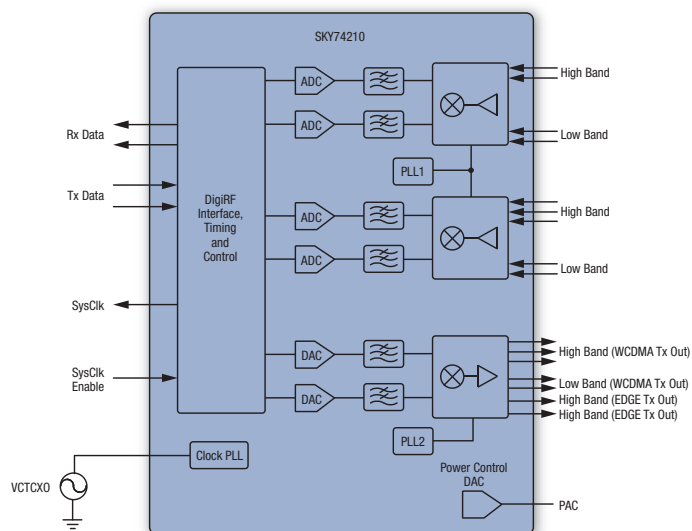
The multimode architecture of the Helios™ family of WEDGE transceivers allows the devices to be configured for optimal performance in various modes while sharing the same circuitry

The Helios™ WEDGE transceiver family features:

- Shared transmit path for WCDMA and EGPRS without the need for interstage transmit SAW filters
- Shared receive path for WCDMA and EGPRS without the need for interstage receive SAW filters
- EGPRS class 10 to 12 and class 30 to 34 capable
- HSDPA category 1 to 12 capable; HSUPA category 1 to 6 capable

The Helios™ WEDGE transceiver family consists of:

-  SKY74210—Direct conversion WEDGE transceiver suitable for 3G DigRF (v3.08) multiband EDGE and HSPA mobile handset applications



Helios™ WEDGE Transceiver Block Diagram

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INTERA™ FRONT-END MODULES

Designed with cost and space savings in mind, Skyworks Intera™ Front-End Modules (FEM) combine the company's industry-leading Power Amplifier (PA) module and switch functions into single, low-cost, laminate-based, Multichip Modules (MCMs), 40 percent smaller than alternative solutions. Key features of the transmit front-end modules include multiband/multimode power amplifiers, current sensing power control, high linearity transmit/receive switches, and all associated filtering, duplexing, and control functions. Further, the new module requires no external matching components, accelerating time to market.



Manufactured using Skyworks proprietary Heterojunction Bipolar Transistor (HBT) power amplifier process and low-loss Pseudomorphic High Electron Mobility Transistor (pHEMT) switch technologies, Intera™ FEMs deliver superior handset talk and standby time.

The Intera™ Front-End Modules feature:


- Multiband/multimode power amplifiers
- High linearity Tx/Rx switches
- Single multichip module design
- Reduced handset design time
- Superior handset talk and standby times



Front-End Module for WCDMA/HSPDA Handsets—Band 1/U.S. PCS (Tx = 1920–1980 MHz), (Rx = 2110–2170 MHz)

Part Number	Description	Typical PAE (%)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
 SKY77437	FEM for WCDMA/HSDPA/HSUPA	25	24	3.2–4.2	20-pin MCM 4 x 7 x 1.2
 SKY77433	FEM for WCDMA/HSDPA/HSUPA	–	–	3.5–4.45	16-pin MCM 4 x 7 x 1.2

Front-End Module for WCDMA/CDMA Handsets—Band 2/U.S. PCS (Tx = 1850–1910 MHz), (Rx = 1930–1990 MHz)


Part Number	Description	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
 SKY77414	FEM for WCDMA	23	3.20–4.20	22-pin MCM 5 x 8 x 1.5

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INTERA™ FRONT-END MODULES





Front-End Module for WCDMA/CDMA Handsets—Band 4/U.S. AWS (Tx = 1710–1770 MHz), (Rx = 2110–2170 MHz)

Part Number	Description	Supply Voltage (V)	Package (mm)
 SKY77435	FEM for WCDMA/HSDPA/HSUPA	3.4–4.45	16-pin MCM 4 x 7 x 1.2

Front-End Module for WCDMA/CDMA Handsets—Band 5 & 6/Cellular (Tx = 824–849 MHz), (Rx = 869–894 MHz)

Part Number	Description	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
 SKY77436	FEM for WCDMA/HSDPA/HSUPA	–	3.4–4.45	16-pin MCM 4 x 7 x 1.2
 SKY77413	FEM for WCDMA	25	3.2–4.2	22-pin MCM 5 x 8 x 1.5
 SKY77425	Tx FEM for CDMA	26	3.4–4.2	22-pin MCM 4 x 7 x 1.1

Front-End Modules for GSM/EDGE/GPRS

Part Number	Frequency (MHz)	Description	Typical Output Power (dBm) GSM/EDGE	Typical PAE (%) GSM	Supply Voltage (V)	Package (mm)
 SKY77526	824–849 880–915 1710–1785 1850–1910	Tx FEM for Quad-Band GSM/EDGE GSM850 GSM900 DCS1800 PCS1900	33.5 33.5 33.3 34.5	41 43 38 40	2.9–4.8	34-pin MCM 8 x 8 x 1.2
 SKY77521	824–849 880–915 1710–1785 1850–1910	Tx–Rx FEM for Quad-Band GSM/GPRS/EDGE Triple WCDMA Band Antenna Switch Support GSM850 GSM900 DCS1800 PCS1900	33.5 33.5 31.0 31.0	40 40 34 34	3.0–4.6	30-pin MCM 7 x 6 x 1.0
 SKY77520	824–849 880–915 1710–1785 1850–1910	Tx–Rx FEM for Quad-Band GSM EDGE w/ Integrated Coupler—Helios™ System 2.5 GSM850 GSM900 DCS1800 PCS1900	33.5 33.5 30.5 32.5	45 45 38 38	2.8–4.6	28-pin MCM 8 x 8 x 1.5
 SKY77519	824–849 880–915 1710–1785 1850–1910	Tx–Rx FEM for Quad-Band GSM GPRS EDGE— Antenna Switch Support for UMTS (WCDMA) Band 1 GSM850 GSM900 DCS1800 PCS1900	33.5/31.5 33.5/31.5 31.0/30.5 31.0/30.5	40/TBD 40/TBD 35/20 35/20	2.9–4.6	28-pin MCM 6 x 6 x 1.1

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INTERA™ FRONT-END MODULES
 Front-End Modules for GSM/GPRS (Continued)

Part Number	Frequency (MHz)	Description	Typical Output Power (dBm) GSM	Typical PAE (%)	Supply Voltage (V)	Package (mm)
SKY77531	824-849	Tx-Rx iPACT™ FEM for Quad-Band GSM/GPRS GSM850	33.7	48	2.9-4.8	30-pin MCM 6 x 8 x 1.2
	880-915	GSM900	33.7	48		
	1710-1785	DCS1800	32.0	41		
	1850-1910	PCS1900	32.0	41		
SKY77518	880-915	Tx-Rx iPACT™ FEM for Dual-Band GSM/GPRS GSM900	33.7	46	2.7-5.5	20-pin MCM 6 x 8 x 1.2
	1710-1785	DCS1800	32.0	41		
SKY77517	824-849	Tx-Rx iPACT™ FEM for Dual-Band GSM/GPRS GSM850	33.7	46	2.7-5.5	20-pin MCM 6 x 8 x 1.2
	1850-1910	PCS1900	32.0	41		

Front-End Modules for WLAN


Part Number	Frequency (GHz)	Description	802.11 WLAN Standard	Typ. P _{OUT} @ 2.5% EVM (dBm)	Typ. Current @ V _{CC} = 3.3 V (mA)	Typ. Tx Gain (dB)	Architecture	Antenna Ports	Package (mm)
SKY65225-11	2.4-2.5	WLAN 802.11n 2 x 2 MIMO Front-End Module	b,g,n	19	190	24	Two Full Dual-Band Tx/Rx Chains	2	MCM 10 x 14 x 0.9
	4.9-5.85		a,n	16	180	25			
SKY65227-11	2.4-2.5	WLAN 802.11n 2 x 2 MIMO Single-Band Front-End Module	b,g,n	19	190	25	Two Full 2 GHz Tx/Rx Chains	2	MCM 10 x 14 x 0.9
SKY65228-11	4.9-5.85	WLAN 802.11n 2 x 2 MIMO Single-Band Front-End Module	a,n	16	180	25	Two Full 5 GHz Tx/Rx Chains	2	MCM 10 x 14 x 0.9
SKY65230-11	2.4-2.5	WLAN 802.11n 2 x 2 MIMO Front-End Module with 3 Antenna Ports	b,g,n	19	190	25	Two Full Dual-Band Tx/Rx Chains	3	MCM 10 x 14 x 0.9
	4.9-5.85		a,n	16	180	24			
SKY65241-11	2.4-2.5	WLAN 801.11a,b,g Dual-Band Front-End Module	a	16	190	25	One Complete Dual-Band Tx/Rx Chain	1	Laminate 5 x 5 x 0.9
	4.9-5.85		b	21	210	26			
			g	18	180	26			
SKY65243-11	2.4-2.5	WLAN 801.11a,b,g Dual-Band Front-End Module	a	16	190	25	One Complete Dual-Band Tx/Rx Chain	2	Laminate 5 x 5 x 0.9
	4.9-5.85		b	21	210	26			
			g	18	180	26			
SKY65249-11	2.4-2.5	WLAN 802.11b,g Front-End Module	b	21	210	26	One single-band Tx/Rx Chain	2	Laminate 4 x 4 x 0.9
			g	18	180	26			
SKY65256-11	2.4-2.5	WLAN 801.11a,b,g Dual-Band Front-End Module	a	16	190	25	One Complete Dual-Band Tx/Rx Chain	1	Laminate 5 x 6 x 0.9
	4.9-5.85		b	21	210	26			
			g	18	180	26			

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TD-SCDMA POWER AMPLIFIERS

PA Modules for TD-SCDMA Handsets







Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
SKY77161 	2010–2025	PAM for TD-SCDMA	41	27.5	3.2–4.2	10-pin MCM 4 x 4 x 1.2

WCDMA/CDMA POWER AMPLIFIERS

PA Modules for WCDMA/CDMA Handsets—Band 1

Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
 SKY77185	1920–1980	PAM for WCDMA/HSDPA	20.0	20.0	3.4–6.0	10-pin MCM 3 x 3
 SKY77182	1920–1980	PAM for WCDMA/HSDPA	39.0	27–33	3.1–4.6	8-pin MCM 3 x 3 x 1.1
SKY77174 	1920–1980	PAM for WCDMA/HSDPA	38.0	28.5	3.1–4.6	10-pin MCM 4 x 4 x 1.1
SKY77173 	1920–1980	AutoSmart™ PAM for WCDMA	41.0	28.0	3.2–4.2	8-pin MCM 3 x 3 x 1.15
 SKY77170	1920–1980	PAM for WCDMA/HSDPA	37.0	28.0	3.2–4.2	10-pin MCM 4 x 4 x 1.15

PA Modules for WCDMA/CDMA Handsets—Band 2/U.S. PCS






Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
SKY77418 	1850–1910	LIPA Module CDMA/PCS	38.0	28.0	3.2–4.2	16-pin MCM 4 x 4 x 1.5
SKY77178 	1850–1910	AutoSmart™ PAM for WCDMA HSDPA	40.0 37.5	26.5 27.5	3.2–4.2	8-pin MCM 3 x 3 x 1.2
 SKY77176	1850–1910	PAM for CDMA/ PCS	40.0	28.0	3.2–4.2	12-pin MCM 3 x 5 x 1.0
SKY77164 	1850–1910	AutoSmart™ PAM for CDMA/PCS	40.0	28.0	3.2–4.2	8-pin MCM 3 x 3 x 1.2
SKY77149 	1850–1910	System Smart® PAM for CDMA PCS	40.0	28.0	3.2–4.2	8-pin MCM 3 x 3 x 1.2
CX77112 	1850–1910	PAM for CDMA PCS	40.0	28.5	3.2–4.2	10-pin MCM 4 x 4 x 1.5

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WCDMA/CDMA POWER AMPLIFIERS

PA Modules for CDMA Handsets—Bands 5 and 6/Cellular

Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
SKY77179 	824–849	AutoSmart™ PAM for WCDMA HSDPA	41.0 38.0	28.0 28.0	3.2–4.2	8-pin MCM 3 x 3 x 1.2
SKY77175 	824–849 1850–1910	Dual-Band PAM for WCDMA	40.0 40.0	30.2 29.1	3.1–4.6	14-pin MCM 3 x 6 x 1.0
SKY77163-12 	824–849	AutoSmart™ PAM for CDMA AMPS	40.0 55.0	28.0 27.0	3.2–4.2	8-pin MCM 3 x 3 x 1.2
SKY77162 	824–849	System Smart® PAM for CDMA AMPS	40.5 55.0	28.5 28.5	3.2–4.2	8-pin MCM 3 x 3 x 1.2
CX77105 	824–849	PAM for Dual-Mode CDMA AMPS	40.0 55.0	29.0 29.0	3.2–4.2	10-pin MCM 4 x 4 x 1.5

PA Modules for CDMA Handsets—Other Bands

Part Number	Frequency (MHz)	Description	Typical PAE (%)	Typical Gain (dB)	Supply Voltage (V)	Package (mm)
SKY77177 	1710–1755	AutoSmart™ PAM for WCDMA	40.0	28.0	3.2–4.2	8-pin MCM 3 x 3 x 1.2
SKY77155 	1750–1780 1710–1785	System Smart® PAM for CDMA PCS WCDMA	40.0 38.0	29.0 29.0	3.2–4.2	8-pin MCM 3 x 3 x 1.2
CX77144 	887–925	PAM for J-CDMA	40.0	27.5	3.2–4.2	10-pin MCM 4 x 4 x 1.5
 SKY77166	450–460	PAM for CDMA2000	37.0	29.0	3.1–4.6	10-pad MCM 4 x 4 x 1.5
 CX77181	880–915	PAM for WCDMA/HSDPA	36.0	30.0	3.1–4.6	8-pin MCM 3 x 3 x 1.1

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LINEAR PRODUCTS

Amplifiers	20
Attenuators	22
Diodes	25
Directional Couplers/Detectors	63
Filters	64
Hybrids	64
Infrastructure RF Subsystems	65
Intera™ Front-End Modules (WLAN)	67
MIS Silicon Chip Capacitors	68
Mixers/Demodulators	68
Modulators	70
Phase Shifters	70
PLLs/Synthesizers/VCOs	71
Power Dividers/Combiners	72
Receivers	72
Switches	73
Technical Ceramics	74

These products are produced by Trans-Tech
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Tin/lead (SnPb) packaging is not recommended for new designs.

AMPLIFIERS

Wireless Infrastructure High Gain Linear PA Modules


Part Number	Frequency (MHz)	Voltage (V)	P _{OUT} (dBm)	Gain (dB)	Test Frequency	Quiescent Current (mA)	NF (dB)	OIP3 (dBm)	Package (mm)
 SKY65120	2110–2170	5	33.5	24.6	2140	447	8.4	48	20-pin MCM 6 x 6
 SKY65124	1960–1990	5	25.0	24	1960	550	6.0	45	20-pin MCM 6 x 6

Wireless Infrastructure Ultralinear PA Drivers

Part Number	Frequency (MHz)	Test Frequency (MHz)	Gain Typ. (dB)	V _{CC} (V)	P ₁ dB (dBm)	Package (mm)
 SKY65004-21	250–2700	1960	16 @ 5 V	3 or 5	25 @ 5 V	3-pin MCM 4 x 4
 SKY65008-21	250–2700	1960	20	3.3	21	3-pin MCM 4 x 4
SKY65009-70LF	250–2500	1960	12 @ 5 V	3 or 5	27 @ 5 V	4-pin SOT-89
 SKY65028-70LF	250–2700	1960	16 @ 5 V	3 or 5	25 @ 5 V	4-pin SOT-89

Wireless Infrastructure PA/PA Driver Amplifiers






Part Number	Frequency (GHz)	Gain Typ. (dB)	Quiescent Current Typ. (mA)	V _{CC} (V)	OIP3 (dBm)	P ₁ dB (dBm)	PAE (%) @ P ₁ dB	Package (mm)
SKY65112-84LF	0.4–2.3	18 @ 940 MHz	260	5	39	27	22	SOIC-8 Exposed Paddle
SKY65113-84LF	0.4–2.3	20 @ 940 MHz	450	5	40	30	39	SOIC-8 Exposed Paddle

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AMPLIFIERS

Power Amplifiers for WLAN and ISM

Part Number	Frequency Range (GHz)	Gain Typ. (dB)	P ₁ dB (dBm)	OIP3 (dBm)	PAE (%)	V _{CC} (V)	Quiescent Current Typ. (mA)	Package (mm)
SKY65006 	2.40–2.50	27.5	23.9	–	–	3.3	50	QFN-16 3 x 3
SKY65131 	2.40–2.50	26.0	28.0	–	38	3.3	150	MCM-16 4 x 4
SKY65132 	2.40–2.50	33.0	30.0	–	29	3.3	330	MCM-20 6 x 6
SKY65135-21 	2.40–2.50	33.0	33.0	42	34	5.0	400	MCM-20 6 x 6
SKY65116 	0.39–0.50	35.0	32.5	43	42	3.6	330	MCM-12 8 x 8
SKY65111-348LF	0.60–1.10	40.0	29.5	36	50	3.5	250	QFN-16 3 x 3
SKY65146	0.806–0.849	38.7	35.0	37	50	3.5	329	MCM-28 10 x 14

General-Purpose Amplifiers

Part Number	Frequency Range (GHz)	Test Frequency (MHz)	Gain Typ. (dB)	P ₁ dB (dBm)	OIP3 (dBm)	Operating Current Typ. (mA)	Noise Figure Typ. (dB)	Package (mm)
 SKY65013-70LF	LF-7	2	12.5	12.5	29	40	5.5	SOT-89
 SKY65014-70LF	LF-6	2	16.0	18.0	36	70	4.8	SOT-89
 SKY65015-70LF	LF-6	2	18.0	17.0	35	70	4.2	SOT-89
 SKY65016-70LF	LF-3	2	20.0	14.0	27	40	4.8	SOT-89
 SKY65017-70LF	LF-6	2	20.0	20.0	35	100	4.5	SOT-89
SKY65013-92LF	LF-12	2	12.5	12.5	29	40	5.8	SC-88
SKY65014-92LF	LF-9	2	15.0	18.0	36	70	5.4	SC-88
SKY65015-92LF	LF-6	2	18.0	18.0	35	70	4.8	SC-88
SKY65016-92LF	LF-3	2	20.0	14.0	27	40	5.4	SC-88
SKY65013-214LF	LF-6	2	11.5	12.5	29	40	5.4	Plastic Micro-X
SKY65014-214LF	LF-6	2	13.5	18.0	36	70	4.6	Plastic Micro-X
SKY65015-214LF	LF-6	2	16.0	18.0	24	70	5.2	Plastic Micro-X
SKY65016-214LF	LF-3	2	19.0	14.0	20	40	6.5	Plastic Micro-X

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ATTENUATORS

Low Frequency 6 GHz Plastic Packaged Digital Attenuators

Part Number	Frequency ⁽¹⁾ (GHz)	Control Bits/ Interface Parallel/Serial	Attenuation Range (dB)	Typ. P ₁ dB (dBm)	LSB Attenuation (dB)	Typ. IP3 (dBm)	Typ. IL (dB)	Package (mm)
AA103-72LF	LF-2.5	1/P	10.0	20	10.0	41	0.3-0.4	SOT-5
AA116-72LF	LF-2.0	1/P	15.0	20	15.0	41	0.35-0.4	SOT-5
AA104-73LF	LF-2.5	1/P	32.0	21	32.0	41	0.8-1.0	SOT-6
SKY12324-73LF	0.5-3.0	2/P	12.0	30	4.0	43	0.9-1.3	SOT-6
SKY12325-350LF	0.5-6.0	3/P	7.0	27	1.0	47	0.7-1.3	QFN-16 3 x 3
AA100-59LF	0.75-2.0	3/P	28.0	20	4.0	32	1.8	MSOP-8
AA105-86LF	0.5-3.0	4/P	15.0	24	1.0	49	1.5-2.7	MSOP-10
AA210-25LF	LF-2.0	4/P	15.0	28	1.0	48	0.9-2.1	SOIC-16
AA226-87LF	0.5-2.5	4/P	15.0	25	1.0	49	1.3-2.3	TSSOP-16
AA264-87LF	0.5-2.0	4/P	30.0	15	2.0	36	1.6-1.8	TSSOP-16
AA102-80LF	0.5-2.5	5/P	15.5	24	0.5	42	1.9-3.2	SSOP-16
AA106-86LF	0.5-2.0	5/P	15.5	21	0.5	41	2.0-3.0	MSOP-10
AA107-310LF	LF-2.0	5/S	15.5	24	0.5	44	1.4-1.72	QFN 5 x 5
SKY12322-86LF	0.5-4.0	5/P	15.5	27	0.5	45	1.4-3.0	MSOP-10
SKY12328-350LF	0.5-4.0	5/P	15.5	30	0.5	-	1.1-2.3	QFN-16 3 x 3
AA101-80LF	0.5-2.5	5/P	31.0	21	1.0	41	2.0-2.9	SSOP-16
AA109-310LF	0.5-2.5	5/S	31.0	21	1.0	41	2.0-3.1	QFN 5x5
AA110-85LF	DC-2.0	5/P	31.0	22	1.0	40	1.4-2.2	SSOP-20
AA117-85LF	DC-2.0	5/P	31.0	22	1.0	40	1.4-2.2	SSOP-20
AA260-85LF	LF-2.0	5/P	31.0	25	1.0	42	1.4-2.0	SSOP-20
SKY12323-303LF	0.5-3.0	5/P	31.0	30	1.0	48	1.4-2.3	MSOP-10EP
AA113-310LF	LF-1.0	6/P	31.5	29	0.5	48	1.5-1.8	QFN-32 5 x 5
SKY12332-310LF	LF-1.0	6/P	31.5	29	0.5	48	1.5-1.8	QFN-32 5 x 5

1. LF = low frequency 300 kHz.

Innovation to Go™ Select products (indicated in blue/bold) are now available for purchase online.

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ATTENUATORS

DC–6 GHz Plastic Packaged Variable Voltage Attenuators—FET-Based

Part Number	Frequency (GHz)	Description	Insertion Loss Range (dB) Typ.	Attenuation Range (dB) Typ.	IP3 > 0.5 GHz (dBm) Typ.	Package (mm)
AV103-12LF	0.5–2.5	Single, 5 V CTL High Speed	2.5–3.2	35	12	SOIC-8
AV104-12LF	0.5–2.5	Single, 5 V CTL High IP3	2.5–3.5	25	20	SOIC-8
AV105-12LF	0.5–2.5	Single, 5 V CTL	2.7–3.5	35	15	SOIC-8
AV109-73LF	0.8–1.0	Single, 3 V CTL Rev. Transfer	3.3–3.5	32	15	SOT-6
AV110-73LF	1.7–2.5	Single, 3 V CTL Rev. Transfer	3.5–3.8	32–27	12	SOT-6
SKY12146-321LF	3.2–3.8	20 dB Single CTL	1.5–1.6	32–20	20	QFN-12 3 x 3 Surface Mount

DC–6 GHz Plastic Packaged Variable Voltage Attenuators—PIN Diode-Based

Part Number	Frequency (GHz)	Description	Insertion Loss Range (dB) Typ.	Attenuation Range (dB) Typ.	IP3 > 0.5 GHz (dBm) Typ.	Package
AV101-12LF	0.8–1.0	HIP3™ Variable Attenuator	1	20	50	SOIC-8
AV102-12LF	1.7–2.0	HIP3™ Variable Attenuator	1	20	50	SOIC-8
AV111-12LF	0.8–1.0	HIP3™ Variable Attenuator	1	30	40	SOIC-8
AV113-12LF	2.1–2.3	HIP3™ Variable Attenuator	1	21	40	SOIC-8
















Part Number	Frequency (MHz)	Description	Insertion Loss Range (dB) Max.	Attenuation Range @ 10 V (dB) Min.	Attenuation Range @ 12 V (dB) Min.	IP3 (dBm) Typ.	Control Voltage Range (V) Typ.	Package
SKY12143-315 	869–894 925–960	Voltage Variable Attenuator	1.5	18–22	23	43	0–12	LGA Surface Mount
SKY12144-315 	1805–1870 1930–1990	Voltage Variable Attenuator	1.5	18–22	23	32	0–12	LGA Surface Mount
SKY12145-315 	2110–2170	Voltage Variable Attenuator	1.5	18–22	23	43	0–12	LGA Surface Mount

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ATTENUATORS

DC–40 GHz Fixed Attenuator Pads

Part Number	Nominal Attenuation (dB)	Attenuation Tolerance @ DC (dB)	Attenuation Flatness		
			DC–12 GHz (dB)	DC–26.5 GHz (dB)	DC–40 GHz (dB)
 ATN3580-01	1	±0.15	±0.2	±0.50	±1
 ATN3580-02	2	±0.15	±0.2	±0.50	±1
 ATN3580-03	3	±0.25	±0.2	±0.50	±1
 ATN3580-04	4	±0.25	±0.2	±0.50	±1
 ATN3580-05	5	±0.25	±0.2	±0.50	±1
 ATN3580-06	6	±0.25	±0.4	±0.60	±1
 ATN3580-07	7	±0.25	±0.4	±0.60	±1
 ATN3580-08	8	±0.35	±0.4	±0.60	±1
 ATN3580-09	9	±0.35	±0.4	±0.60	±1
 ATN3580-10	10	±0.35	±0.4	±0.60	±1
 ATN3580-12	12	±0.50	±0.4	±0.60	±1
 ATN3580-15	15	±0.50	±0.4	±0.60	±1
 ATN3580-20	20	±1.10	±1.0	±2.00	±4
 ATN3580-30	30	±1.60	±1.0	±2.00	±4
 ATN3580-40	40	±1.60	±1.0	±2.00	±4



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LIMITER DIODES

Plastic Packaged Silicon Limiter Diodes



Part Number	V_B $I_R = 10 \mu A$ (V)	I Region Thickness (μm) Nominal	C_T (pF) 0 V, F = 1 MHz	C_T (pF) 0 V F = 1 GHz	R_S $I_F = 10$ mA F = 100 MHz (Ω)	Carrier Lifetime T_L (ns) $I_F = 10$ mA	Package
SMP1330 Series	20–50	3	0.7 Typ., 1.0 Max.	0.7 Typ.	1.25 Typ., 1.5 Max.	4.0 Typ.	SOT-23 Series Pair

	
Series Pair SOT-23	Low Inductance SOT-23
SMP1330-005LF Marking: RQ2	SMP1330-007LF Marking: RQB

Silicon Limiter Diode Chips

Part Number	V_B @ 10 μA (V)	Nominal Basewidth (μm)	Typ. C_J @ 0 V (pF)	Max. C_J @ 6 V (pF)	Max. R_S @ 10 mA (Ω)	Max. T_I @ 10 mA (ns)	Thermal Impedance	
							Max. Average (C/W)	Typ. 1 μs Pulse (C/W)
 CLA4601-000	15–30	1.0	0.12	0.10	2.5	5	120	15
 CLA4602-000	15–30	1.0	0.20	0.15	2.0	5	80	10
 CLA4603-000	20–45	1.5	0.20	0.15	2.0	5	100	10
 CLA4604-000	30–60	2.0	0.12	0.10	2.5	7	100	10
 CLA4605-000	30–60	2.0	0.20	0.15	2.0	7	70	7.0
 CLA4606-000	45–75	2.5	0.20	0.15	2.0	10	80	7.0
 CLA4607-000	120–180	7.0	0.20	0.15 @ 50 V	2.0	50	40	1.2
 CLA4608-000	120–180	7.0	0.80	0.5 @ 50 V	1.2	100	15	0.3

Hermetic Ceramic Packaged Silicon Limiter Diodes

































Part Number	V_B @ 10 μA (V)	Nominal I Region Thickness (μm)	Max. C_J @ 6V (pF)	Typ. T_I @ 10 mA (ns)	Typ. Input Power for 1 dB Loss (dB)	Max. Pulsed Input Power (dBm)	Max. CW Input Power (W)	Package
 CLA4605-108	30–60	2	0.28	7	12	50	4	Leadless Surface Mount
 CLA4607-108	120–180	7	0.33	50	20	60	6	Leadless Surface Mount

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 The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.

LIMITER DIODES







Hermetic Packaged Limiter Diodes

Hermetic Stripline 240	Hermetic Pill 203	Hermetic Pill 219	Hermetic Pill 210
 CLA4601-240	 CLA4601-203	 CLA4601-219	 CLA4601-210
 CLA4602-240	 CLA4602-203	 CLA4602-219	 CLA4602-210
 CLA4603-240	 CLA4603-203	 CLA4603-219	 CLA4603-210
 CLA4604-240	 CLA4604-203	 CLA4604-219	 CLA4604-210
 CLA4605-240	 CLA4605-203	 CLA4605-219	 CLA4605-210
 CLA4606-240	 CLA4606-203	 CLA4606-219	 CLA4606-210
 CLA4607-240	 CLA4607-203	 CLA4607-219	 CLA4607-210
 CLA4608-240	 CLA4608-203	 CLA4608-219	 CLA4608-210

PIN DIODES

Lowest Capacitance Switching PIN Diodes for High Isolation

Part Number	Min. V_B $I_R = 10 \mu A$ (V)	Max. C_T $V_R = 20 V$ $F = 1 MHz$ (pF)	Typ. V_F @ $I_F = 10 mA$ (V)	Typ. R_S $I_F = 1 mA$ $F = 100 MHz$ (Ω)	Max. R_S $I_F = 10 mA$ $F = 100 MHz$ (Ω)	Typical Carrier Lifetime $I_F = 10 mA$ (ns)
SMP1345 Series	50	0.2	0.89	3.5	2	100


				
Common Anode SOT-23	Common Cathode SOT-23	Series Pair SOT-23	Single SC-79⁽¹⁾	Ring LGA Lead (Pb)-Free
SMP1345-003LF Marking: RU9	SMP1345-004LF Marking: RU3	SMP1345-005LF Marking: RU2	SMP1345-079LF Marking: Cathode	SMP1345-518 Marking: 0 
		SC-70		
		SMP1345-075LF Marking: RU2		

1. A lower profile (< 0.65 mm) SC-79 package is available; please contact sales.

Hermetic Ceramic Packaged Lowest Capacitance Switching PIN Diodes for High Isolation

Part Number	Min. V_B @ 10 μA (V)	Nominal I Region (μm)	Max. C_T @ 10 V (pF)	Typ. V_F @ 10 mA (mV)	Max. R_S @ 1.0 mA (Ω)	Max. R_S @ 10 mA (Ω)	Typ. TI @ 10 mA (ns)	Package
SMP1345-108	50	10	0.285	850	3.5 Typ.	2	100	Leadless Surface Mount

Innovation to Go™ Select products (indicated in blue/bold) are now available for purchase online.








 Skyworks Green™ products are lead (Pb)-free, Restriction of Hazardous Substances (RoHS)-compliant, conform to the EIA/EICTA/JEITA Joint Industry Guide (JIG) Level A guidelines, and are free from antimony trioxide, and brominated flame retardants.

 The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.

PIN DIODES


Low Capacitance, Fast Switching PIN Diodes

Part Number	Min. V_B $I_R = 10 \mu A$ (V)	Max. C_T $V_R = 5 V$ $F = 1 MHz$ (pF)	Typ. V_F @ $I_F = 10 mA$ (V)	Typ. R_S $I_F = 1 mA$ $F = 100 MHz$ (Ω)	Max. R_S $I_F = 10 mA$ $F = 100 MHz$ (Ω)	Typical Carrier Lifetime $I_F = 10 mA$ (ns)
SMP1340 Series	50	0.3	0.88	1.7	1.2	100

					
Common Anode SOT-23	Common Cathode SOT-23	Series Pair SOT-23	Anti-Parallel Single SOD-323	Single SC-79⁽¹⁾	LGA Lead (Pb)-Free
SMP1340-003LF Marking: RS9	SMP1340-004LF Marking: RS3	SMP1340-005LF Marking: RS2	SMP1340-011LF Marking: RS	SMP1340-079LF Marking: Cathode	SMP1340-508 Marking: X 
	SC-70	SC-70			
	SMP1340-074LF Marking: RS3	SMP1340-075LF Marking: RS2			

1. A lower profile (< 0.65 mm) SC-79 package is available; please contact sales.

Hermetic Ceramic Packaged Low Capacitance, Fast Switching PIN Diodes

Part Number	Min. V_B @ 10 μA (V)	Nominal I Region (μm)	Typ. C_T @ 0 V (pF)	Max. C_T @ 10 V (pF)	Typ. V_F @ 10 mA (mV)	Max. R_S @ 1.0 mA (Ω)	Max. R_S @ 10 mA (Ω)	Typ. T_I @ 10 mA (ns)	Package
 SMP1340-108	50	7	0.26	0.325	880	1.7 Typ.	1.2	100	Leadless Surface Mount

Innovation to Go™ Select products (indicated in blue/bold) are now available for purchase online.









 Skyworks Green™ products are lead (Pb)-free, Restriction of Hazardous Substances (RoHS)-compliant, conform to the EIA/EICTA/JEITA Joint Industry Guide (JIG) Level A guidelines, and are free from antimony trioxide, and brominated flame retardants.

 The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.

PIN DIODES

Low Capacitance, Low Current Switching PIN Diodes










Part Number	Min. V_B $I_R = 10 \mu A$ (V)	Max. C_T $V_R = 30 V$ $F = 1 MHz$ (pF)	Typ. V_F @ $I_F = 10 mA$ (V)	Typ. R_S $I_F = 1 mA$ $F = 100 MHz$ (Ω)	Max. R_S $I_F = 10 mA$ $F = 100 MHz$ (Ω)	Typical Carrier Lifetime $I_F = 10 mA$ (ns)
SMP1320 Series	50	0.3	0.85	2	0.9	400

							
Single SOT-23	Common Anode SOT-23	Common Cathode SOT-23	Series Pair SOT-23	Low Inductance SOT-23	Single SOD-323	Ultralow Inductance SOT-143	Single SC-79⁽¹⁾
SMP1320-001LF Marking: RL1	SMP1320-003LF Marking: RL9	SMP1320-004LF Marking: RL3	SMP1320-005LF Marking: RL2	SMP1320-007LF Marking: RLB	SMP1320-011LF Marking: RL	SMP1320-017LF Marking: RLF	SMP1320-079LF Marking: Cathode
		SC-70	SC-70	SC-70			
		SMP1320-074LF Marking: RL3	SMP1320-075LF Marking: RL2	SMP1320-077LF Marking: RL8			

1. A lower profile (< 0.65 mm) SC-79 package is available; please contact sales.

Low Capacitance Switching PIN Diodes

Part Number	Min. V_B $I_R = 10 \mu A$ (V)	Max. C_T $V_R = 30 V$ $F = 1 MHz$ (pF)	Typ. V_F @ $I_F = 10 mA$ (V)	Typ. R_S $I_F = 1 mA$ $F = 100 MHz$ (Ω)	Max. R_S $I_F = 10 mA$ $F = 100 MHz$ (Ω)	Typical Carrier Lifetime $I_F = 10 mA$ (ns)
SMP1321 Series	100	0.25	0.85	3	2	400

							
Single SOT-23	Common Anode SOT-23	Common Cathode SOT-23	Series Pair SOT-23	Low Inductance SOT-23	Single SOD-323	Anti-Parallel Single SC-79⁽¹⁾	LGA Lead (Pb)-Free
SMP1321-001LF Marking: RM1	SMP1321-003LF Marking: RM9	SMP1321-004LF Marking: RM3	SMP1321-005LF Marking: RM2	SMP1321-007LF Marking: RMB	SMP1321-011LF Marking: RM	SMP1321-079LF Marking: Cathode	SMP1321-508 Marking: H 
	SC-70	SC-70	SC-70				
	SMP1321-073LF Marking: RM9	SMP1321-074LF Marking: RM3	SMP1321-075LF Marking: RM2				

1. A lower profile (< 0.65 mm) SC-79 package is available; please contact sales.









Innovation to Go™ Select products (indicated in blue/bold) are now available for purchase online.

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PIN DIODES

Lowest Series Resistance Switching PIN Diodes



Part Number	Min. V_B $I_R = 10 \mu A$ (V)	Max. C_T $V_R = 30 V$ $F = 1 MHz$ (pF)	Typ. V_F @ $I_F = 10 mA$ (V)	Max. R_S $I_F = 1 mA$ $F = 100 MHz$ (Ω)	Typ. R_S $I_F = 10 mA$ $F = 100 MHz$ (Ω)	Typical Carrier Lifetime $I_F = 10 mA$ (ns)
SMP1322 Series	50	1	0.825	1.5	0.5	400

							
Single SOT-23	Common Anode SOT-23	Common Cathode SOT-23	Series Pair SOT-23	Single SOD-323	T/R Switch SOT-143	Ultralow Inductance SOT-143	Single SC-79⁽¹⁾
SMP1322-001LF Marking: RN1	SMP1322-003LF Marking: RN9	SMP1322-004LF Marking: RN3	SMP1322-005LF Marking: RN2	SMP1322-011LF Marking: RN	SMP1322-016LF Marking: RN6	SMP1322-017LF Marking: RNF	SMP1322-079LF Marking: Cathode
		SC-70 SMP1322-074LF Marking: RN3					

1. A lower profile (< 0.65 mm) SC-79 package is available; please contact sales.

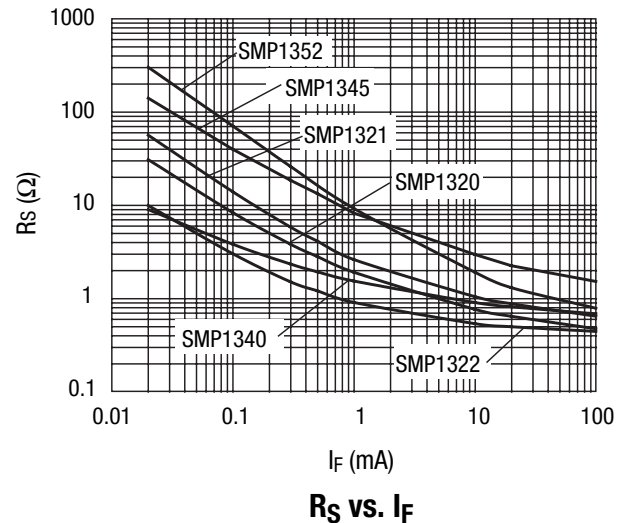
Large Signal Switching PIN Diodes

Part Number	Min. V_B $I_R = 10 \mu A$ (V)	Max. C_T $V_R = 20 V$ $F = 1 MHz$ (pF)	Typ. V_F @ $I_F = 10 mA$ (V)	Max. R_S $I_F = 1 mA$ $F = 100 MHz$ (Ω)	Max. R_S $I_F = 10 mA$ $F = 100 MHz$ (Ω)	Typical Carrier Lifetime $I_F = 10 mA$ (ns)
SMP1352 Series	200	0.35	0.8	15	2.8	1000

	
Single SOD-323	Single SC-79⁽¹⁾
SMP1352-011LF Marking: RR	SMP1352-079LF Marking: Cathode

1. A lower profile (< 0.65 mm) SC-79 package is available; please contact sales.

Typical Performance Characteristics




Innovation to Go™ Select products (indicated in blue/bold) are now available for purchase online.

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
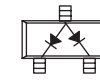




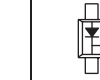

PIN DIODES

Hermetic Ceramic Packaged Large Signal Switching PIN Diodes

Part Number	Min. V_B @ 10 μ A (V)	Nominal I Region (μ m)	Max. C_T @ 20 V (pF)	Typ. V_F @ 10 mA (mV)	Max. R_S @ 1.0 mA (Ohms)	Max. R_S @ 10 mA (Ω)	Typ. TI @ 10 mA (ns)	Package
 SMP1352-108	200	50	0.425	825	8 Typ.	2.8	1000	Leadless Surface Mount


Low-Distortion Switch/Attenuator PIN Diodes

Part Number	Min. V_B $I_R = 10 \mu$ A (V)	Max. C_T $V_R = 30$ V $F = 1$ MHz (pF)	Typ. V_F @ $I_F = 10$ mA (V)	Max. R_S $I_F = 1$ mA $F = 100$ MHz (Ω)	Max. R_S $I_F = 10$ mA $F = 100$ MHz (Ω)	Max. R_S $I_F = 100$ mA $F = 100$ MHz (Ω)	Typ. Carrier Lifetime $I_F = 10$ mA (ns)
SMP1302 Series	200	0.3	0.8	20	3	1.5	700

							
Single SOT-23	Common Anode SOT-23	Common Cathode SOT-23	Series Pair SOT-23	Single SOD-323	Ultralow Inductance SOT-143	PI SOT-5	Single SC-79⁽¹⁾
SMP1302-001LF Marking: RF1	SMP1302-003LF Marking: RF9	SMP1302-004LF Marking: RF3	SMP1302-005LF Marking: RF2	SMP1302-011LF Marking: RF	SMP1302-017LF Marking: RFF	SMP1302-027LF Marking: RFM	SMP1302-079LF Marking: Cathode
		SC-70	SC-70				
		SMP1302-074LF Marking: RF3	SMP1302-075LF Marking: RF2				

1. A lower profile (< 0.65 mm) SC-79 package is available; please contact sales.

Hermetic Ceramic Packaged Low-Distortion Attenuator PIN Diodes

Part Number	Min. V_B @ 10 μ A (V)	Nominal I Region (μ m)	Max. C_T @ 30 V (pF)	Typ. V_F @ 10 mA (mV)	Max. R_S @ 1.0 mA (Ω)	Max. R_S @ 10 mA (Ω)	Typ. TI @ 10 mA (ns)	Package
 SMP1302-108	200	50	0.36	800	20	3	700	Leadless Surface Mount

Innovation to Go™ Select products (indicated in blue/bold) are now available for purchase online.








 Skyworks Green™ products are lead (Pb)-free, Restriction of Hazardous Substances (RoHS)-compliant, conform to the EIA/EICTA/JEITA Joint Industry Guide (JIG) Level A guidelines, and are free from antimony trioxide, and brominated flame retardants.

 The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.


PIN DIODES

Low-Distortion Attenuator PIN Diodes

Part Number	Min. V_B $I_R = 10 \mu A$ (V)	Max. C_T $V_R = 30 V$ $F = 1 MHz$ (pF)	Typ. V_F @ $I_F = 10 mA$ (V)	Max. R_S $I_F = 1 mA$ $F = 100 MHz$ (Ω)	Max. R_S $I_F = 10 mA$ $F = 100 MHz$ (Ω)	Max. R_S $I_F = 100 mA$ $F = 100 MHz$ (Ω)	Typ. Carrier Lifetime $I_F = 10 mA$ (ns)
SMP1304 Series	200	0.3	0.8	50	7	2	1000

						
Single SOT-23	Common Cathode SOT-23	Series Pair SOT-23	Low Inductance SOT-23	Single SOD-323	PI SOT-143	PI SOT-5
SMP1304-001LF Marking: RG1	SMP1304-004LF Marking: RG3	SMP1304-005LF Marking: RG2	SMP1304-007LF Marking: RGB	SMP1304-011LF Marking: RG	SMP1304-019LF Marking: RGJ	SMP1304-027LF Marking: RGM

Hermetic Ceramic Packaged Low-Distortion Attenuator PIN Diodes

Part Number	Min. V_B @ $10 \mu A$ (V)	Nominal I Region (μm)	Max. C_T @ $30 V$ (pF)	Typ. V_F @ $10 mA$ (mV)	Max. R_S @ $1.0 mA$ (Ω)	Max. R_S @ $10 mA$ (Ω)	Typ. TI @ $10 mA$ (ns)	Package
 SMP1304-108	200	100	0.36	800	50	7	1000	Leadless Surface Mount

Innovation to Go™ Select products (indicated in blue/bold) are now available for purchase online.








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 The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.

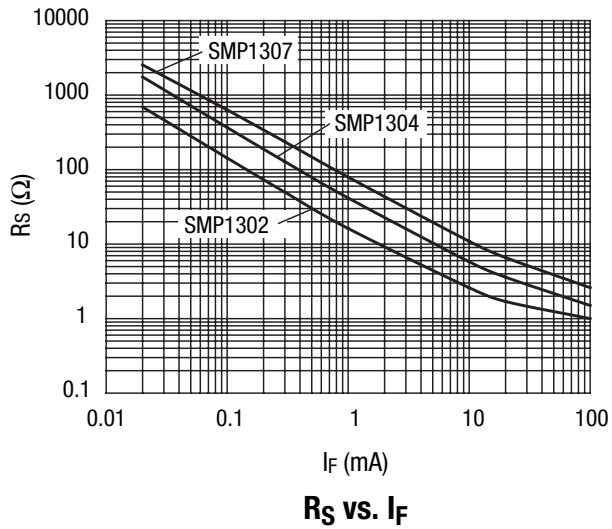
PIN DIODES

Lowest Distortion, High IP3 Attenuator PIN Diodes

Part Number	Min. V_B $I_R = 10 \mu A$ (V)	Max. C_T $V_R = 30 V$ $F = 1 MHz$ (pF)	Typ. V_F @ $I_F = 10 mA$ (V)	Max. R_S $I_F = 1 mA$ $F = 100 MHz$ (Ω)	Max. R_S $I_F = 10 mA$ $F = 100 MHz$ (Ω)	Max. R_S $I_F = 100 mA$ $F = 100 MHz$ (Ω)	Typ. Carrier Lifetime $I_F = 10 mA$ (ns)
SMP1307 Series	200	0.30	0.85	100	15	3.0	1500

						
Single SOT-23	Common Anode SOT-23	Common Cathode SOT-23	Series Pair SOT-23	Reverse Series Pair SOT-23	Single SOD-323	PI SOT-5
SMP1307-001LF Marking: RJ1	SMP1307-003LF Marking: RJ9	SMP1307-004LF Marking: RJ3	SMP1307-005LF Marking: RJ2	SMP1307-006LF Marking: RJ8	SMP1307-011LF Marking: RJ	SMP1307-027LF Marking: RJM

Typical Performance Characteristics



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 The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.

PIN DIODES

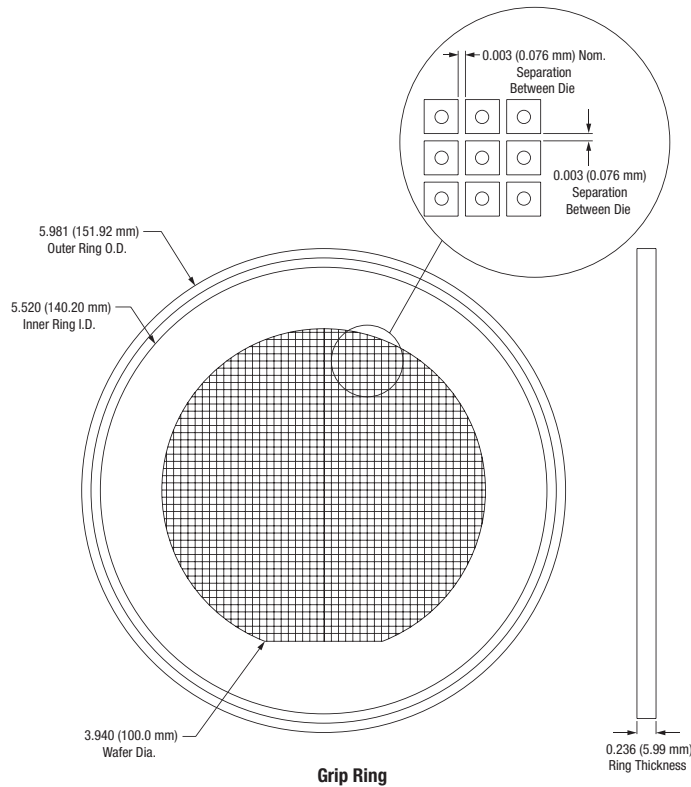
PIN Diode Chips Supplied On Film Frame for Switching Applications

Part Number	V_B @ 10 μ A (V)	Typ. C_J @ 0 V (pF)	Max. C_J @ 30 V (pF)	Typ. V_F @ 10 mA (mV)	Max. R_S @ 1 mA (Ω)	Max. R_S @ 10 mA (Ω)	Max. TI @ 10 mA (ns)	Nominal Chip Size (mils)	Nominal Contact Diameter (mils)
SMP1320-099	50	0.23	0.175	850	2 Typ	0.9	400	13.5	3.0
SMP1321-099	100	0.18	0.15	860	2	5 Typ.	400	13.5	3.0
SMP1322-099	50	1.10	0.85	825	1.5	0.45 Typ.	400	13.5	7.5
SMP1340-099	50	0.20	0.15 @ 10 V	880	1.7 Typ	1.2	100	10.1	3.0
SMP1353-099	100	0.35	0.15 @ 10 V	825	15	2.8	1000	10.1	8.0

PIN Diode Chips Supplied On Film Frame for Attenuator Applications

Part Number	V_B @ 10 μ A (V)	Typ. C_J @ 0 V (pF)	Max. C_J @ 30 V (pF)	Typ. V_F @ 10 mA (mV)	Max. R_S @ 1 mA (Ω)	Max. R_S @ 10 mA (Ω)	Max. TI @ 10 mA (ns)	Nominal Chip Size (mils)	Nominal Contact Diameter (mils)
SMP1302-099	200	0.27	0.15	800	20	3	700	13.5	8.5
SMP1304-099	200	0.18	0.15	800	50	7	1000	13.5	8.5

The above PIN diode chips are processed on 100 mm silicon wafers, 100% DC tested, sawn and shipped on 6" film frame hoops. Electrical rejects are identified with black ink.










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PIN DIODES

































General-Purpose PIN Diode Chips for Switching Applications

Part Number	V_B @ 10 μ A (V)	Nominal I Region (μ m)	Typ. C_J @ 0 V (pF)	Max. C_J @ 50 V (pF)	Max. R_S @ 10 mA (Ω)	Max. TI @ 10 mA (ns)	Max. Thermal Resistance (C/W)
 APD0505-000	50	5	0.10	0.05	2.0	20	100
 APD0510-000	50	5	0.20	0.10	1.5	40	80
 APD0520-000	50	5	0.25	0.20	1.0	50	80
 APD0805-000	100	8	0.10	0.05	2.0	100	80
 APD0810-000	100	8	0.15	0.10	1.5	160	60
 APD1510-000	200	15	0.20	0.10	2.0	300	60
 APD1520-000	100	15	0.25	0.20	1.2	900	30


General-Purpose PIN Diode Chip for Attenuator Applications

Part Number	V_B @ 10 μ A (V)	Nominal I Region (μ m)	Typ. C_J @ 0 V (pF)	Max. C_J @ 50 V (pF)	Max. R_S @ 10 mA (Ω)	Max. TI @ 10 mA (ns)	Max. Thermal Resistance (C/W)
 APD2220-000	100	50	0.2	0.2	4	700	80


Hermetic Packaged General-Purpose PIN Diodes for Switching and Attenuator Applications


Hermetic Stripline 240	Hermetic Pill 203	Hermetic Pill 210	Hermetic Pill 219
 APD0505-240	 APD0505-203	 APD0505-210	 APD0505-219
 APD0510-240	 APD0510-203	 APD0510-210	 APD0510-219
 APD0520-240	 APD0520-203	 APD0520-210	 APD0520-219
 APD0805-240	 APD0805-203	 APD0805-210	 APD0805-219
 APD0810-240	 APD0810-203	 APD0810-210	 APD0810-219
 APD1510-240	 APD1510-203	 APD1510-210	 APD1510-219
 APD1520-240	 APD1520-203	 APD1520-210	 APD1520-219
 APD2220-240	 APD2220-203	 APD2220-210	 APD2220-219

Lowest Capacitance, Very Fast Switching Mesa Beam-Lead PIN Diodes for Applications up to 30 GHz

Part Number	V_B @ 10 μ A (V)	Max. C_J @ 10 V (pF)	Max. R_S @ 10 mA (Ω)	Max. TI @ 10 mA (ns)
 DSM8100-000	60	0.025	3.5	25

Low Capacitance, Low Distortion Planar Beam-Lead PIN Diodes for Switching Applications up to 30 GHz

Part Number	V_B @ 10 μ A (V)	Max. C_J @ 50 V (pF)	Max. R_S @ 10 mA (Ω)	Max. TI @ 10 mA (ns)
 DSG9500-000	100	0.025	4.0 @ 50 mA	250

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







 The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.

SCHOTTKY DIODES

General-Purpose Plastic Packaged Schottky Diodes



Part Number	Min. V_B $I_R = 10 \mu A$ (V)	Typ. I_R $V_R = 1 V$ (nA)	Max. V_F $I_F = 1 mA$ (mV)	Max. V_F @ Spec. I_F (mV)	Max. C_T $V_R = 0 V$ (pF)	Typ. R_T $I_F = 10 mA$ (Ω)
SMS3922 Series	8	100 Max.	340	450 @ 10 mA	1.03	7
SMS3923 Series	20	500 @ 15 V Max.	370	1000 @ 35 mA	1.23	11
SMS3924 Series	70	200 @ 50 V Max.	550	1000 @ 15 mA	1.83	7
SMS3925-079LF	40	–	670	–	0.60	7

Delta V_F for pairs and quads is 10 mV maximum at 1 mA.
Breakdown voltage and reverse leakage cannot be measured directly on ring configurations.


							
Single SC-79 ⁽¹⁾	Single SOD-323	Single SOT-23	Common Cathode SOT-23	Series Pair SOT-23	Unconnected Pair SOT-143	Dual Series Pair SC-88	Unconnected Pair LGA Lead (Pb)-Free
SMS3922-079LF Marking: Cathode	SMS3922-011LF Marking: XA	SMS3922-001LF Marking: XA1	SMS3922-004LF Marking: XA3	SMS3922-005LF Marking: XA2	SMS3922-015LF Marking: XA7		
SMS3923-079LF Marking: Cathode	SMS3923-011LF Marking: XB	SMS3923-001LF Marking: XB1		SMS3923-005LF Marking: XB2	SMS3923-015LF Marking: XB7	SMS3923-081LF Marking: XBQ	SMS3923-517 Marking: B 
SMS3924-079LF Marking: Cathode				SMS3924-005LF Marking: XC2	SMS3924-015LF Marking: XC7		
				SC-70			
				SMS3924-075LF Marking: XC2			
SMS3925-079LF Marking: Cathode							


1. A lower profile (< 0.65 mm) SC-79 package is available; please contact sales.

Hermetic Ceramic Packaged General-Purpose Schottky Diodes

Part Number	Barrier Height	Min. V_B @ 10 μA (V)	C_T $V_R = 0 V$, $F = 1 MHz$ (pF)	V_F $I_F = 1 mA$ (mV)	Max. V_F $I_F = 35 mA$ (mV)	Package
 SMS3922-108	Medium/Low	8	1.5 Max.	280–340	450 @ 10 mA	Leadless Surface Mount
 SMS3923-108	Medium	20	0.875–1.275	310–370	1000	Leadless Surface Mount

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








 The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.

SCHOTTKY DIODES

Plastic Packaged Silicon Mixer and Detector Schottky Diodes

Part Number	Min. V_B $I_R = 10 \mu A$ (V)	Typ. I_R $V_R = 1 V$ (nA)	Max. V_F $I_F = 1 mA$ (mV)	Max. C_T $V_R = 0 V$ (pF)	Max. R_T $I_F = 10 mA$ (Ω)
SMS1546-005LF	2	300	270	0.63	8
SMS7621 Series	2	80	320	0.28	18

Delta V_F for pairs and quads is 10 mV maximum at 1 mA.
Breakdown voltage and reverse leakage cannot be measured directly on ring configurations.

							
Single SC-79 ⁽¹⁾	Single SOT-23	Common Cathode SOT-23	Series Pair SOT-23	Reverse Series Pair SOT-23	Unconnected Pair SOT-143	Dual Series Pair SC-88	Unconnected Pair LGA <i>Lead (Pb)-Free</i>
			SMS1546-005LF Marking: SG2				
SMS7621-079LF Marking: Cathode	SMS7621-001LF Marking: XH1		SMS7621-005LF Marking: XH2	SMS7621-006LF Marking: XH8	SMS7621-015LF Marking: XH7	SMS7621-081LF Marking: XHQ	SMS7621-517 Marking: H 
		SC-70	SC-70				
		SMS7621-074LF Marking: XH3	SMS7621-075LF Marking: XH2				

1. A lower profile (< 0.65 mm) SC-79 package is available; please contact sales.

Hermetic Packaged Silicon Schottky Diodes for Mixer and Detector Applications

Part Number	Barrier Height	Min. V_B @ 10 μA (V)	Max. C_T $V_R = 0 V$, $F = 1 MHz$ (pF)	Max. R_S $I_F = 5 mA$ (Ω)	Package
 SMS7621-108	Low	2	0.325	18	Leadless Surface Mount

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





 The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.

SCHOTTKY DIODES

Plastic Packaged Silicon Mixer and Detector Schottky Diodes


Part Number	Min. V_B $I_R = 10 \mu A$ (V)	Max. V_F $I_F = 1 mA$ (mV)	Max. C_T $V_R = 0 V$ (pF)	Typ. R_T $I_F = 10 mA$ (Ω)
SMS7630 Series	1*	240	0.35	22

* V_B is measured at 100 μA (avalanche breakdown is typically 6 V).
Delta V_F for pairs and quads is 10 mV maximum at 1 mA.
Breakdown voltage and reverse leakage cannot be measured directly on ring configurations.

						
Single SC-79⁽¹⁾	Single SOD-323	Single SOT-23	Series Pair SOT-23	Reverse Series Pair SOT-23	Reverse Unconnected Pair SOT-143	Unconnected Pair LGA Lead (Pb)-Free
SMS7630-079LF Marking: Anode	SMS7630-011LF Marking: XD	SMS7630-001LF Marking: XD1	SMS7630-005LF Marking: XD2	SMS7630-006LF Marking: XD8	SMS7630-020LF Marking: XD0	SMS7630-517 Marking: D 

1. A lower profile (< 0.65 mm) SC-79 package is available; please contact sales.

Hermetic Packaged Zero Bias Detector Schottky Diodes

Part Number	Barrier Height	Min. V_B @ 10 μA (V)	Typ. C_T $V_R = 0.15 V$, $F = 1 MHz$ (pF)	V_F $I_F = 100 \mu A$ (mV)	V_F $I_F = 35.0 mA$ (mV)	Typ. Video Resistance (Ω)	Package
 SMS7630-109	ZBD	1	0.5	65–100	135–240	5000	Leadless Surface Mount




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SCHOTTKY DIODES




Chip On Board Silicon Schottky Diode Ring Quads (to 6 GHz)


Part Number	Barrier	V_F $I_F = 1 \text{ mA}$ (mV)	Max. ΔV_F $I_F = 1 \text{ mA}$ (mV)	C_J $V_R = 0 \text{ V}$, $F = 1 \text{ MHz}$ (pF)	Max. $\Delta C_T @ 0 \text{ V}$ (pF)	Max. R_T $I_F = 10 \text{ mA}$ (Ω)	Outline Drawing
 DMF3926-101	Low	200–260	15	0.3–0.5	0.07	8	549-002
 DME3927-101	Medium	300–400	15	0.3–0.5	0.07	8	549-002
 DMJ3928-101	High	525–625	15	0.3–0.5	0.07	8	549-002

Chip On Board Silicon Schottky Diode Crossover Ring Quads (to 6 GHz)

Part Number	Barrier	V_F $I_F = 1 \text{ mA}$ (mV)	Max. ΔV_F $I_F = 1 \text{ mA}$ (mV)	C_J $V_R = 0 \text{ V}$, $F = 1 \text{ MHz}$ (pF)	Max. $\Delta C_T @ 0 \text{ V}$ (pF)	Max. R_T $I_F = 10 \text{ mA}$ (Ω)	Outline Drawing
 DMF3926-100	Low	200–260	15	0.3–0.5	0.07	8	549-010
 DME3927-100	Medium	300–400	15	0.3–0.5	0.07	8	549-010
 DMJ3928-100	High	525–625	15	0.3–0.5	0.07	8	549-010

Chip On Board Silicon Schottky Diode Back-to-Back Crossover Quads (to 6 GHz)













Part Number	Barrier	V_F $I_F = 1 \text{ mA}$ (mV)	Max. ΔV_F $I_F = 1 \text{ mA}$ (mV)	C_J $V_R = 0 \text{ V}$, $F = 1 \text{ MHz}$ (pF)	Max. $\Delta C_T @ 0 \text{ V}$ (pF)	Max. R_T $I_F = 10 \text{ mA}$ (Ω)	Outline Drawing
 DMF3945-103	Low	200–260	15	0.3–0.5	0.07	8	545-065
 DME3946-103	Medium	300–400	15	0.3–0.5	0.07	8	545-065
 DMJ3947-103	High	525–625	15	0.3–0.5	0.07	8	545-065

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SCHOTTKY DIODES






Chip On Board Silicon Schottky Diode Quads (To 6 GHz)

		
Ring Quad	Crossover Quad	Back-to-Back Crossover Quad
 DMF3926-101 Marking: Red Dot	 DMF3926-100 Marking: Red Dot	 DMF3945-103 Marking: Red Dot
 DME3927-101 Marking: Blue Dot	 DME3927-100 Marking: Blue Dot	 DME3946-103 Marking: Blue Dot
 DMJ3928-101 Marking: Yellow Dot	 DMJ3928-100 Marking: Yellow Dot	 DMJ3947-103 Marking: Yellow Dot


Surface Mount Silicon Schottky Diode Mixer Quads

Part Number	Min. V_B $I_R = 10 \mu A$ (V)	Typ. I_R $V_R = 1 V$ (nA)	Max. V_F $I_F = 1 mA$ (mV)	Max. C_T $V_R = 0 V$ (pF)	Max. R_T $I_F = 10 mA$ (Ω)
SMS3926 Series/SMS3929-021	2	300	270	0.5	8
SMS3927 Series/SMS3930-021	2	50	370	0.5	8
SMS3928-023/SMS3931-021	4	5	580	0.5	8
SMS3940-026*	8	10	1160	0.3	16

* SMS3940-026 and DMJ3952-020 consist of two diodes in series in each leg.
Delta V_F for pairs and quads is 10 mV maximum at 1 mA.
Breakdown voltage and reverse leakage can not be measured directly on ring configurations.

				
Ring Quad SOT-143	Crossover Quad SOT-143	Bridge Quad SOT-143	Octoquad SOT-143	Crossover Octoquad SOT-143
SMS3926-022LF Marking: XE4	SMS3926-023LF Marking: XE5	SMS3929-021LF Marking: XQE		
	SMS3927-023LF Marking: XJ5	SMS3930-021LF Marking: XRE		
	SMS3928-023LF Marking: XK5	SMS3931-021LF Marking: XSE	SMS3940-026LF Marking: XTG	SMS3940-029LF Marking: XTN

Innovation to Go™ Select products (indicated in blue/bold) are now available for purchase online.

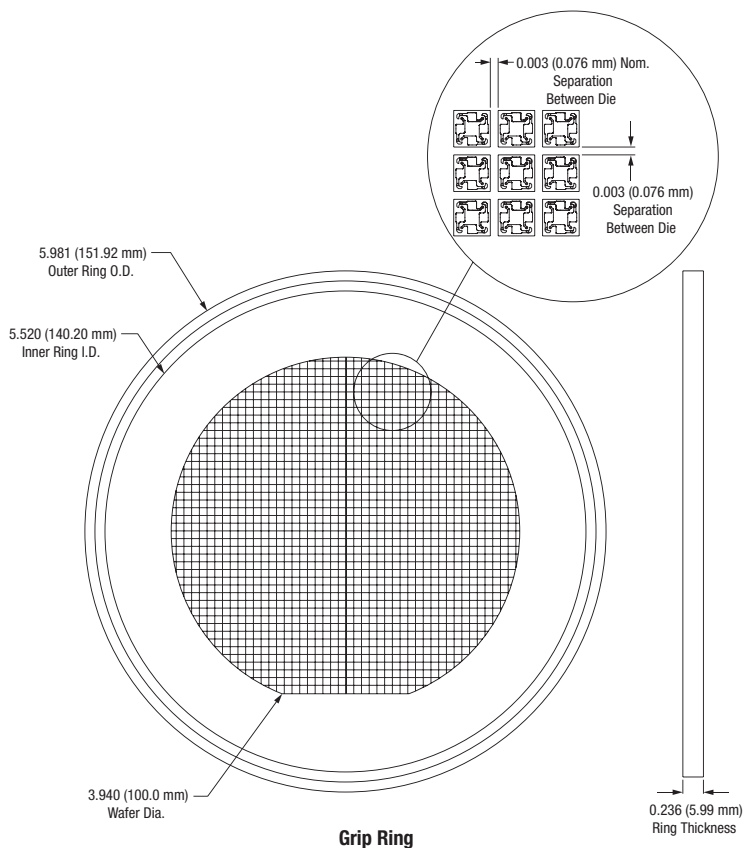
 Skyworks Green™ products are lead (Pb)-free, Restriction of Hazardous Substances (RoHS)-compliant, conform to the EIA/EICTA/JEITA Joint Industry Guide (JIG) Level A guidelines, and are free from antimony trioxide, and brominated flame retardants.

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SCHOTTKY DIODES

Silicon Schottky Diode Chips Supplied on Film Frame for Mixer Applications

Part Number	Min. V_B @ 10 μA (V)	C_J $V_R = 0 V, F = 1 MHz$ (pF)	V_F $I_F = 1 mA$ (mV)	Max. ΔV_F @ 1 mA (mV)	Max. R_T $I_F = 10 mA$ (Ω)
SMS3926-099	2	0.3–0.5	200–260	10	8
SMS3927-099	3	0.3–0.5	300–400	10	8
SMS3928-099	4	0.3–0.5	500–600	10	8



Silicon Schottky Diode Chips

Part Number	Barrier	Junction Type	C_J (pF)	R_T (Ω)	V_F @ 1 mA (mV)	V_B (V)	R_V @ 0 Bias (Ω)
CDB7619-000	Low	P	0.10	40	275–375	2	735
CDB7620-000	Low	P	0.15	30	250–350	2	537
CDC7630-000	ZBD	P	0.25	30	135–240	1	5.5
CDC7631-000	ZBD	P	0.15	80	150–300	2	7.2
CDF7621-000	Low	N	0.10	20	270–350	2	680
CDF7623-000	Low	N	0.30	10	240–300	2	245













Also available in hermetic and epoxy packages.

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
























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SCHOTTKY DIODES

Beam-Lead Single, N-Type, Low, Medium, High Drive Schottky Diodes

Part Number	Frequency Band	C_J 0 V @1 MHz (pF)	Max. R_S @ 5 mA (Ω)	Min. V_B @ 10 μ A (V)	V_F @ 1 mA (mV)	Drive Level
 DMF2820-000	S	0.30–0.50	5	2	200–260	Low
 DME2127-000	S	0.30–0.50	5	3	300–400	Med
 DMJ2823-000	S	0.30–0.50	5	4	500–600	High
 DMF2821-000	X	0.15–0.30	8	2	250–310	Low
 DME2957-000	X	0.15–0.30	8	3	325–425	Med
 DMJ2777-000	X	0.15–0.30	8	4	550–650	High
 DMF2344-000	Ku	0.05–0.15	13	2	260–330	Low
 DME2333-000	Ku	0.05–0.15	13	3	350–450	Med
 DMJ2824-000	Ku	0.05–0.15	13	4	500–680	High
 DMF2822-000	K	0.1 Max.	18	2	270–350	Low
 DME2458-000	K	0.1 Max.	18	3	375–550	Med
 DMJ2825-000	K	0.1 Max.	18	4	600–700	High

Epoxy and Hermetic Packaged Beam-Lead Single, N-Type, Low, Medium, High Drive Schottky Diodes

Epoxy Stripline 250	Epoxy Stripline 230	Hermetic Stripline 220
DMF2820-250 		 DMF2820-220
DME2127-250 		 DME2127-220
DMJ2823-250 		 DMJ2823-220
DMF2821-250 		 DMF2821-220
DME2957-250 		 DME2957-220
DMJ2777-250 		 DMJ2777-220
DMF2344-250 	DMF2344-230 	 DMF2344-220
DME2333-250 	DME2333-230 	 DME2333-220
DMJ2824-250 	DMJ2824-230 	 DMJ2824-220
	DMF2822-230 	 DMF2822-220
	DME2458-230 	 DME2458-220
	DMJ2825-230 	 DMJ2825-220

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SCHOTTKY DIODES



Beam-Lead Series Pair, N-Type, Low, Medium, High Drive Schottky Diodes

Part Number	Frequency Band	C_j 0 V, 1 MHz (pF)	Max. R_S @ 5 mA (Ω)	Min. V_B @ 10 μ A (V)	V_F @ 1 mA (mV)	Drive Level
DMF2835-000	S	0.30–0.50	5	2	200–260	Low
DME2050-000	S	0.30–0.50	5	3	300–400	Med
DMJ2092-000	S	0.30–0.50	5	4	500–600	High
DMF2826-000	X	0.15–0.30	8	2	250–310	Low
DME2829-000	X	0.15–0.30	8	3	325–425	Med
DMJ2093-000	X	0.15–0.30	8	4	550–650	High
DMF2827-000	Ku	0.05–0.15	13	2	260–330	Low
DME2830-000	Ku	0.05–0.15	13	3	350–450	Med
DMJ2832-000	Ku	0.05–0.15	13	4	500–680	High
DMF2828-000	K	0.1 Max.	18	2	270–350	Low
DME2831-000	K	0.1 Max.	18	3	375–550	Med
DMJ2833-000	K	0.1 Max.	18	4	600–700	High

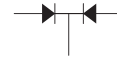
Epoxy and Hermetic Packaged Beam-Lead Series Pair, N-Type, Low, Medium, High Drive Schottky Diodes

Epoxy Stripline 252	Epoxy Stripline 232	Hermetic Stripline 222
DMF2835-252		DMF2835-222
DME2050-252		DME2050-222
DMJ2092-252		DMJ2092-222
DMF2826-252		DMF2826-222
DME2829-252		DME2829-222
DMJ2093-252		DMJ2093-222
DMF2827-252	DMF2827-232	DMF2827-222
DME2830-252	DME2830-232	DME2830-222
DMJ2832-252	DMJ2832-232	DMJ2832-222
	DMF2828-232	DMF2828-222
	DME2831-232	DME2831-222
	DMJ2833-232	DMJ2833-222

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SCHOTTKY DIODES



Beam-Lead Common Cathode, N-Type, Low, Medium, High Drive Schottky Diodes

Part Number	Frequency Band	C_j 0 V, 1 MHz (pF)	Max. R_S @ 5 mA (Ω)	Min. V_B @ 10 μ A (V)	V_F @ 1 mA (mV)	Drive Level
DMF2182-000	S	0.30–0.50	5	2	200–260	Low
DME2205-000	S	0.30–0.50	5	3	300–400	Med
DMJ2208-000	S	0.30–0.50	5	4	500–600	High
DMF2183-000	X	0.15–0.30	8	2	250–310	Low
DME2206-000	X	0.15–0.30	8	3	325–425	Med
DMJ2209-000	X	0.15–0.30	8	4	550–650	High
DMF2184-000	Ku	0.05–0.15	13	2	260–330	Low
DME2207-000	Ku	0.05–0.15	13	3	350–450	Med
DMJ2210-000	Ku	0.05–0.15	13	4	500–680	High
DMF2834-000	K	0.1 Max.	18	2	270–350	Low
DME2864-000	K	0.1 Max.	18	3	375–550	Med
DMJ2836-000	K	0.1 Max.	18	4	600–700	High

Epoxy and Hermetic Packaged Beam-Lead Common Cathode, N-Type, Low, Medium, High Drive Schottky Diodes

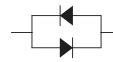
Epoxy Stripline 253	Hermetic Stripline 223
DMF2182-253	DMF2182-223
DME2205-253	DME2205-223
DMJ2208-253	DMJ2208-223
DMF2183-253	DMF2183-223
DME2206-253	DME2206-223
DMJ2209-253	DMJ2209-223
DMF2184-253	DMF2184-223
DME2207-253	DME2207-223
DMJ2210-253	DMJ2210-223
	DMF2834-223
	DME2864-223
	DMJ2836-223

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SCHOTTKY DIODES

Beam-Lead Anti-Parallel, N-Type, Low, Medium, High Drive Schottky Diodes



Part Number	Frequency Band	C_j 0 V, 1 MHz (pF)	Max. R_S @ 5 mA (Ω)	Min. V_B @ 10 μ A (V)	V_F @ 1 mA (mV)	Drive Level
DMF2185-000	S	0.30–0.50	5	2	200–260	Low
DME2282-000	S	0.30–0.50	5	3	300–400	Med
DMJ2303-000	S	0.30–0.50	5	4	500–600	High
DMF2186-000	X	0.15–0.30	8	2	250–310	Low
DME2283-000	X	0.15–0.30	8	3	325–425	Med
DMJ2304-000	X	0.15–0.30	8	4	550–650	High
DMF2187-000	Ku	0.05–0.15	13	2	260–330	Low
DME2284-000	Ku	0.05–0.15	13	3	350–450	Med
DMJ2246-000	Ku	0.05–0.15	13	4	500–680	High
DMF2837-000	K	0.1 Max.	18	2	270–350	Low
DME2838-000	K	0.1 Max.	18	3	375–550	Med
DMJ2839-000	K	0.1 Max.	18	4	600–700	High

Epoxy and Hermetic Packaged Beam-Lead Anti-Parallel, N-Type, Low, Medium, High Drive Schottky Diodes

Epoxy Stripline 251	Hermetic Stripline 221
DMF2185-251	DMF2185-221
DME2282-251	DME2282-221
DMJ2303-251	DMJ2303-221
DMF2186-251	DMF2186-221
DME2283-251	DME2283-221
DMJ2304-251	DMJ2304-221
DMF2187-251	DMF2187-221
DME2284-251	DME2284-221
DMJ2246-251	DMJ2246-221
	DMF2837-221
	DME2838-221
	DMJ2839-221

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SCHOTTKY DIODES



Beam-Lead Ring Quad, N-Type, Low, Medium, High Drive Schottky Diodes

Part Number	Frequency Band	C_j 0 V, 1 MHz (pF)	Max. R_S @ 5 mA (Ω)	Min. V_B @ 10 μ A (V)	V_F @ 1 mA (mV)	Drive Level
DMF2865-000	S	0.30–0.50	5	2	200–260	Low
DME2857-000	S	0.30–0.50	5	3	300–400	Med
DMJ2502-000	S	0.30–0.50	5	4	500–600	High
DMF2011-000	X	0.15–0.30	8	2	250–310	Low
DME2858-000	X	0.15–0.30	8	3	325–425	Med
DMJ2990-000	X	0.15–0.30	8	4	550–650	High
DMF2012-000	Ku	0.05–0.15	13	2	260–330	Low
DME2859-000	Ku	0.05–0.15	13	3	350–450	Med
DMJ2667-000	Ku	0.05–0.15	13	4	500–680	High
DMF2454-000	K	0.1 Max.	18	2	270–350	Low
DME2459-000	K	0.1 Max.	18	3	375–550	Med
DMJ2455-000	K	0.1 Max.	18	4	600–700	High

Epoxy and Hermetic Packaged Beam-Lead Ring Quad, N-Type, Low, Medium, High Drive Schottky Diodes

Epoxy Stripline 254	Epoxy Stripline 234	Hermetic Stripline 224
DMF2865-254		DMF2865-224
DME2857-254		DME2857-224
DMJ2502-254		DMJ2502-224
DMF2011-254		DMF2011-224
DME2858-254		DME2858-224
DMJ2990-254		DMJ2990-224
DMF2012-254	DMF2012-234	DMF2012-224
DME2859-254	DME2859-234	DME2859-224
DMJ2667-254	DMJ2667-234	DMJ2667-224
	DMF2454-234	DMF2454-224
	DME2459-234	DME2459-224
	DMJ2455-234	DMJ2455-224

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The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.

SCHOTTKY DIODES



Beam-Lead Bridge Quad, N-Type, Low, Medium, High Drive Schottky Diodes

Part Number	Frequency Band	C_j 0 V, 1 MHz (pF)	Max. R_S @ 5 mA (Ω)	Min. V_B @ 10 μ A (V)	V_F @ 1 mA (mV)	Drive Level
DMF2076-000	S	0.30–0.50	5	2	200–260	Low
DME2029-000	S	0.30–0.50	5	3	300–400	Med
DMJ2312-000	S	0.30–0.50	5	4	500–600	High
DMF2077-000	X	0.15–0.30	8	2	250–310	Low
DME2850-000	X	0.15–0.30	8	3	325–425	Med
DMJ2088-000	X	0.15–0.30	8	4	550–650	High
DMF2078-000	Ku	0.05–0.15	13	2	260–330	Low
DME2031-000	Ku	0.05–0.15	13	3	350–450	Med
DMJ2768-000	Ku	0.05–0.15	13	4	500–680	High
DMF2848-000	K	0.1 Max.	18	2	270–350	Low
DME2851-000	K	0.1 Max.	18	3	375–550	Med
DMJ2852-000	K	0.1 Max.	18	4	600–700	High

Epoxy and Hermetic Packaged Beam-Lead Bridge Quad, N-Type, Low, Medium, High Drive Schottky Diodes

Epoxy Stripline 255	Epoxy Stripline 235	Hermetic 225
DMF2076-255		DMF2076-225
DME2029-255		DME2029-225
DMJ2312-255		DMJ2312-225
DMF2077-255		DMF2077-225
DME2850-255		DME2850-225
DMJ2088-255		DMJ2088-225
DMF2078-255	DMF2078-235	DMF2078-225
DME2031-255	DME2031-235	DME2031-225
DMJ2768-255	DMJ2768-235	DMJ2768-225
	DMF2848-235	DMF2848-225
	DME2851-235	DME2851-225
	DMJ2852-235	DMJ2852-225

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SCHOTTKY DIODES



Epoxy Packaged Octo Quad Ring, N-Type, Low, Medium, High Drive Schottky Diodes

Part Number	Frequency Band	C_J 0 V, 1 MHz (pF)	Max. R_S @ 5 mA (Ω)	Min. V_B @ 10 μ A (V)	V_F @ 1 mA (mV)	Drive Level
DME3938-257	S-X	0.15–0.30	16	4	400–520	Low
DMF3939-257	S-X	0.15–0.30	16	6	600–800	Medium
DMJ3940-257	S-X	0.15–0.30	16	8	1000–1200	High

Beamless, N-Type, Low, Medium, High Drive Ring Quad Schottky Diodes

Part Number	Band	Barrier	V_F $I_F = 1$ mA (mV)	ΔV_F $I_F = 1$ mA (mV)	C_J $V_R = 0$ V, $F = 1$ MHz (pF)	R_S $I_F = 5$ mA (Ω)
DMF3926-000	S	Low	200–260	10	0.30–0.50	5
DMF3927-000	S	Medium	300–400	10	0.30–0.50	5
DMJ3928-000	S	High	500–600	10	0.30–0.50	5
DMF3942-000	X	Low	250–310	10	0.15–0.30	8
DME3943-000	X	Medium	325–425	10	0.15–0.30	8
DMJ3944-000	X	High	550–650	10	0.15–0.30	8

Beamless, N-Type, Low, Medium, High Drive Bridge Quad Schottky Diodes

Part Number	Band	Barrier	V_F $I_F = 1$ mA (mV)	ΔV_F $I_F = 1$ mA (mV)	C_J $V_R = 0$ V, $F = 1$ MHz (pF)	R_S $I_F = 5$ mA (Ω)
DMF3929-000	S	Low	200–260	10	0.3–0.5	5
DME3930-000	S	Medium	300–400	10	0.3–0.5	5
DMJ3931-000	S	High	500–600	10	0.3–0.5	5

Beamless, N-Type, Low, Medium, High Drive Series Pair Schottky Diodes




Part Number	Band	Barrier	V_F $I_F = 1$ mA (mV)	ΔV_F $I_F = 1$ mA (mV)	C_J $V_R = 0$ V, $F = 1$ MHz (pF)	R_S $I_F = 5$ mA (Ω)
DMF3932-000	S	Low	200–260	10	0.3–0.5	5
DME3933-000	S	Medium	300–400	10	0.3–0.5	5
DMJ3934-000	S	High	500–600	10	0.3–0.5	5

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SCHOTTKY DIODES




Beamless, N-Type, Low, Medium, High Drive Back-to-Back Ring Series Pair Schottky Diodes

Part Number	Band	Barrier	V_F $I_F = 1 \text{ mA}$ (mV)	ΔV_F $I_F = 1 \text{ mA}$ (mV)	C_J $V_R = 0 \text{ V}$, $F = 1 \text{ MHz}$ (pF)	R_S $I_F = 5 \text{ mA}$ (Ω)
 DMF3935-000	S	Low	200–260	10	0.3–0.5	5
 DME3936-000	S	Medium	300–400	10	0.3–0.5	5
 DMJ3937-000	S	High	500–600	10	0.3–0.5	5




Beamless, N-Type, Low, Medium, High Drive Octo Quad Ring Schottky Diodes

Part Number	Band	Barrier	V_F $I_F = 1 \text{ mA}$ (mV)	ΔV_F $I_F = 1 \text{ mA}$ (mV)	C_J $V_R = 0 \text{ V}$, $F = 1 \text{ MHz}$ (pF)	R_S $I_F = 5 \text{ mA}$ (Ω)
 DME3938-000	S-X	Low	400–520	15	0.15–0.30	16
 DMF3939-000	S-X	Medium	600–800	15	0.15–0.30	16
 DMJ3940-000	S-X	High	1000–1200	15	0.15–0.30	16

Beamless, N-Type, Low, Medium, High Drive Back-to-Back Crossover Quad (To 6 GHz) Schottky Diodes

Part Number	Band	Barrier	V_F $I_F = 1 \text{ mA}$ (mV)	ΔV_F $I_F = 1 \text{ mA}$ (mV)	C_J $V_R = 0 \text{ V}$, $F = 1 \text{ MHz}$ (pF)	R_S $I_F = 5 \text{ mA}$ (Ω)
 DMF3945-000	S	Low	200–260	15	0.3–0.5	5
 DME3946-000	S	Medium	300–400	15	0.3–0.5	5
 DMJ3947-000	S	High	525–625	15	0.3–0.5	5

Hermetic Packaged Beamless, N-Type, Low, Medium, High Drive Crossover Ring Quad Mixer Schottky Diodes




Part Number	Barrier Height	Max. C_T $V_R = 0.15 \text{ V}$, $F = 1 \text{ MHz}$ (pF)	V_F $I_F = 5 \text{ mA}$ (mV)	Max. ΔV_F $I_F = 5 \text{ mA}$ (mV)	V_F $I_F = 10 \text{ mA}$ (mV)	Max. ΔV_F $I_F = 10 \text{ mA}$ (mV)	Max. R_T $I_F = 5 \text{ mA}$ (Ω)	Package
 DMF3926-116	Low	0.55	260–330	10	–	–	10	Leadless Surface Mount
 DME3927-116	Medium	0.55	435–520	–	435–520	10	12	Leadless Surface Mount
 DMJ3928-116	High	0.55	610–700	–	610–700	10	10	Leadless Surface Mount

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SCHOTTKY DIODES










Hermetic Packaged Beamless, N-Type, Low, Medium, High Drive Bridge Quad (To 6 GHz) Schottky Diodes

Part Number	Barrier	V_F $I_F = 1 \text{ mA}$ (mV)	ΔV_F $I_F = 1 \text{ mA}$ (mV)	C_J $V_R = 0 \text{ V}$, $F = 1 \text{ MHz}$ (pF)	Max. $\Delta C_T @ 0 \text{ V}$ (pF)	Max. R_T $I_F = 10 \text{ mA}$ (Ω)	Package
 DMF3929-117	Low	200–260	15	0.3–0.5	0.07	8	Leadless Surface Mount
 DME3930-117	Medium	300–400	15	0.3–0.5	0.07	8	Leadless Surface Mount
 DMJ3931-117	High	525–625	15	0.3–0.5	0.07	8	Leadless Surface Mount



Beam-Lead P-Type Detector Schottky Diodes

Part Number	Frequency Band	Min. T_{SS} (dBm)	Z_{IF} (Ω)	Max. $C_J @ 0 \text{ V}$ (pF)	$V_F @ 1 \text{ mA}$ (mV)	$V_B @ 10 \mu\text{A}$ (V)	Frequency (GHz)
 DDB2503-000	X	50	500–700	0.15	200–350	2	10.00
 DDB2504-000	Ku	48	500–700	0.10	200–350	2	16.00
 DDB2265-000	K	50	800–1200	0.10	300–450	3	24.15







Epoxy and Hermetic Packaged Beam-Lead P-Type Detector Schottky Diodes

Epoxy Stripline 250	Epoxy Stripline 230	Hermetic Stripline 220
DDB2503-250 	DDB2503-230 	 DDB2503-220
DDB2504-250 	DDB2504-230 	 DDB2504-220
DDB2265-250 	DDB2265-230 	 DDB2265-220

P-Type Detector Chips

Part Number	Frequency Band	Min. T_{SS} (dBm)	Z_{IF} (Ω)	Gamma	Max. $C_J @ 0 \text{ V}$ (pF)	$V_F @ 1 \text{ mA}$ (mV)	$R_T @ 10 \text{ mA}$ (Ω)	$V_B @ 10 \mu\text{A}$ (V)	Frequency (GHz)
 CDB7620-000	Ku	40	500–700	8000	0.15	250–350	30	2	16.00
 CDB7619-000	K	50	800–1200	5000	0.10	300–450	40	3	24.15

Hermetic Packaged P-Type Detector Schottky Diodes






Hermetic Pill 207	Hermetic Pill 203	Hermetic 109
 CDB7620-207	 CDB7620-203	 SMS7620-109
 CDB7619-207	 CDB7619-203	 SMS7619-109

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SCHOTTKY DIODES



N-Type Detector Schottky Diode Chips

Part Number	Frequency Band	Drive Level	$V_F @ 1 \text{ mA}$ (mV)	Max. $C_J @ 0 \text{ V}$ (pF)	$R_T @ 10 \text{ mA}$ (Ω)	$V_B @ 10 \mu\text{A}$ (V)
 CDF7623-000	X	Low	240–300	0.30	10	2
 CDF7621-000	K	Low	270–350	0.10	20	2
 CME7660-000	Ku	Med.	350–450	0.15	10	3
 CDE7618-000	K	Med.	375–500	0.10	20	3
 CDP7624-000	Ku	Med.–High	450–575	0.15	15	3





Hermetic Packaged N-Type Detector Schottky Diodes


Hermetic Ceramic Pill 207	Hermetic Ceramic Pill 203	Hermetic Surface Mount 108
 CDF7623-207	 CDF7623-203	 SMS7623-108
 CDF7621-207	 CDF7621-203	 SMS7621-108
 CME7660-207	 CME7660-203	 SMS7660-108
 CDE7618-207	 CDE7618-203	 SMS7618-108
 CDP7624-207	 CDP7624-203	 SMS7624-108

P-Type Zero Bias Detector Beam-Lead Schottky Diodes

Part Number	Min. E_0 (mV)	Z_V (Ω)	Min. T_{SS} (dBm)
 DDC2353-000	8	2000–5000	-52
 DDC2354-000	15	5000–15000	-56

Epoxy and Hermetic Packaged P-Type Zero Bias Detector Beam-Lead Schottky Diodes



Epoxy Stripline 250	Hermetic 220
DDC2353-250 	 DDC2353-220
DDC2354-250 	 DDC2354-220

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SCHOTTKY DIODES


P-Type Zero Bias Detector Schottky Diode Chips

Part Number	Min. E0 (mV)	Z _V (Ω)	Min. T _{SS} (dBm)
 CDC7630-000	8	2000–5000	-52
 CDC7631-000	15	5000–15000	-56


Hermetic Packaged P-Type Zero Bias Detector Schottky Diodes

Hermetic Pill 207	Hermetic Pill 203	Hermetic 109
 CDC7630-207	 CDC7630-203	 SMS7630-109
 CDC7631-207	 CDC7631-203	 SMS7619-109

GaAs Flip Chip Schottky Diodes—Single

Part Number	V _B @ 10 μA (V)	C _J @ 0 V, 1 MHz (pF)	Max. R _S (Ω)	V _F @ 1 mA (mV)	Recommended Frequency (GHz)
 DMK2790-000	3	0.04–0.07	7	650–750	20–50

GaAs Flip Chip Schottky Diodes—Anti-Parallel

Part Number	C _J @ 0 V, 1 MHz (pF)	Max. R _S (Ω)	V _F @ 1 mA (mV)	Recommended Frequency (GHz)
 DMK2308-000	0.04–0.07	7	650–750	20–50

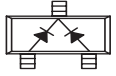


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VARACTOR DIODES

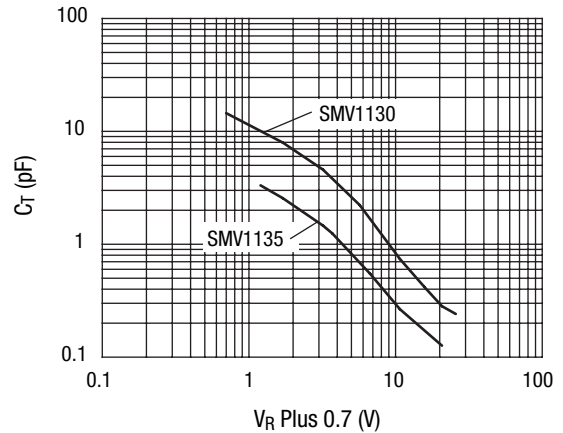
Large Bandwidth Silicon Hyperabrupt Varactor Diodes

Part Number	Min. V_B $I_R = 10 \mu A$ (V)	C_T $V_R = 1 V$ (pF)	C_R 1 V/3 V	C_R 1 V/9 V	R_S 500 MHz (Ω)
SMV1130 Series	26	17.4–21.2	1.47–1.76	3.7–4.5	0.8 Max. @ 1 V
SMV1135 Series	28	8.2–10.0	1.47–1.76	3.7–4.5	1.2 Max. @ 1 V

		
Common Cathode SOT-23	Single SC-79⁽¹⁾	Single SOT-23
	SMV1130-079LF Marking: Cathode	SMV1130-001LF Marking: HW1
SMV1135-004LF Marking: EG3		

1. A lower profile (< 0.65 mm) SC-79 package is available; please contact sales.



Typical Performance Characteristics



Large Bandwidth Silicon Hyperabrupt Varactor Diodes (Continued)

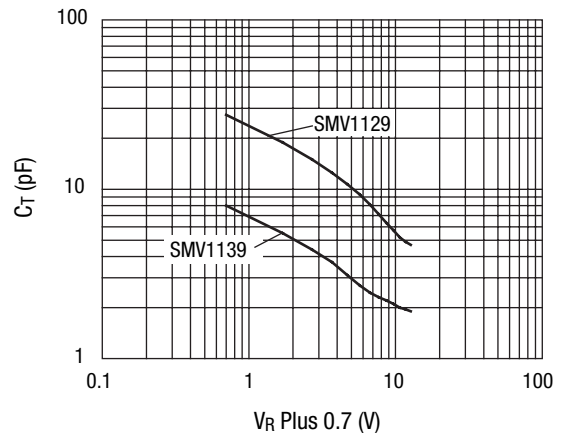
Part Number	C_T @ 1 V (pF)	Min. C_R @ 1 V/3 V	Min. C_R @ 1 V/6 V	Max. R_S 500 MHz @ 1 V (Ω)
SMV1129 Series	17.5–20.5	1.4	2.0	0.4
SMV1139 Series	4.95–5.85	1.4	2.0	0.6

Minimum breakdown voltage 12 V @ $I_R = 10 \mu A$.
Reverse leakage 20 nA max. @ $V_R = 10 V$.

	
Single SOD-323	Single SC-79⁽¹⁾
	SMV1129-079LF Marking: Cathode
SMV1139-011LF Marking: HG	

1. A lower profile (< 0.65 mm) SC-79 package is available; please contact sales.

Typical Performance Characteristics





 The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.

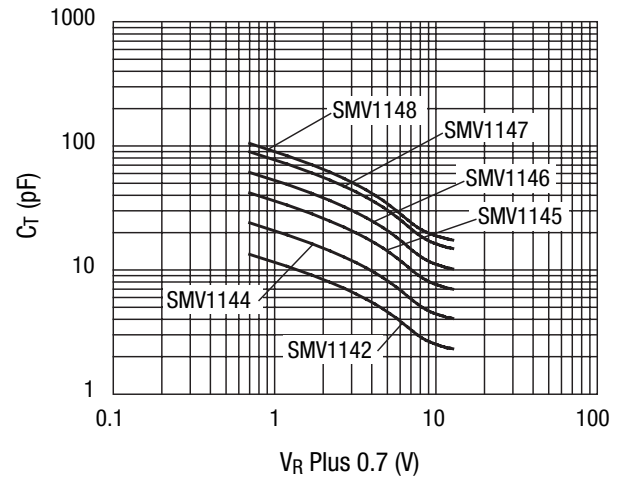
VARACTOR DIODES

Large Bandwidth Silicon Hyperabrupt Varactor Diodes (Continued)

Part Number	Min. V_B $I_R = 10 \mu A$ (V)	C_T $V_R = 1 V$ (pF)	Typ. C_T $V_R = 3 V$ (pF)	Typ. C_T $V_R = 6 V$ (pF)	C_R 1 V/3 V	C_R 1 V/6 V	Max. R_S 500 MHz (Ω)	Typ. Q 50 MHz
SMV1142 Series	12	8.20–10.00	5.8	3.5	1.50–1.65	2.43–2.93	0.70 @ 3 V	800 @ 3 V
SMV1144 Series	12	14.65–17.95	10.4	6.1	1.50–1.65	2.46–2.96	0.65 @ 3 V	500 @ 3 V
SMV1145 Series	12	25.50–31.20	18.1	10.6	1.50–1.65	2.50–3.00	0.60 @ 3 V	200 @ 3 V
SMV1147 Series	12	54.60–66.70	38.6	22.6	1.50–1.65	2.50–3.00	0.55 @ 3 V	150 @ 3 V
SMV1148 Series	12	62.00–76.00	44.1	25.2	1.50–1.65	2.50–3.00	0.50 @ 3 V	150 @ 3 V

	
Single SOD-323	Single SC-79⁽¹⁾
SMV1142-011LF Marking: GU	
SMV1143-011LF Marking: GV	
SMV1144-011LF Marking: GW	
SMV1145-011LF Marking: GA	SMV1145-079LF Marking: Cathode
SMV1147-011LF Marking: GY	SMV1147-079LF Marking: Cathode
SMV1148-011LF Marking: GZ	

Typical Performance Characteristics



1. A lower profile (< 0.65 mm) SC-79 package is available; please contact sales.






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VARACTOR DIODES

Large Bandwidth Silicon Hyperabrupt Varactor Diodes (Continued)

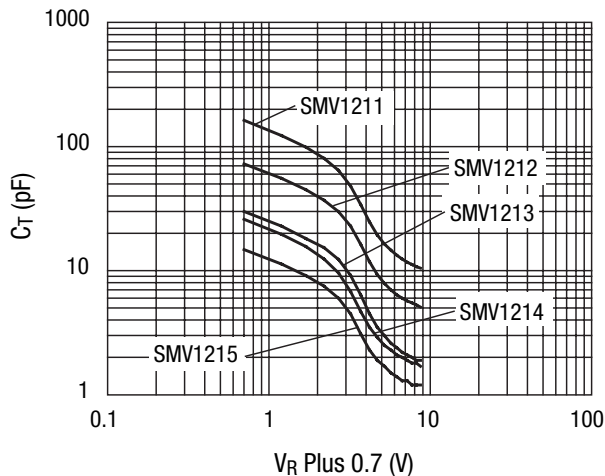
Part Number	Typ. C_T $V_R = 1\text{ V}$ (pF)	C_T $V_R = 2.5\text{ V}$ (pF)	Max. C_T $V_R = 4\text{ V}$ (pF)	Typ. C_R 1 V/2.5 V	Typ. C_R 1 V/4 V	Typ. R_S 500 MHz @ 4 V (Ω)	Min. Q 50 MHz @ 4 V
SMV1211 Series	100	40–65	25.0	2	5	0.4	80
SMV1212 Series	50	18–27	12.0	2	5	0.8	150
SMV1213 Series	22	8.5–10.5	5.5	2	5	1.4	200
SMV1214 Series	16	6.5–7.8	4.8	2	5	1.7	300
SMV1215 Series	9.5	4.3–5.5	2.9	2	5	2.8	350

Minimum breakdown voltage 12 V @ $I_R = 10\ \mu\text{A}$.
Reverse leakage 20 nA max. @ $V_R = 8\text{ V}$.

				
Single SOT-23	Common Cathode SOT-23	Common Cathode SC-70	Single SOD-323	Single SC-79 ⁽¹⁾
SMV1211-001LF Marking: EA1				
SMV1212-001LF Marking: EB1	SMV1212-004LF Marking: EB3	SMV1212-074LF Marking: EB3		SMV1212-079LF Marking: Cathode
SMV1213-001LF Marking: D86	SMV1213-004LF Marking: GD3	SMV1213-074LF Marking: GD3	SMV1213-011LF Marking: GD	SMV1213-079LF Marking: Cathode
SMV1214-001LF Marking: DL1				
SMV1215-001LF Marking: DM1			SMV1215-011LF Marking: DM	

1. A lower profile (< 0.65 mm) SC-79 package is available; please contact sales.

Typical Performance Characteristics



Innovation to Go™ Select products (indicated in blue/bold) are now available for purchase online.







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VARACTOR DIODES

Large Bandwidth Silicon Hyperabrupt Varactor Diodes (Continued)

Part Number	C_T $V_R = 1\text{ V}$ (pF)	Typ. C_T $V_R = 3\text{ V}$ (pF)	Typ. C_T $V_R = 6\text{ V}$ (pF)	C_R 1 V/3 V	C_R 1 V/6 V	Max. R_S 500 MHz @ 3 V (Ω)	Typ. Q 50 MHz @ 3 V
SMV1231 Series	1.43–1.72	0.97	0.61	1.5–1.8	2.5–2.8	2.90	1500
SMV1232 Series	2.34–2.86	1.50	0.94	1.5–1.9	2.6–3.3	1.50	1400
SMV1233 Series	3.00–3.60	1.80	1.10	1.5–1.9	2.6–3.3	1.20	1200
SMV1234 Series	5.85–7.15	3.60	2.00	1.6–2.0	2.8–3.4	0.80	1000
SMV1235 Series	10.35–12.65	6.40	3.60	1.6–2.0	2.9–3.4	0.60	750
SMV1236 Series	15.50–18.50	9.20	5.30	1.6–2.0	3.0–3.5	0.50	700
SMV1237 Series	45–54	26.90	14.40	1.6–2.0	3.0–3.5	0.25	500

Minimum breakdown voltage 15 V @ $I_R = 10\ \mu\text{A}$.
Reverse leakage 20 nA max. @ $V_R = 8\text{ V}$.

					
Single SOT-23	Common Cathode SOT-23	Common Cathode SC-70	Common Anode SC-70	Single SOD-323	Single SC-79 ⁽¹⁾
		SMV1231-074LF Marking: KA3		SMV1231-011LF Marking: KA	SMV1231-079LF Marking: Cathode
		SMV1232-074LF Marking: HC3		SMV1232-011LF Marking: HC	SMV1232-079LF Marking: Cathode
SMV1233-001LF Marking: DP1	SMV1233-004LF Marking: DP3	SMV1233-074LF Marking: DP3		SMV1233-011LF Marking: DP	SMV1233-079LF Marking: Cathode
SMV1234-001LF Marking: DQ1	SMV1234-004LF Marking: DQ3		SMV1234-073LF Marking: DQ9	SMV1234-011LF Marking: DQ	SMV1234-079LF Marking: Cathode
SMV1235-001LF Marking: DR1	SMV1235-004LF Marking: DR3	SMV1235-074LF Marking: DR3		SMV1235-011LF Marking: DR	SMV1235-079LF Marking: Cathode
SMV1236-001LF Marking: EQ1	SMV1236-004LF Marking: EQ3	SMV1236-074LF Marking: EQ3		SMV1236-011LF Marking: EQ1	SMV1236-079LF Marking: Cathode
SMV1237-001LF Marking: DT1					

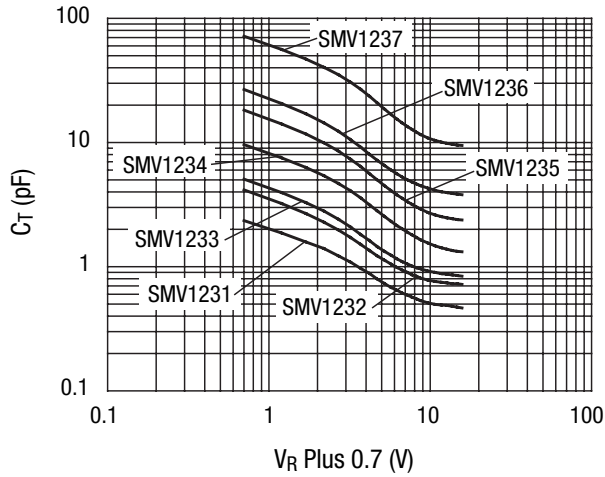
1. A lower profile (< 0.65 mm) SC-79 package is available; please contact sales.

Innovation to Go™ Select products (indicated in blue/bold) are now available for purchase online.

 The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.

VARACTOR DIODES







Typical Performance Characteristics



Large Bandwidth Silicon Hyperabrupt Varactor Diodes (Continued)

Part Number	Min. C_T $V_R = 0.3$ V (pF)	C_T $V_R = 1$ V (pF)	Typ. C_T $V_R = 3$ V (pF)	Typ. C_T $V_R = 4.7$ V (pF)	C_R 0.3 V/4.7 V	C_R 1 V/3 V	Max. R_S 500 MHz @ 3 V (Ω)	Typ. Q 50 MHz @ 3 V
SMV1247 Series	7	4.4 Typ.	0.95	0.7	9.5–10.0	4.6 Typ.	2.00	1500
SMV1248 Series	17	12.3 Typ.	2.60	1.5	10.8–12.0	4.7 Typ.	1.80	700
SMV1249 Series	31	18.2 Typ.	3.40	2.6	11.0–12.1	5.3 Typ.	1.50	600
SMV1251 Series	42	28.1 Typ.	5.80	3.4	11.0–12.2	4.8 Typ.	1.30	400
SMV1253 Series	53	37.0 Typ.	7.77	4.3	11.0–12.3	4.7 Typ.	1.20	350
SMV1255 Series	64	43.3 Typ.	8.50	5.2	11.0–12.3	5.1 Typ.	1.00	350

Minimum breakdown voltage 15 V @ $I_R = 10 \mu A$.
Reverse leakage 20 nA max. @ $V_R = 8$ V.

					
Single SOT-23	Common Anode SOT-23	Common Cathode SOT-23	Common Cathode SC-70	Single SOD-323	Single SC-79 ⁽¹⁾
			SMV1247-074LF Marking: GF3	SMV1247-011LF Marking: GF	SMV1247-079LF Marking: Cathode
SMV1248-001LF Marking: GG1			SMV1248-074LF Marking: GG3		SMV1248-079LF Marking: Cathode
SMV1249-001LF Marking: EF1	SMV1249-003LF Marking: EF9	SMV1249-004LF Marking: EF3	SMV1249-074LF Marking: EF3	SMV1249-011LF Marking: EF	SMV1249-079LF Marking: Cathode
SMV1251-001LF Marking: EH		SMV1251-004LF Marking: EH3	SMV1251-074LF Marking: EH3	SMV1251-011LF Marking: EK	SMV1251-079LF Marking: Cathode
		SMV1253-004LF Marking: EJ3			SMV1253-079LF Marking: Cathode
SMV1255-001LF Marking: EK1		SMV1255-004LF Marking: EK3		SMV1255-011LF Marking: EK	SMV1255-079LF Marking: Cathode

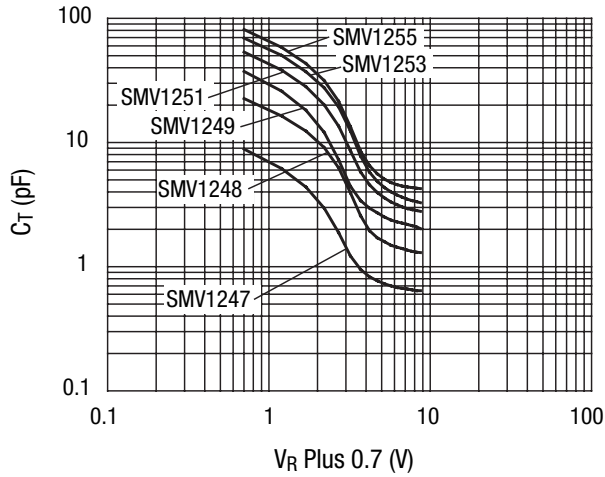
1. A lower profile (< 0.65 mm) SC-79 package is available; please contact sales.

Innovation to Go™ Select products (indicated in blue/bold) are now available for purchase online.

 The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.



VARACTOR DIODES


Typical Performance Characteristics



Large Bandwidth Silicon Hyperabrupt Varactor Diodes (Continued)

Part Number	Min. V_B $I_R = 10 \mu A$ (V)	C_T $V_R = 1 V$ (pF)	C_T $V_R = 20 V$ (pF)	C_T $V_R = 26 V$ (pF)	C_R 1 V/3 V	C_R 1 V/9 V	C_R 1 V/20 V	C_R 1 V/26 V	R_S 500 MHz (Ω)
SMV1245 Series	26	4.4–5.4	–	–	1.47–1.76	3.5–4.2	–	–	2.0 Max. @ 1 V
SMV1265 Series	28	12.5–14.7	–	0.58–0.83	–	–	–	17.7 Min.	2.4 Typ. @ 1 V
SMV1281 Series	24	7.8–9.5	0.6–0.8	–	–	–	12.0 Typ.	–	1.7 Typ. @ 1 V
SMV1283 Series	28	8.5–9.7	–	0.50–0.75	–	–	–	14.7 Typ.	2.4 Typ. @ 1 V


	
Single SOD-323	Single SC-79
SMV1245-011LF Marking: HL	
SMV1265-011LF Marking: HM	
SMV1281-011LF Marking: HP	SMV1281-079LF Marking: Cathode
SMV1283-011LF Marking: HQ	

 The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.

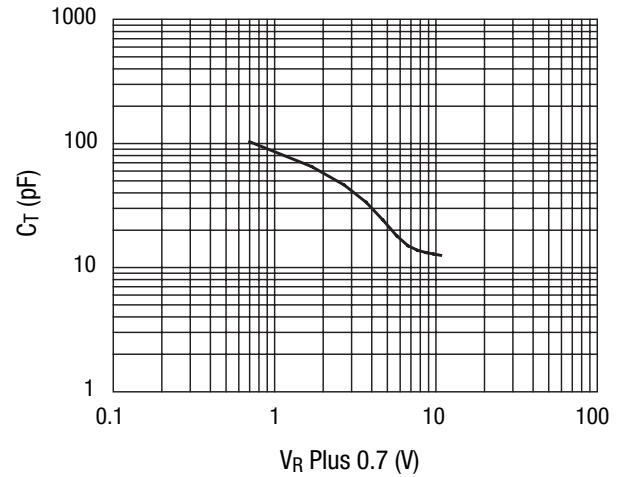
VARACTOR DIODES

Large Bandwidth Silicon Hyperabrupt Varactor Diodes (Continued)

Part Number	Min. V_B @ 10 μ A (V)	C_T $V_R = 0.1$ V (pF)	C_T $V_R = 2$ V (pF)	C_T $V_R = 4$ V (pF)	Min. C_R 0.1 V/4 V	Max. R_S 470 MHz (Ω) @ 5 V
SMV1702 Series	10	90–110	41–50	22–29	3.6	1.25





Single SOD-23
SMV1702-011LF Marking: HJ

Typical Performance Characteristics



Large Bandwidth Silicon Hyperabrupt Varactor Diodes (Continued)

Part Number	Min. V_B $I_R = 10$ μ A (V)	C_T $V_R = 4$ V (pF)	C_T $V_R = 20$ V (pF)	Min. C_R 4 V/20 V	Q 50 MHz
SMV2022 Series	22	2.50–3.30	0.60–0.85	3.0	500 Typ. @ 4 V
SMV2023 Series	22	4.40–5.40	0.90–1.20	4.2	500 Typ. @ 4 V

		
Single SOT-23	Common Cathode SOT-23	Single SOD-323
	SMV2022-004LF Marking: DJ3	
SMV2023-001LF Marking: DK1	SMV2023-004LF Marking: DK3	SMV2023-011LF Marking: DK1




 The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.

VARACTOR DIODES

Large Bandwidth Silicon Hyperabrupt Varactor Diodes (Continued)

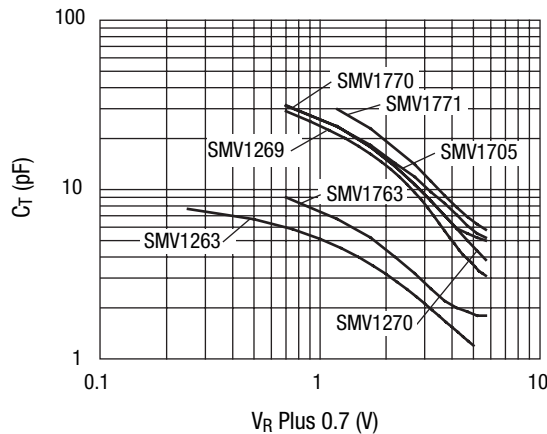
Part Number	Min. V_B $I_R = 10 \mu A$ (V)	C_T $V_R = 0.5 V$ (pF)	C_T $V_R = 1 V$ (pF)	C_T $V_R = 2.5 V$ (pF)	C_T $V_R = 4 V$ (pF)	Min. C_R 0.5 V/ 2.5 V	Typ. C_R 1 V/4 V	R_S 500 MHz (Ω)	Max. R_S 900 MHz (Ω)
SMV1263 Series	20	6.2–7.2	–	2.3–2.9	–	2.3	–	–	1.2 @ 1 V
SMV1269 Series	10	19.2–21.8	–	6.5–8.1	–	2.5	–	–	0.8 @ 1 V
SMV1270 Series	20	22.1–25.1	–	7.7–9.8	–	2.3	–	0.7 Typ. @ 1 V	–
SMV1705 Series	12	–	17.3–19.3	–	5.3–6.6	3	0.32	–	–
SMV1763 Series	10	6.2–7.2	–	2.3–2.9	–	2.3	–	–	0.7 @ 1 V
SMV1770 Series	12	22.1–25.1	–	7.7–9.8	–	2.3	–	0.5 Max. @ 1 V	–
SMV1771 Series	12	22.0–24.0	–	9.25–12.5	–	2.3	–	0.5 Max. @ 1 V	–

Reverse leakage 20 nA max. @ $V_R = 8 V$.

		
Common Cathode SOT-23	Common Cathode SC-70	Single SC-79 ⁽¹⁾
	SMV1263-074LF Marking: EN3	SMV1263-079LF Marking: Cathode
	SMV1269-074LF Marking: EE3	
		SMV1270-079LF Marking: Cathode
SMV1705-004LF Marking: HY3	SMV1705-074LF Marking: HY3	SMV1705-079LF Marking: Cathode
		SMV1763-079LF Marking: Cathode
		SMV1770-079LF Marking: Cathode
		SMV1771-079LF Marking: Cathode

1. A lower profile (< 0.65 mm) SC-79 package is available; please contact sales.

Typical Performance Characteristics








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VARACTOR DIODES


Large Bandwidth Silicon Hyperabrupt Varactor Diode Chips

Part Number	Typ. C_T @ 0 V (pF)	C_T @ 4 V (pF)	C_T @ 20 V (pF)	Min. Q @ 4 V 50 MHz	Typ. R_S @ 4 V 1 GHz (Ω)	Max. I_R @ 17.6 V (nA)
 SMV2019-000	2.3	0.68–0.88	0.13–0.23	500	4.8	50
 SMV2020-000	3.1	1.13–1.43	0.23–0.33	500	4.1	50
 SMV2021-000	4.5	1.58–1.98	0.32–0.44	500	2.8	50
 SMV2022-000	7.1	2.48–3.08	0.48–0.68	400	2.2	50
 SMV2023-000	10.8	4.28–5.28	0.78–1.08	400	1.4	50


Hermetic Packaged Large Bandwidth Silicon Hyperabrupt Varactor Diodes

Hermetic Stripline 240	Hermetic Pill 203	Hermetic Pill 219	Hermetic Pill 210
 SMV2019-240	 SMV2019-203	 SMV2019-219	 SMV2019-210
 SMV2020-240	 SMV2020-203	 SMV2020-219	 SMV2020-210
 SMV2021-240	 SMV2021-203	 SMV2021-219	 SMV2021-210
 SMV2022-240	 SMV2022-203	 SMV2022-219	 SMV2022-210
 SMV2023-240	 SMV2023-203	 SMV2023-219	 SMV2023-210

Hermetic Ceramic Packaged Large Bandwidth Silicon Hyperabrupt Varactor Diodes

Part Number	C_T @ 4 V (pF)	C_T @ 20 V (pF)	Typ. Q $V_R = 4$ V $F = 50$ MHz	Max. I_R $V_R = 17.6$ V (nA)	Min. V_B $I_R = 10$ μ A (V)	Package
 SMV2019-108	0.86–1.10	0.28–0.42	500	50	22	Leadless Surface Mount

Hermetic Ceramic Hyperabrupt Junction Varactor Diodes

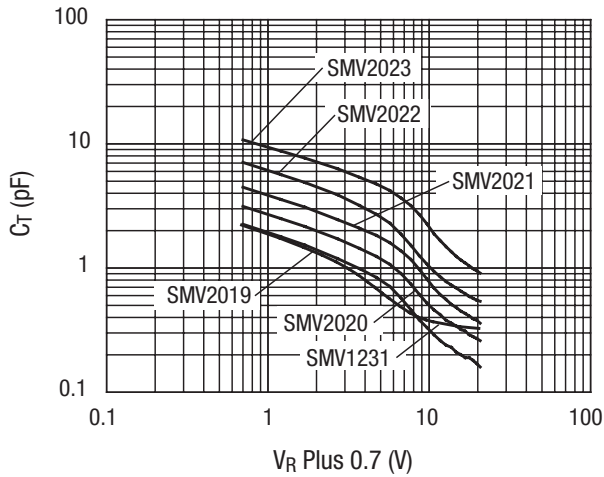
Part Number	Min. V_B @ 10 μ A (V)	Max. I_R @ 16 V (nA)	C_T @ 3 V (pF)	C_T @ 20 V (pF)	Min. C_{T3} C_{T20}	Min. Q @ 3 V 50 MHz	Package
 SMV1206-108	20	50	10.6–12.6	2.15–2.6	4.45	400	Leadless Surface Mount

 Skyworks Green™ products are lead (Pb)-free, Restriction of Hazardous Substances (RoHS)-compliant, conform to the EIA/EICTA/JEITA Joint Industry Guide (JIG) Level A guidelines, and are free from antimony trioxide, and brominated flame retardants.

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



VARACTOR DIODES

Typical Performance Characteristics



High Q Silicon Abrupt Varactor Diodes

Part Number	Min. V_B $I_R = 10 \mu A$ (V)	C_T $V_R = 0.5 V$ (pF)	C_T $V_R = 1 V$ (pF)	C_T $V_R = 4 V$ (pF)	Min. C_R 0 V/30 V	Max. R_S 500 MHz (Ω)	Max. $R_S @ 1 V$ 500 MHz (Ω)	Q 50 MHz
SMV1405 Series	30	2.1 Typ.	1.8 Typ.	1.21–1.45	4.1	0.80	–	3200
SMV1408 Series	30	3.4 Typ.	2.9 Typ.	1.75–2.11	4.1	0.60	–	2900
SMV1413 Series	30	7.4 Typ.	6.4 Typ.	3.64–4.42	4.2	0.35	–	2400
SMV1493 Series	–	–	17.4–20.0	10.0–12.1	–	–	0.50	–
SMV1494 Series	–	–	36.3–41.7	20.7–25.3	–	–	0.45	–

			
Single SOT-23	Common Cathode SOT-23	Common Cathode SC-70	Single SC-79⁽¹⁾
		SMV1405-074LF Marking: GE3	SMV1405-079LF Marking: Cathode
SMV1408-001LF Marking: DV1			
SMV1413-001LF Marking: ER1	SMV1413-004LF Marking: ER3	SMV1413-074LF Marking: ER3	SMV1413-079LF Marking: Cathode
			SMV1493-079LF Marking: Cathode
			SMV1494-079LF Marking: Cathode

1. A lower profile (< 0.65 mm) SC-79 package is available; please contact sales.

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VARACTOR DIODES

Abrupt Junction Varactor Diode Chips

Part Number	V_B $I_R @ 10 \mu A$ (V)	Typ. $C_T @ 1 V$ (pF)	$C_T @ 4 V$ (pF)	Min. $C_T @ 0 V$ $C_T @ 30 V$ (Ratio)	Max. $R_S @ 1 V$ 50 MHz (Ω)	Max. $R_S @ 4 V$ 50 MHz (Ω)	Typ. Q @ 4 V 50 MHz
SMV1405-000	30	–	1.08–1.32	4.1	–	0.80	3200
SMV1408-000	30	–	1.62–1.98	4.1	–	0.60	2900
SMV1413-000	30	–	3.59–4.29	4.2	–	0.35	2400
SMV1493-000	12	18.57	9.87–11.97	–	25	–	–
SMV1494-000	12	38.87	20.57–25.07	–	20	–	–

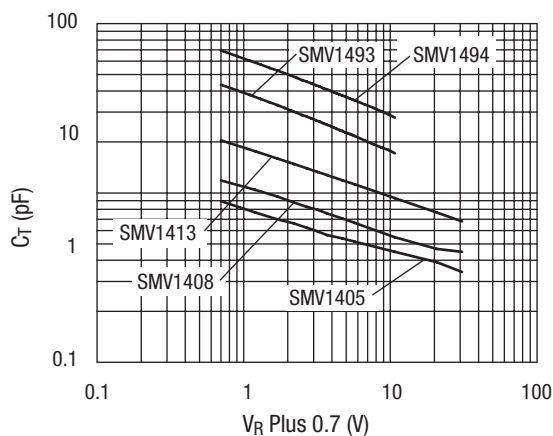
Hermetic Packaged Abrupt Junction Varactor Diodes

Hermetic Stripline 240	Hermetic Pill 203	Hermetic Pill 219	Hermetic Pill 210
SMV1405-240	SMV1405-203	SMV1405-219	SMV1405-210
SMV1408-240	SMV1408-203	SMV1408-219	SMV1408-210
SMV1413-240	SMV1413-203	SMV1413-219	SMV1413-210
SMV1493-240	SMV1493-203	SMV1493-219	SMV1493-210
SMV1494-240	SMV1494-203	SMV1494-219	SMV1494-210

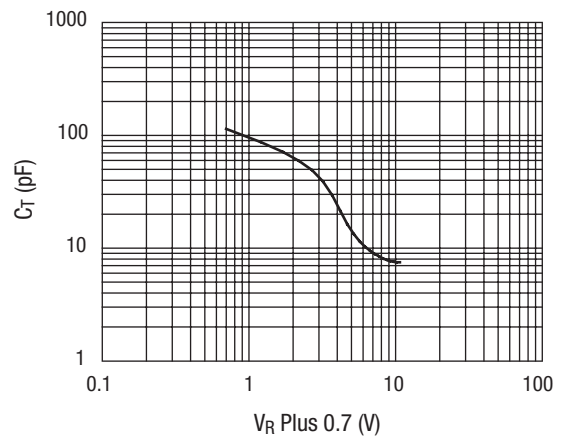
Hermetic Ceramic Packaged High Q Silicon Abrupt Varactor Diodes

Part Number	Min. V_B $I_R = 10 \mu A$ (V)	Max. I_R $V_R = 24 V$ (nA)	C_T $V_R = 4 V$ (pF)	Min. C_R 0 V/30 V	Max. R_S $V_R = 4 V$, F = 500 MHz (Ω)	Typ. Q $V_R = 4 V$ F = 500 MHz
SMV1405-108	30	20	1.25–1.56	3.8	0.8	3200

Typical Performance Characteristics



Typical Performance Characteristics



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DIRECTIONAL COUPLERS

Part Number	Frequency (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Typ.	Input VSWR Typ.	Output VSWR Typ.	Coupling (dB) Typ.	Coupled Port VSWR Typ.	Package
DC08-73LF	0.81–0.96	0.45	22	1.05:1	1.05:1	15.0	1.2:1	SOT-6
DC09-73LF	0.81–0.96	0.20	30	1.1:1	1.1:1	19.8	1.1:1	SOT-6
DC15-73LF	1.42–1.66	0.20	34	1.1:1	1.1:1	18.4	1.1:1	SOT-6
DC16-73LF	1.42–1.99	0.30	24	1.1:1	1.1:1	15.0	1.1:1	SOT-6
DC18-73LF	1.71–1.99	0.20	38	1.1:1	1.1:1	18.8	1.2:1	SOT-6
DC25-73LF	2.30–2.60	0.20	33	1.1:1	1.1:1	17.2	1.3:1	SOT-6

DIRECTIONAL DETECTORS

Part Number	Frequency (GHz)	Insertion Loss (dB) Typ.	Directivity (dB)	Input VSWR Typ.	Output VSWR Typ.	Directed Output Voltage (dBm)	Package
DD02-999LF	0.65–3.0	0.2	2	1.1:1	1.1:1	80 mV @ 900 MHz 160 mV @ 1800 MHz	SC-88

SAMPLING PHASE DETECTORS

Part Number	Typ. Microwave Signal Drive Level (dBm)	Barrier	Schottky Diode			Step Recovery Diode			
			V _F @ 1 mA (mV)	Max. R _T @ 5 mA (Ω)	Typ. C _J @ 0 V (pF)	Typ. Capacitor C _C (pF)	Typ. C _J @ 6 V (pF)	Typ. T _I (ns)	Typ. T _T (ps)
 SPD1101-111	-3 to 0	Low	270–350	24	0.10	0.5	0.25	10	70
 SPD1102-111	0 to 3	Medium	370–550	24	0.10	0.5	0.25	10	70
 SPD1103-111	3 to 13	High	600–700	24	0.10	0.5	0.25	10	70

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FILTERS

BAW Filters

Part Number	Pass Band Frequency (GHz)	Pass Band Insertion Loss Typ. (dB)	Pass Band Return Loss Typ. (dB)	Attenuation-Lower Stop Band (dB)	Lower Stop Band Frequency (GHz)	Attenuation-Upper Stop Band (dB)	Package (mm)
SKY33100-360LF	2.402–2.472	2	10	14	2.4835	14	QFN 16L 2 x 2

Programmable Filters

Part Number	Lowest Cutoff Frequency (MHz)	Highest Cutoff Frequency (MHz)	Program Method	Corner Accuracy (%)	Max. Pass Band Ripple (dB)	Max. Group Delay Variation (ns)	Gain (dBv)	Supply Current (mA)	Supply Voltage (V)	Package (mm)
SKY73201-364LF	1	28	SPI	1	0.5	35	0 or 6	32	3.3	QFN 32L 5 x 5
SKY73202-364LF	1	28	SPI	1	0.5	35	0 or 6	60	3.3	QFN 32L 5 x 5

HYBRID COUPLERS



90-Degree Hybrid Couplers

Part Number	Frequency (GHz)	Insertion Loss (dB) Typ.	Isolation (dB) Typ.	Input VSWR Typ.	Output VSWR Typ.	Amplitude Balance (Degrees) Typ.	Phase Balance (dB) Typ.	Package
HY86-12LF	0.82–0.90	0.40	30	1.15:1	1.15:1	±0.5	±1	SOIC-8
HY92-12LF	0.88–0.96	0.40	25	1.1:1	1.1:1	±0.5	±1	SOIC-8
HY17-12LF	1.71–1.88	0.50	20	1.2:1	1.2:1	±0.5	±1	SOIC-8
HY19-12LF	1.85–1.99	0.50	20	1.3:1	1.3:1	±0.5	±1	SOIC-8
HY22-73LF	2.10–2.30	0.55	23	1.2:1	1.2:1	±0.4	±2	SOT-6




 The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.

INFRASTRUCTURE RF SUBSYSTEMS






High Gain Linear PA Modules

Part Number	Frequency (MHz)	Voltage (V)	P _{OUT} (dBm)	Gain (dB)	Test Frequency	Quiescent Current (mA)	NF (dB)	OIP3 (dBm)	Package (mm)
 SKY65120	2110–2170	5	33.5	24.6	2140	447	8.4	48	20-pin MCM 6 x 6
 SKY65124	1960–1990	5	25.0	24	1960	550	6.0	45	20-pin MCM 6 x 6

Ultralinear PA Drivers

Part Number	Frequency (MHz)	Test Frequency (MHz)	Gain Typ. (dB)	V _{CC} (V)	P ₁ dB (dBm)	Package (mm)
 SKY65004-21	250–2700	1960	16 @ 5 V	3 or 5	25 @ 5 V	3-pin MCM 4 x 4
 SKY65008-21	250–2700	1960	20	3.3	21	3-pin MCM 4 x 4
SKY65009-70LF	250–2500	1960	12 @ 5 V	3 or 5	27 @ 5 V	4-pin SOT-89
 SKY65028-70LF	250–2700	1960	16 @ 5 V	3 or 5	25 @ 5 V	4-pin SOT-89

Dual Fractional-N Synthesizers

Part Number	Main Synthesizer Frequency (MHz)	Auxiliary Synthesizer Frequency (MHz)	Main Synthesizer Phase Noise (dBc/Hz)	Supply Voltage (V)	Package (mm)
 SKY72300-21	100–2100	100–500	-91 @ 1800 MHz	2.7–3.3	28-pin EP-TSSOP 9.7 x 6.4
 SKY74038-21	100–2600	1–800	-85 @ 2500 MHz	2.6–3.6	20-pin TSSOP 6.5 x 4.4
 SKY72300-362	100–2100	100–500	-91 @ 1800 MHz	2.7–3.3	24-pin QFN 4 x 4
 SKY72302-21	400–6100	100–1000	-80 @ 6100 MHz	2.7–3.3	28-pin EP-TSSOP 9.7 x 6.4
 SKY72301-22	100–1000	100–500	-96 @ 950 MHz	2.7–3.3	28-pin EP-TSSOP 9.7 x 6.4

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INFRASTRUCTURE RF SUBSYSTEMS

Single Fractional-N Synthesizers

Part Number	Operating Frequency (MHz)	Phase Noise dBc/Hz	Supply Voltage (V)	Package (mm)
SKY72310-362	100–2100	-91 @ 1800 MHz	2.7–3.3	24-pin QFN 4 x 4



High-Performance VCO/Synthesizers

Part Number	RF Output Frequency Range (MHz)	Output Power (dBm)	Phase Noise @ 200 kHz (dBc/Hz)	Phase Noise @ 800 kHz (dBc/Hz)	Phase Setting Time (µs)	Current Consumption (mA)	Supply Voltage (V)	Package (mm)
SKY73100	865–960	0	-127	-148	300	120	5	38-pin MCM 9 x 12
SKY73120	890–960	0	-124	-144	–	26	3	28-pin MCM 6 x 6
SKY73101	1800–1990	-10	-112	-139	300	120	5	38-pin MCM 9 x 12
SKY73103	1460–1665	-10	-121	-144	300	120	5	38-pin MCM 9 x 12
SKY73112	750–850	0	-132	-152	300	120	5	38-pin MCM 9 x 12



Direct Quadrature Demodulator and Direct Conversion Mixer

Part Number	RF Input Frequency Range (MHz)	IF Input Frequency Range (MHz)	Voltage (V)	IIP2 (dBm)	IIP3 (dBm)	Voltage Conversion Gain (dB)	Package (mm)
SKY73013	4900–5925	DC–100	3.3	28	0	24.5	16-pin QFN 4 x 4
SKY73012	400–3900	DC–250	3	60 @ 900MHz	29 @ 900MHz	1 @ 900MHz	32-pin RFLGA 5 x 5
SKY73009	400–3000	DC–250	3	60 @ 900MHz	27 @ 900MHz	2 @ 900MHz	32-pin RFLGA 5 x 5
SKY73001	2–3500	DC–100	3	67 @ 900MHz	27 @ 900MHz	-3.5 @ 900MHz	32-pin RFLGA 5 x 5



Direct Quadrature Modulator

Part Number	RF Output Frequency Range (MHz)	Broad Band Noise Floor (dBm/Hz)	ACPR (dBc)	Package (mm)
SKY73010-21	300–2500	<-153	72	16-pin RFLGA 4 x 4











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INTERA™ FRONT-END WLAN MODULES

Front-End Modules for WLAN

Part Number	Frequency (GHz)	Description	802.11 WLAN Standard	Typ. P _{OUT} @ 2.5% EVM (dBm)	Typ. Current @ V _{CC} = 3.3 V (mA)	Typ. Tx Gain (dB)	Architecture	Antenna Ports	Package (mm)
 SKY65225-11	2.4–2.5 4.9–5.85	WLAN 802.11n 2 x 2 MIMO Front-End Module	b,g,n a,n	19 16	190 180	24 25	Two Full Dual-Band Tx/Rx Chains	2	MCM 10 x 14 x 0.9
 SKY65227-11	2.4–2.5	WLAN 802.11n 2 x 2 MIMO Single-Band Front-End Module	b,g,n	19	190	25	Two Full 2 GHz Tx/Rx Chains	2	MCM 10 x 14 x 0.9
 SKY65228-11	4.9–5.85	WLAN 802.11n 2 x 2 MIMO Single-Band Front-End Module	a,n	16	180	25	Two Full 5 GHz Tx/Rx Chains	2	MCM 10 x 14 x 0.9
 SKY65230-11	2.4–2.5 4.9–5.85	WLAN 802.11n 2 x 2 MIMO Front-End Module with 3 Antenna Ports	b,g,n a,n	19 16	190 180	25 24	Two Full Dual-Band Tx/Rx Chains	3	MCM 10 x 14 x 0.9
 SKY65241-11	2.4–2.5 4.9–5.85	WLAN 801.11a,b,g Dual-Band Front-End Module	a b g	16 21 18	190 210 180	25 26 26	One Complete Dual-Band Tx/Rx Chain	1	Laminate 5 x 5 x 0.9
 SKY65243-11	2.4–2.5 4.9–5.85	WLAN 801.11a,b,g Dual-Band Front-End Module	a b g	16 21 18	190 210 180	25 26 26	One Complete Dual-Band Tx/Rx Chain	2	Laminate 5 x 5 x 0.9
 SKY65249-11	2.4–2.5	WLAN 802.11b,g Front-End Module	b g	21 18	210 180	26 26	One single-band Tx/Rx chain	2	Laminate 4 x 4 x 0.9
 SKY65256-11	2.4–2.5 4.9–5.85	WLAN 801.11a,b,g Dual-Band Front-End Module	a b g	16 21 18	190 210 180	25 26 26	One Complete Dual-Band Tx/Rx Chain	1	Laminate 5 x 6 x 0.9






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MIS SILICON CHIP CAPACITORS

Part Number	Capacitance Value (pF) ± 20%	Size (mils)
 SC00080912	0.8	12 x 12
 SC00120912	1.2	12 x 12
 SC00180912	1.8	12 x 12
 SC00260912	2.6	12 x 12
 SC00380912	3.8	12 x 12
 SC00560912	5.6	12 x 12
 SC00680912	6.8	12 x 12
 SC00821518	8.2	18 x 18
 SC01000710	10	10 x 10
 SC01500912	15	12 x 12
 SC02201518	22	18 x 18
 SC03301518	33	18 x 18
 SC04701518	47	18 x 18
 SC06801518	68	18 x 18
 SC10002430	100	30 x 30
 SC33303440	333	40 x 40
 SC50004450	500	50 x 50
 SC99906068	1000	68 x 68

MIXERS/DEMODULATORS

Diversity Mixers/Downconverters





Part Number	RF Frequency (MHz)	IF Frequency (MHz)	Gain (dB)	IIP3 (dBm)	OIP3 (dBm)	IP1 dB (dBm)	NF (dB)	Package (mm)
 SKY73020	700–1000	50–250	7.0	27	34.0	16.5	10.2	36-pin MCM 6 x 6
 SKY73025-11	2300–2700	50–500	8.6	23.5	32.1	12.3	9.8	36-pin MCM 6 x 6
 SKY73021	1700–2200	40–300	6.0	26	32.0	17.0	9.6	36-pin MCM 6 x 6
 SKY73023-11	1700–2200	40–300	9.7	25.7	35.4	13.6	9.5	36-pin MCM 6 x 6
 SKY73022-11	700–1000	40–300	9.4	25.3	34.7	13.3	9.0	36-pin MCM 6 x 6

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MIXERS/DEMODULATORS



Direct Quadrature Demodulator and Direct Conversion Mixer

Part Number	RF Input Frequency Range (MHz)	IF Input Frequency Range (MHz)	Voltage (V)	IIP2 (dBm)	IIP3 (dBm)	Voltage Conversion Gain (dB)	Package (mm)
SKY73013 	4900–5925	DC–100	3.3	28	0	24.5	16-pin QFN 4 x 4
SKY73012 	400–3900	DC–250	3.0	60 @ 900 MHz	29 @ 900 MHz	1 @ 900 MHz	32-pin RFLGA 5 x 5
SKY73009 	400–3000	DC–250	3.0	60 @ 900 MHz	27 @ 900 MHz	2 @ 900 MHz	32-pin RFLGA 5 x 5
SKY73001 	2–3500	DC–100	3.0	67 @ 900 MHz	27 @ 900 MHz	-3.5 @ 900 MHz	32-pin RFLGA 5 x 5

Single Channel Mixers

Part Number	RF Frequency (MHz)	IF Frequency (MHz)	Gain (dB)	IIP3 (dBm)	OIP3 (dBm)	IP1 dB (dBm)	NF (dB)	Package (mm)
SKY73035-11 	2300–2700	50–500	7.6	25.0	32.6	13.5	9.8	20-pin MCM 5 x 5
SKY73033 	1700–2200	40–300	8.5	25.0	33.5	14.0	9.5	20-pin MCM 5 x 5
SKY73070 	700–1000	40–300	9.5	27.0	36.5	13.3	8.3	20-pin MCM 5 x 5
SKY73032 	700–1000	40–300	9.5	27.0	36.5	13.3	8.3	20-pin MCM 5 x 5
SKY42068 	400–1000	50–250	2.5	36.0	38.5	17.0	9.5	20-pin QFN 5 x 5

Up/Downconversion Mixers


Part Number	RF Frequency (MHz)	IF Frequency (MHz)	Downconversion Insertion Loss (dB)	Downconversion IIP3 (dBm)	Upconversion Insertion loss (dB)	Upconversion IIP3 (dBm)	LO Injection (dB)	Package (mm)
SKY73062-11 	700–1000	50–300	7.5	32.6	7.5	26.1	High Side LO	20-pin MCM 5 x 5
SKY73069-11 	700–1000	50–300	7.0	31.0	7.5	30.5	High Side LO	20-pin MCM 5 x 5

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MODULATORS

Direct Quadrature Modulator

Part Number	RF Output Frequency Range (MHz)	Broad Band Noise Floor (dBm/Hz)	ACPR (dBc)	Package (mm)
SKY73010-21 	300–2500	<-153	72	16-pin RFLGA 4 x 4





PHASE SHIFTERS

Part Number	Frequency (MHz)	Description	Insertion Loss (dB) Max.	Phase Shift (Deg.) Min.	IP3 (dBm) Min.	Control Voltage Range (V)	Package (mm)
PS088-315 	700–1100	Voltage Controlled Phase Shifter	2.3	100	33	0–12	LGA
PS094-315 	700–1250	Voltage Controlled Phase Shifter	2.3	100	33	0–12	LGA
PS196-315 	1800–3000	Voltage Controlled Phase Shifter	2.3	100	33	0–12	LGA
PS214-315 	1700–2800	Voltage Controlled Phase Shifter	2.3	100	33	0–12	LGA

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PLLs/SYNTHESIZERS/VCOs






High-Performance VCOs/Synthesizers

Part Number	RF Output Frequency Range (MHz)	Output Power (dBm)	Phase Noise @ 200 kHz (dBc/Hz)	Phase Noise @ 800 kHz (dBc/Hz)	Phase Settling Time (μ s)	Current Consumption (mA)	Supply Voltage (V)	Package (mm)
 SKY73112	750–850	0	-132	-152	300	120	5	38-pin MCM 9 x 12
 SKY73100	865–960	0	-127	-148	300	120	5	38-pin MCM 9 x 12
 SKY73103	1460–1665	-10	-121	-144	300	120	5	38-pin MCM 9 x 12
 SKY73101	1930–1990	-10	-112	-139	300	120	5	38-pin MCM 9 x 12

Single Fractional-N Synthesizers

Part Number	Operating Frequency (MHz)	Phase Noise (dBc/Hz)	Supply Voltage (V)	Package (mm)
SKY72310-362LF	100–2100	-91 @ 1800 MHz	2.7–3.3	24-pin QFN 4x4

Dual Fractional-N Frequency Synthesizers/PLLs

Part Number	Main Synthesizer Frequency (MHz)	Auxiliary Synthesizer Frequency (MHz)	Main Synthesizer Phase Noise (dBc/Hz)	Supply Voltage (V)	Package (mm)
 SKY72300-21	100–2100	100–500	-91 @ 1800 MHz	2.7–3.3	28-pin EP-TSSOP 9.7 x 6.4
 SKY74038-21	100–2600	1–800	-85 @ 2500 MHz	2.6–3.6	20-pin TSSOP 6.5 x 4.4
 SKY72300-362	100–2100	100–500	-91 @ 1800 MHz	2.7–3.3	24-pin QFN 4 x 4
 SKY72302-21	400–6100	100–1000	-80 @ 6100 MHz	2.7–3.3	28-pin EP-TSSOP 9.7 x 6.4
 SKY72301-22	100–1000	100–500	-96 @ 950 MHz	2.7–3.3	28-pin EP-TSSOP 9.7 x 6.4

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POWER DIVIDER/COMBINERS

Two-Way


Part Number	Frequency (GHz)	Insertion Loss Less 3 dB Split Typ.	Isolation (dB) Typ.	Input VSWR Typ.	Output VSWR Typ.	Amplitude Balance (dB)	Phase Balance (Deg.) Typ.	Total Max. Power w/2.0:1 All Ports	Package
PD09-73LF	0.81–0.96	0.40	25	1.2:1	1.3:1	±0.1	±1.0	1.5 W	SOT-6
PD15-73LF	1.42–1.66	0.40	23	1.2:1	1.2:1	±0.1	±1.0	1.5 W	SOT-6
PD16-73LF	1.42–1.66	0.40	23	1.2:1	1.2:1	±0.1	±1.0	1.5 W	SOT-6
PD18-73LF	1.71–1.99	0.40	23	1.3:1	1.2:1	±0.1	±1.0	1.5 W	SOT-6
PD19-73LF	1.71–1.99	0.55	25	1.3:1	1.2:1	±0.1	±1.0	1.5 W	SOT-6
PD22-73LF	2.10–2.30	0.55	18	1.5:1	1.1:1	±0.1	±1.0	1.5 W	SOT-6

Four-Way

Part Number	Frequency (GHz)	Insertion Loss Less 6 dB Split Typ.	Isolation (dB) Typ.	Input VSWR Typ.	Output VSWR Typ.	Amplitude Balance (dB)	Phase Balance (Deg.) Typ.	Total Max. Power w/2.0:1 All Ports	Package
PD4W09-12LF	0.81–0.96	1.3	23	1.2:1	1.2:1	±0.4	±6	1.5 W	SOIC-8
PD4W09-59LF	0.81–0.96	1.3	23	1.2:1	1.2:1	±0.4	±6	1.5 W	MSOP-8
PD4W18-12LF	1.71–1.99	0.7	25	1.6:1	1.2:1	±0.3	±5	1.5 W	SOIC-8
PD4W18-59LF	1.71–1.99	0.7	25	1.3:1	1.3:1	±0.3	±5	1.5 W	MSOP-8

RECEIVERS

CDMA

Part Number	Description	Package (mm)
SKY74693	Receiver for CDMA, AMPS, PCS, and GPS	48-pin RFLGA 7 x 7
		

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SWITCHES

Low Frequency—6 GHz Plastic Packaged and Chip—Control FET and SPST

Part Number	Frequency ⁽¹⁾ (GHz)	Typ. IL Series (dB)	Typ. IL Shunt (dB)	Typ. Isolation Series (dB)	Typ. Isolation Shunt (dB)	Control Bits	Package (mm)
AF002C1-39LF	LF-2.5	0.50	0.10	25	12	1	SOT-23
AF002C4-39LF	LF-2.5	0.25	0.25	6	9	1	SOT-23
SKY13282-334	LF-2.5	0.35	0.40	6	7	1	LGA-6 1.5 x 1.2



Part Number	Frequency ⁽¹⁾ (GHz)	Typ. IL (dB)	Typ Isol. (dB)	Typ. IIP3 (dBm)	Typ. IP ₁ dB (dBm)	Absorptive/ Reflective	Package
AS130-73LF	0-2.5	0.75-1.0	53-24	44	25	A/R	SOT-6
AS156-73LF	0.5-2.5	0.65-0.75	45-15	43	18	R	SOT-6
AS165-59LF	0.5-2.5	0.7-1.2	45-38	45	28	A/R	MSOP-8

Low Frequency—6 GHz Plastic Packaged and Chip—SPDT

Part Number	Frequency ⁽¹⁾ (GHz)	Typ. IL (dB)	Typ Isol. (dB)	Typ. IIP3 (dBm)	Typ. IP ₁ dB (dBm)	Absorptive/ Reflective	Package (mm)
AS188-92LF	LF-2.0	0.35-0.55	26-17	50	33	R	SC-88
AS002R2-12LF	LF-2.5	0.4-0.8	42-20	46	24	R	SOIC-8
AS169-73LF	LF-2.5	0.3-0.4	25-24	48	30	R	SOT-6
AS183-92LF	LF-2.5	0.3-0.55	20-13	48	30	R	SC-88
AS216-339LF	LF-2.5	0.7-1.0	34-20	63	40	R	SOIC-8EP
AS338-12LF	LF-2.5	0.5-1.2	46-26	46	28	R	SOIC-8
AW002R2-12LF	LF-2.5	0.7-1.0	37-22	63	35	R	SOIC-8
SKY13270-92LF	0.1-2.5	0.3-0.55	30-17		37 for 0.1 dB	R	SC-88
SKY13278-313LF	0.1-2.5	0.4-0.55	32-18	-	40 for 0.1 dB	R	QFN-6 2 x 3
AS193-73LF	0.1-2.5	0.3-0.55	30-17	-	37	R	SOT-6
SKY13290-313LF	0.5-2.5	0.4-0.55	26-18	-	40.5 for 0.1 dB	R	QFN-6 2 x 3
AS176-59LF	LF-3.0	0.7-0.9	55-27	41	-	R	MSOP-8
AS177-86LF	LF-3.0	0.7-0.9	55-40	41	21	R	MSOP-10
AS179-92LF	LF-3.0	0.3-0.4	25-23	48	30	R	SC-88
AS179-000	0.3-3.0	0.3-0.35	25-22	48	30	R	Chip
AS213-92LF	0.1-3.0	0.3-0.5	27-19	40	27	R	SC-88
AS214-92LF	0.1-3.0	0.3-0.4	30-25	40	20	R	SC-88
AS222-92LF	0.1-3.0	0.35-0.5	27-18	44	20	R	SC-88

1. LF = low frequency 300 kHz.




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SWITCHES

Low Frequency—6 GHz Plastic Packaged and Chip—SPDT (Continued)

Part Number	Frequency ⁽¹⁾ (GHz)	Typ. IL (dB)	Typ Isol. (dB)	Typ. IIP3 (dBm)	Typ. IP ₁ dB (dBm)	Absorptive/ Reflective	Package (mm)
AS215-92LF	0.5–3.0	0.5–0.75	28–20	40	20	R	SC-88
 AS211-334	LF–4.0	0.3–0.60	26–22	50	34	R	LGA-6 1.5 x 1.2
AS186-302LF	LF–4.0	0.8–1.00	55–40	27	17	A	MSOP-8
AS191-73LF	0.1–4.0	0.5–0.70	27–18	–	35	R	SOT-6
SKY13299-321LF	0.1–4.0	0.3–0.65	30–29	–	38.5 for 0.1 dB	R	QFN 12-Lead 3 x 3
AS196-307LF	LF–6.0	0.9–1.60	55–30	30	17	A	LPCC 4 x 4
AS229-350LF	LF–6.0	0.8–1.80	55–25	46	24	A	QFN-16 3 x 3
AS230-348LF	LF–6.0	0.8–1.20	30–15	63	40	R	QFN-16 3 x 3
SKY13274-349LF	LF–6.0	0.5–0.80	25–17	46	25 for 0.1 dB	A/R	QFN-8
AS225-313LF	0.1–6.0	0.5–0.60	21–20	52	30	R	QFN-6
 SKY13268-344LF	0.3–3.0	0.3–0.40	25–23	43	30	R	SOT-666
SKY13286-359LF	0.1–6.0	0.8–1.50	62–42	46	30	A	QFN-16 4 x 4
 SKY13276-334	0.1–6.0	0.6–0.70	21–20	52	30	R	LGA-6 1.5 x 1.2
AS200-313LF	5.0–6.0	1.3	30	–	33	R	QFN-6 2 x 3
SKY13306-313LF	0.1–6.0	0.4–0.55	26–18	–	40.5 for 0.1 dB	R	QFN-6 2 x 3

Low Frequency—6 GHz Plastic Packaged and Chip—Multiport

Part Number	Frequency ⁽¹⁾ (GHz)	Description (Absorptive/ Reflective)	Typ. IL (dB)	Typ Isol. (dB)	Typ. IIP3 (dBm)	Typ. IP ₁ dB (dBm)	Package (mm)
AS172-73LF	LF–2.0	DPDT (R)	0.3–0.95	25–13	50	34	SOT-6
AS218-321LF	LF–6.0	DPDT (R)	1.2–1.6	28–19	47	33	QFN-12
AS236-321LF	LF–6.0	DPDT (R)	0.95–1.15	22–15	56	34	QFN-12
SKY13267-321LF	2.4–6.0	DPDT (R)	0.7–0.9	32–20	49	–	QFN-12
AS202-321LF	LF–2.0	SP3T (R)	0.55–0.8	28–25	–	–	QFN-12
AS227-321LF	LF–2.0	SP3T (R)	0.45–0.7	32–20	63	–	QFN-12
SKY13277-355LF	0.5–2.5	SP3T (A)	0.9–1.2	62–55	43	30	QFN 5 x 5
AS219-321LF	0.1–2.6	SP3T (R)	0.35–0.8	26–14	–	35	QFN-12
SKY13251-349LF	LF–3.0	SP3T (R)	0.35–0.6	29–15	46	25	QFN-8
SKY13296-340LF	0.02–2.5	SP4T (A)	0.4–0.7	40–26	40	18	QFN-20 4 x 4
AS221-306LF	0.1–2.5	SP4T (R)	0.6–1.1	34–22	55	–	QFN-16 4 x 4
AS204-80LF	LF–3.0	SP4T (A)	0.4–0.9	45–25	40	26	SSOP-16
AS195-306LF	0.1–2.0	SP5T (R)	0.5–1.0	35–23	55	–	MLF-16
SKY13309-370LF	LF–3.0	–	0.5–0.6	25	–	–	QFN 2 x 2 x 0.6

1. LF = low frequency 300 kHz.

Innovation to Go™ Select products (indicated in blue/bold) are now available for purchase online.

 Skyworks Green™ products are lead (Pb)-free, Restriction of Hazardous Substances (RoHS)-compliant, conform to the EIA/EICTA/JEITA Joint Industry Guide (JIG) Level A guidelines, and are free from antimony trioxide, and brominated flame retardants.

 The (Pb)-free symbol or “LF” in the part number denotes lead (Pb)-free, RoHS-compliant package.

SWITCHES

Low Frequency—2.5 GHz Plastic Packaged 4 x 2—LNB/DBS Switch Matrix

Part Number	Frequency (GHz)	Typ. IL (dB)	Typ Isol. (dB)	Typ. IP ₁ dB (dBm)	Absorptive/Reflective	Package (mm)
SKY13264-340LF	0.25–2.15	7.5–8.5	40–33	15	R	QFN-20 4 x 4
SKY13272-340LF	0.25–2.15	7.5–8.5	40–31	15	A	QFN-20 4 x 4
SKY13292-365LF	0.25–2.15	7.5–9.0	40–30	15	R	QFN-20 4 x 4

Innovation to Go™ Select products (indicated in blue/bold) are now available for purchase online.

 The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.

TECHNICAL CERAMICS

Ceramic Coaxial Resonators*

The various profiles, materials, and types available for the Skyworks coaxial TEM mode resonators are summarized in the following charts. You have a choice of two types, four materials, and seven profiles. This range of component variables should meet most circuit design requirements. While the component is manufactured to frequency, a formula is given so that the approximate length can be determined. The selected resonant frequency is available with two standard frequency

tolerances of $\pm 0.5\%$ and $\pm 1.0\%$. The minimum tolerance is ± 2 MHz. Please note that the ordered value of f_0 will be set according to our measurement procedure. The f_0 in your circuit may vary due to stray reactance. This offset can be corrected by changing the ordered value of f_0 .



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Recommended Frequencies 1000 Series ($\epsilon_r = 10.5 \pm 0.5$, $T_F = 0 \pm 10$)

Type	Profile	Recommended Range f (MHz)	Nominal Length (in.) ± 0.030 in.	Nominal Length Range (in.)	Characteristic Impedance (Ω)
$\lambda/4$ Quarter Wave Length	HP	1150–800	$L = 911/f_0$ (MHz)	0.506–0.792	25.3
	EP	1150–2500		0.364–0.792	22.5
	SP	1150–3100		0.294–0.792	18.3
	LS	1150–4600		0.198–0.792	18.4
	LP	1150–4100		0.222–0.792	27.4
	MP	1150–5100		0.179–0.792	25.7
	SM	1150–5100		0.179–0.792	18.4
$\lambda/2$ Half Wave Length	HP	2300–3400	$L = 1821/f_0$ (MHz)	0.536–0.792	25.3
	EP	2300–5000		0.364–0.792	22.5
	SP	2300–6000		0.304–0.792	18.3
	LS	2300–6000		0.304–0.792	18.4
	LP	2300–6000		0.304–0.792	27.4
	MP	2300–6000		0.304–0.792	25.7
	SM	2300–6000		0.304–0.792	18.4

Recommended Frequencies 2000 Series ($\epsilon_r = 20.6 \pm 1$, $T_F = 0 \pm 10$)

Type	Profile	Recommended Range f (MHz)	Nominal Length (in.) ± 0.030 in.	Nominal Length Range (in.)	Characteristic Impedance (Ω)
$\lambda/4$ Quarter Wave Length	HP	800–1200	$L = 650/f_0$ (MHz)	0.542–0.813	18.1
	EP	800–1700		0.382–0.813	16.1
	SP	800–2200		0.296–0.813	13.1
	LS	800–3200		0.203–0.813	13.1
	LP	800–2900		0.224–0.813	19.6
	MP	800–3600		0.181–0.813	18.4
	SM	800–3600		0.181–0.813	13.1
$\lambda/2$ Half Wave Length	HP	1600–2500	$L = 1300/f_0$ (MHz)	0.520–0.813	18.1
	EP	1600–3500		0.372–0.813	16.1
	SP	1600–4500		0.289–0.813	13.1
	LS	1600–6000		0.217–0.813	13.1
	LP	1600–6000		0.217–0.813	19.6
	MP	1600–6000		0.217–0.813	18.4
	SM	1600–6000		0.217–0.813	13.1

*These products are produced by Trans-Tech (a wholly owned subsidiary of Skyworks Solutions, Inc.)

TECHNICAL CERAMICS
Ceramic Coaxial Resonators (Continued)

Recommended Frequencies 8800 Series ($\epsilon_r = 39 \pm 1.5$, $T_F = 4 \pm 2$)

Type	Profile	Recommended Range f (MHz)	Nominal Length (in.) ± 0.030 in.	Nominal Length Range (in.)	Characteristic Impedance (Ω)
$\lambda/4$ Quarter Wave Length	HP	600–900	$L = 472/f_0$ (MHz)	0.525–0.787	13.1
	EP	600–1200		0.394–0.787	11.7
	SP	600–1600		0.295–0.787	9.5
	LS	600–2300		0.205–0.787	9.5
	LP	600–2100		0.225–0.787	14.2
	MP	600–2600		0.182–0.787	13.3
	SM	600–2600		0.182–0.787	9.5
$\lambda/2$ Half Wave Length	HP	1200–1900	$L = 945/f_0$ (MHz)	0.497–0.787	13.1
	EP	1200–2500		0.378–0.787	11.7
	SP	1200–3200		0.295–0.787	9.5
	LS	1200–4700		0.201–0.787	9.5
	LP	1200–4300		0.220–0.787	14.2
	MP	1200–5200		0.182–0.787	13.3
	SM	1200–5200		0.182–0.787	9.5

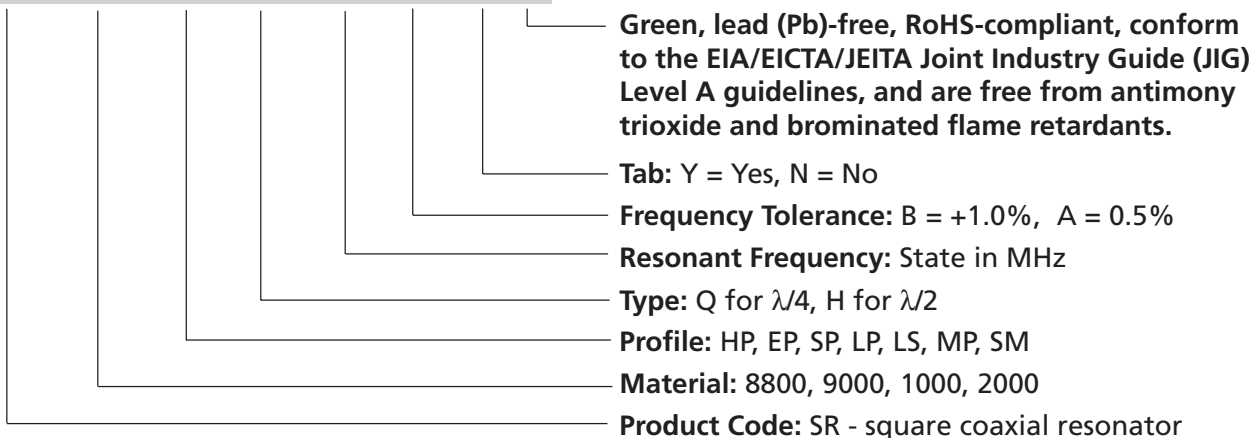
Recommended Frequencies 9000 Series ($\epsilon_r = 90 \pm 3$, $T_F = 0 \pm 10$)

Type	Profile	Recommended Range f (MHz)	Nominal Length (in.) ± 0.030 in.	Nominal Length Range (in.)	Characteristic Impedance (Ω)
$\lambda/4$ Quarter Wave Length	HP	400–600	$L = 311/f_0$ (MHz)	0.518–0.778	8.6
	EP	300–800		0.389–1.037	7.7
	SP	300–1000		0.311–1.037	6.3
	LS	300–1500		0.207–1.037	6.3
	LP	300–1400		0.222–1.037	9.4
	MP	400–1700		0.183–0.778	8.8
	SM	400–1700		0.183–0.778	6.3
$\lambda/2$ Half Wave Length	HP	800–1200	$L = 622/f_0$ (MHz)	0.518–0.778	8.6
	EP	800–1700		0.366–0.778	7.7
	SP	800–2100		0.296–0.778	6.3
	LS	800–3100		0.201–0.778	6.3
	LP	800–2800		0.222–0.778	9.4
	MP	800–3400		0.183–0.778	8.8
	SM	800–3400		0.183–0.778	6.3

COAXIAL RESONATOR ORDER INFORMATION

An Order Example

SR 8800 SP Q 1300 B Y E



TECHNICAL CERAMICS

Ceramic Coaxial Inductors*

Skyworks coaxial inductors are most frequently used in the resonant circuit of VCOs (Voltage-Controlled Oscillators), where a varactor provides the tuning capability. The designer is usually confronted with trade-offs between high Q for best phase noise and component size versus circuit board real estate. An algorithm for selecting the correct Skyworks part follows. In addition, Skyworks COAX Program can provide valuable assistance for determining the correct Skyworks part. Application notes and references give example circuits, basic principles and some helpful hints.

While there is no physical distinction between a coaxial resonator and a coaxial inductor, the selection of an inductor for a VCO begins by first knowing (from analysis or experiment) the equivalent inductance that the active circuit, including the varactor, must see. In general, the VCO active circuit loads the “resonator,” lowering the resonator’s self-resonant frequency (SRF). The situation is analogous to externally capacitively loading a discrete parallel resonant L-C circuit.

While there is an approximate equivalent L-C circuit for the coaxial resonator close to resonance, this model has limited application.

The coaxial resonators and inductors are more accurately modeled as a transmission line. Our application notes and references delve further into this topic.

Values of inductance that can be achieved depend upon the separation between the VCO frequency and the SRF of the coaxial line element. Values less than 1 nH are not practical, since the metal connection tab itself has an equivalent inductance of this order.

In our experience, equivalent inductances in the range of 3–20 nH have been popular among designers of VCOs for wireless equipment.

Call for availability, utilize the Inductor Selection Guide, use the COAX Program, or refer to the application notes for assistance with ordering the correct part.



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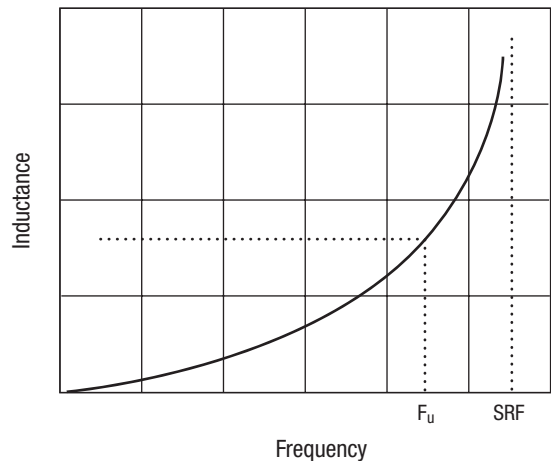


Figure 1. Frequency of Use vs. Inductance

COAXIAL INDUCTOR ORDER INFORMATION

An Order Example

SI 8800 LP Q 0450 Y 6.3 E

- Green, lead (Pb)-free, RoHS-compliant, conform to the EIA/EICTA/JEITA Joint Industry Guide (JIG) Level A guidelines, and are free from antimony trioxide and brominated flame retardants.**
- Inductance:** (see Figure 1) Available in 0.01 nH increments
- Tab:** Y = Yes, N = No
- Frequency of Use (F_u):** (see Figure 1 for definition)
- Type:** Q for $\lambda/4$ standard
- Profile:** HP, EP, SP, LP, LS, MP, SM
- Material:** 1000, 2000, 8800, 9000
- Product Code:** SI - square coaxial inductor

*These products are produced by Trans-Tech (a wholly owned subsidiary of Skyworks Solutions, Inc.)

TECHNICAL CERAMICS

Ceramic Coaxial Inductors (Continued)

Coax Line Properties vs. Profile and Material

Profile	1000	2000	8800	9000	Tab Inductors
HP	25.3 Ω	18.1 Ω	13.1 Ω	8.6 Ω	1.8 nH
EP	22.5 Ω	16.1 Ω	11.7 Ω	7.7 Ω	1.0 nH
SP	18.3 Ω	13.1 Ω	9.5 Ω	6.3 Ω	1.0 nH
LS	18.4 Ω	13.1 Ω	9.5 Ω	6.3 Ω	0.9 nH
LP	27.4 Ω	19.6 Ω	14.2 Ω	9.4 Ω	1.0 nH
SP	25.7 Ω	18.4 Ω	13.3 Ω	8.8 Ω	0.6 nH
SM	18.4 Ω	13.1 Ω	9.5 Ω	6.3 Ω	0.6 nH

Wavelength (λ_g) in Dielectric

Material	ε _r	Wavelength Formula for λ _g (inches)
1000	10.5 ± 0.5	3642/f ₀
2000	20.6 ± 1.0	2601/f ₀
8800	39.0 ± 1.5	1890/f ₀
9000	90.0 ± 3.0	1244/f ₀

Figure 2.

Inductor Selection Guide

- 1) Select one of Skyworks four dielectric materials.
- 2) Determine the VCO's operating frequency (f_{VCO}).
- 3) Determine the desired inductance or circuit impedance (Z_{in}).
Note: Convert inductances to impedances by using:
 $Z_{in} = 2 * \xi * f_{VCO} * L_{in} \Omega$
- 4) Calculate the effect of the tab. Tab inductances are given in Figure 9. Use the formula
 $(Z_{in} = 2 * \xi * f_{VCO} * L_{tab} \Omega)$
to convert the tab inductances to impedances.
- 5) Determine the input impedance by subtracting the effect of the tab using: $Z_{input} = Z_{in} - Z_{tab}$
- 6) Calculate the wavelength (λ_g) of the part in the dielectric (see Figure 2 for appropriate formula).
- 7) Determine the characteristic impedance (Z₀) of the part (see Figure 3)
- 8) Calculate the physical length of the part using the formula: $1 = (\lambda_g / 2 * \xi) \tan^{-1} (Z_{input} / Z_0)$ inches
- 9) Determine the SRF of this part using:
 $SRF = (\lambda_g * f_{VCO}) / (4 * 1)$ MHz
- 10) Check the Recommended Frequency Chart for the appropriate material to ensure a valid part.

Measurement Description of Q, f₀ and L

Evaluation of Q (quality factor) and f₀ (resonant frequency) of coaxial components is made with a one-port reflection measurement on a network analyzer. The probe is moved into the inner diameter (ID) of the device until the input resistance of the device matches the terminal resistance of the network analyzer. This is indicated by a 50 Ω circle on the Smith Chart display and is known as "critical" coupling. The point on this circle where the response is purely resistive (capacitance reactance equals inductive reactance) is the point of resonance and will be defined by a complex impedance of $Z = 50 + j \Omega$. The Q is computed by observing the frequency span between VSWR-2.616 ($Z = 50 \pm j50 \Omega$) on either side of f₀. The Q is defined as f₀/Δf.

The inductance parameter (L) is measured with an APC-7 mm connector mounted flush with a conducting plane and a full one-port calibration (open, short, broadband 50 Ω load) is performed. The inductor is then clamped into place with the tab touching the inner conductor and the metallized body touching the grounding plane. The inductance (L) is measured at the frequency of use. The impedance vector on the Smith Chart of an ANA gives the necessary information where $Z = R + jwL$.

Characteristic Impedance

As shown in Figure 3, the characteristic impedance (Z₀) of the coaxial TEM mode components is a function of the profile dimensions and the dielectric constant of the material. Z₀ is reduced over its air line value by the square root of the dielectric constant of the material. At one-eighth wavelength, the short-circuit line exhibits an inductive reactance while the open-circuit line exhibits a capacitive reactance equal in magnitude to Z₀.

$$Z_0 = \text{characteristic impedance} = \frac{60}{\sqrt{\epsilon_R}} \ln \left(1.079 \frac{w}{d} \right)$$

where:

w = width of resonator

d = diameter of inner conductor

ε_r = dielectric constant

Profile	1000	2000	8800	9000
HP	25.3 Ω	18.1 Ω	13.1 Ω	8.6 Ω
EP	22.5 Ω	16.1 Ω	11.7 Ω	7.7 Ω
SP	18.3 Ω	13.1 Ω	9.5 Ω	6.3 Ω
LS	18.4 Ω	13.1 Ω	9.5 Ω	6.3 Ω
LP	27.4 Ω	19.6 Ω	14.2 Ω	9.4 Ω
MP	25.7 Ω	18.4 Ω	13.3 Ω	8.8 Ω
SM	18.4 Ω	13.1 Ω	9.5 Ω	6.3 Ω

Figure 3.

TECHNICAL CERAMICS

Ceramic Coaxial Inductors (Continued)

Soldering Conditions

Skyworks coaxial components are compatible with standard surface mount reflow and wave soldering methods. The HP profile components may require mechanical support mounting because of the larger size. Consult the factory for details.

Use silver-bearing solder such as SN62 (62Sn-36Pb-2Ag). Skyworks tabs are pretinned to improve solderability. Additional attaching methods include hot air gun, infrared source, soldering iron, hot plate, vapor phase, and others. The coaxial component body is a ceramic and subject to thermal shock if heated or cooled too rapidly. Figure 4 is the recommended soldering profile, not to exceed 230 °C for a duration of about 10 seconds. Repeatable results can be best achieved with air cooling only, not quenching.

Figure 5 indicates the maximum tolerance of the component planarity with respect to the datum plane.

Equation (1) Input Impedance f_0

$$Z_{input} = fZ_0 \tan\left(\frac{2f_0}{4SRF}\right)$$

where: f_0 = use frequency

Equation (2) Resonant Frequency

$$l = \frac{c}{4SRF\sqrt{\epsilon_r}}$$

where: c = speed of light ϵ_r = 39.08800 material
 90.09000 material
 10.51000 material
 20.62000 material

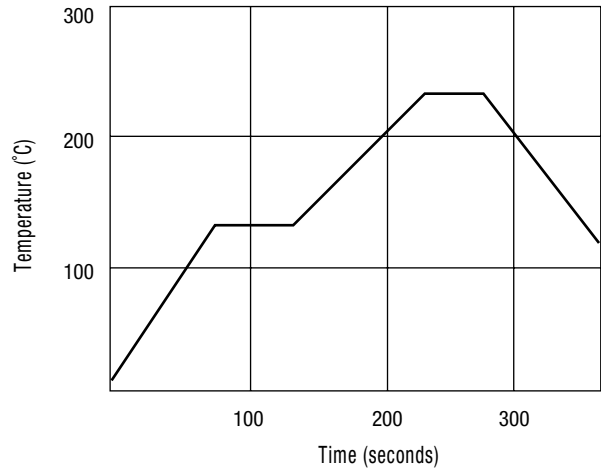


Figure 4. Soldering Profile

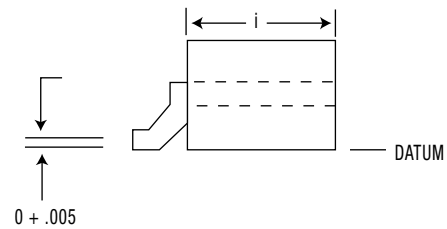


Figure 5. Surface Mount Tolerance for Components with Tabs

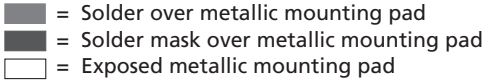
TECHNICAL CERAMICS

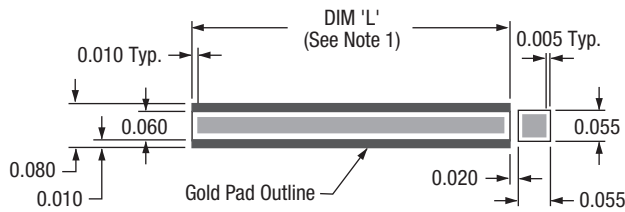
Ceramic Coaxial Inductors (Continued)

Packaging

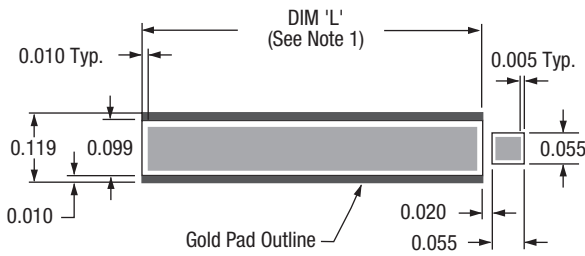
Tape and reel packaging is available. Consult the factory for details.

Notes: 1. Dimension "L" is length which depends on frequency.

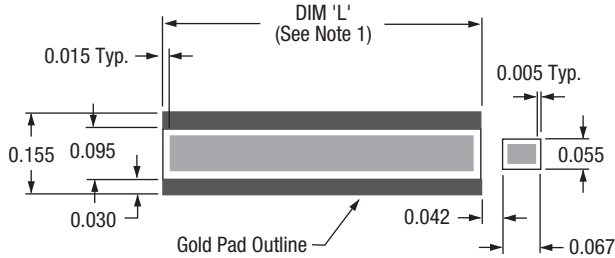
Key:

 = Solder over metallic mounting pad
 = Solder mask over metallic mounting pad
 = Exposed metallic mounting pad



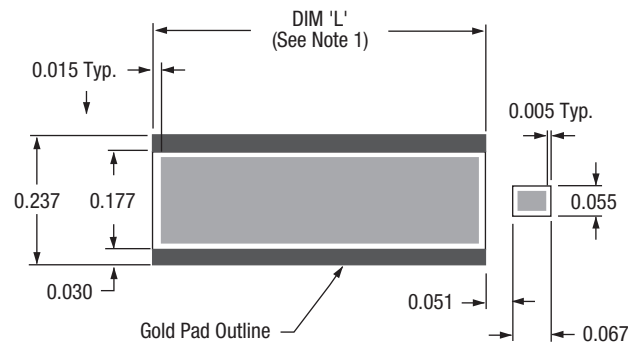
2 mm (5 m) Coaxial Resonator Footpad Dimensions



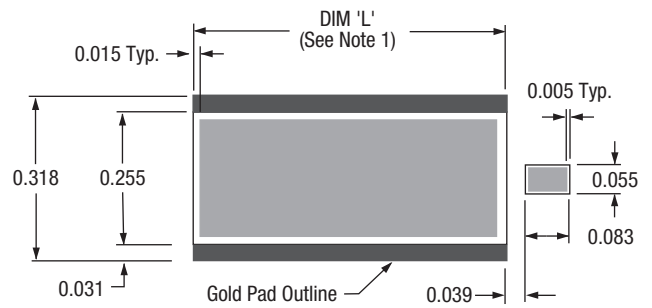
3 mm (MP) Coaxial Resonator Footpad Dimensions



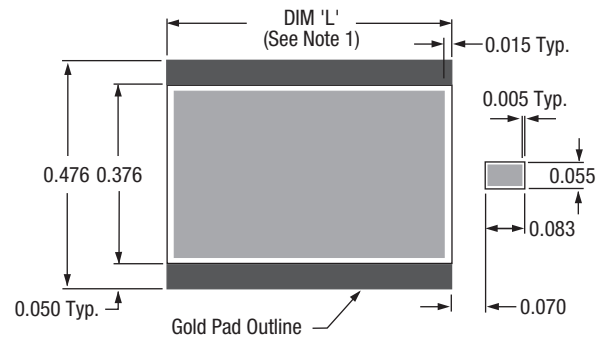
4 mm (LP/LS) Coaxial Resonator Footpad Dimensions



6 mm (SP) Coaxial Resonator Footpad Dimensions



8 mm (EP) Coaxial Resonator Footpad Dimensions



12 mm (HP) Coaxial Resonator Footpad Dimensions

TECHNICAL CERAMICS

Standard Filters/Diplexers*

This list contains Skyworks most popular filter and diplexer designs. A variety of footprints and configurations are available for application-specific needs. Please contact the factory or your local representative with your specifications or for more information on any of these

designs. Skyworks maintains a list of over 700 active filters and diplexers. We welcome every opportunity to assist in the selection or creation of a filter or diplexer that will meet your specifications.

CATV

Part Number	Filter Type	Size/Poles	Center Frequency (MHz)	Bandwidth (MHz)	Insertion Loss (dB)	Package (mm)
TT3P2-1068P0-3507	Band Pass	3 mm/2 pole	1068	35	0.7	PCB SMT
TT4P2-1013P2-2020	Band Pass	4 mm/2 pole	1013	20	2.0	PCB SMT
TT4P2-1082.5P2-0720	Band Pass	4 mm/2 pole	1082.5	07	2.0	PCB SMT
TT4P2-1082P2-0620	Band Pass	4 mm/2 pole	1082	06	2.0	PCB SMT
TT4P2-1090P2-0610	Band Pass	4 mm/2 pole	1090	06	1.0	PCB SMT
TT4P3-1030P2-1535	Band Pass	4 mm/3 pole	1030	15	3.5	PCB SMT
TT4P3-1067P2-4420	Band Pass	4 mm/3 pole	1067	44	2.0	PCB SMT
TT6P4-1080P4-7015	Band Pass	6 mm/4 pole	1080	70	1.5	PCB SMT
TT6P4-1090P2-1036	Band Pass	6 mm/4 pole	1090	10	3.6	PCB SMT

WCS

Part Number	Filter Type	Size/Poles	Center Frequency (MHz)	Bandwidth (MHz)	Insertion Loss (dB)	Package (mm)
TT6P6-0750P0-5017	Band Pass	6 mm/6 pole	0750	50	1.7	PCB SMT
TT6P5-0765P0-11225	Band Pass	6 mm/5 pole	0765	112	2.5	PCB SMT
TT6P2-0770T-1215	Band Pass	6 mm/2 pole	0770	12	1.5	PCB SMT
TT6P3-0770T-1225	Band Pass	6 mm/3 pole	0770	12	2.5	PCB SMT
TT6P3-0770T-2020	Band Pass	6 mm/3 pole	0770	20	2.0	PCB SMT

MDS

Part Number	Filter Type	Size/Poles	Center Frequency (MHz)	Bandwidth (MHz)	Insertion Loss (dB)	Package (mm)
TT4P3-2120P2-6020	Band Pass	4 mm/3 pole	2120	60	2.0	PCB SMT
TT4P6-2122P0-2835	Band Pass	4 mm/6 pole	2122	28	3.5	PCB SMT
TT6P4-2158P2-1422	Band Pass	6 mm/4 pole	2158	14	2.2	PCB SMT
TT6P6-2500P3-3635	Band Pass	6 mm/6 pole	2500	36	3.5	PCB SMT

*These products are produced by Trans-Tech (a wholly owned subsidiary of Skyworks Solutions, Inc.)

TECHNICAL CERAMICS

Standard Filters/Diplexers* (Continued)

ISM

Part Number	Filter Type	Size/Poles	Center Frequency (MHz)	Bandwidth (MHz)	Insertion Loss (dB)	Package (mm)
TT4P2-0915P2-2620	Band Pass	4 mm/2 pole	0915	26	2.0	PCB SMT
TT6P2-0902F-2518	Band Pass	6 mm/2 pole	0902	25	1.8	PCB SMT
TT6P2-0915T-2518	Band Pass	6 mm/2 pole	0915	25	1.8	PCB SMT
TT6P3-0902T-2520	Band Pass	6 mm/3 pole	0902	25	2.0	PCB SMT
TT6P3-0915T-2520	Band Pass	6 mm/3 pole	0915	25	2.0	PCB SMT
TT6P3-0917F-1425	Band Pass	6 mm/3 pole	0917	14	2.5	PCB SMT
TT3P3-2400P1-1030	Band Pass	3 mm/3 pole	2400	10	3.0	PCB SMT
TT3P3-2450P1-1445	Band Pass	3 mm/3 pole	2450	14	4.5	PCB SMT
TT6P3-2467P0-3330	Band Pass	6 mm/3 pole	2467	33	3.0	PCB SMT

Cell, PCS, DCS, UMTS

Part Number	Filter Type	Size/Poles	Center Frequency (MHz)	Bandwidth (MHz)	Insertion Loss (dB)	Package (mm)
TT3P2-1880P0-6010	Band Pass	3 mm/2 pole	1880	60	1.0	PCB SMT
TT3P3-0881.5P2-2530	Band Pass	3 mm/3 pole	0881.5	25	3.0	PCB SMT
TT3P3-1880P0-6022	Band Pass	3 mm/3 pole	1880	60	2.2	PCB SMT
TT3P3-1960P0-6022	Band Pass	3 mm/3 pole	1960	60	2.2	PCB SMT
TT3P3-1960P2-6030	Band Pass	3 mm/3 pole	1960	60	3.0	PCB SMT
TT3P4-0836.5P2-2525	Band Pass	3 mm/4 pole	0836.5	25	2.5	PCB SMT
TT3P4-0881.5P2-2525	Band Pass	3 mm/4 pole	0881.5	25	2.5	PCB SMT
TT3P4-1880P2-6020	Band Pass	3 mm/4 pole	1880	60	2.0	PCB SMT
TT3P4-1880P2-6030	Band Pass	3 mm/4 pole	1880	60	3.0	PCB SMT
TT4P3-0863P0-0585	Band Pass	4 mm/3 pole	0863	05	8.5	PCB SMT
TT4P3-2180P1-2540	Band Pass	4 mm/3 pole	2180	25	4.0	PCB SMT
TT4P4-1880P0-6216	Band Pass	4 mm/4 pole	1880	62	1.6	PCB SMT
TT4P4-1960P0-6216	Band Pass	4 mm/4 pole	1960	62	1.6	PCB SMT
TT4P5-2240P2-1032	Band Pass	4 mm/5 pole	2240	10	3.2	PCB SMT
TT4P6-0860.5P0-1937	Band Pass	4 mm/6 pole	0860.5	19	3.7	PCB SMT
TT6P3-0836T-2520	Band Pass	6 mm/3 pole	0836	25	2.0	PCB SMT
TT6P3-0860P3-2020	Band Pass	6 mm/3 pole	0860	20	2.0	PCB SMT
TT6P3-0860T-2020	Band Pass	6 mm/3 pole	0860	20	2.0	PCB SMT
TT6P3-0881F-2520	Band Pass	6 mm/3 pole	0881	25	2.0	PCB SMT
TT6P5-1960P0-6025	Band Pass	6 mm/5 pole	1960	60	2.5	PCB SMT
TT6P5-2280P1-7032	Band Pass	6 mm/5 pole	2280	70	3.2	PCB SMT
TT6P6-1900P3-8035	Band Pass	6 mm/6 pole	1900	80	3.5	PCB SMT
TT6P3-2140P2-6011	Band Pass	6 mm/3 pole	2140	60	1.1	PCB SMT
TT6P10-R1950-T2140	Diplexer	6 mm/10 pole	1950	–	–	PCB SMT

*These products are produced by Trans-Tech (a wholly owned subsidiary of Skyworks Solutions, Inc.)

TECHNICAL CERAMICS
Standard Filters/Diplexers* (Continued)

GPS



Part Number	Filter Type	Size/Poles	Center Frequency (MHz)	Bandwidth (MHz)	Insertion Loss (dB)	Package (mm)
TT4P4-R1227.6-T1575.42	Diplexer	4 mm/4 pole	1227.6	-	-	PCB SMT
TT4P3-1227.6P1-2030	Band Pass	4 mm/3 pole	1227.6	20	3.0	PCB SMT
TT4P3-1575.42P2-2040	Band Pass	4 mm/3 pole	1575.42	20	4.0	PCB SMT
TT3P3-1227.6P1-1030	Band Pass	3 mm/3 pole	1227.6	10	3.0	PCB SMT
TT3P3-1575.42P2-1030	Band Pass	3 mm/3 pole	1575.42	10	3.0	PCB SMT

Other

Part Number	Filter Type	Size/Poles	Center Frequency (MHz)	Bandwidth (MHz)	Insertion Loss (dB)	Package (mm)
TT3P4-2513P2-5055	Band Pass	3 mm/4 pole	2513	50	5.5	PCB SMT
TT3P5-3687P1-7466	Band Pass	3 mm/5 pole	3687	74	6.6	PCB SMT
TT4P3-3417P2-0220	Band Pass	4 mm/3 pole	3417	02	2.0	PCB SMT
TT4P5-1090P0-1050	Band Pass	4 mm/5 pole	1090	10	5.0	PCB SMT
TT6P5-0810P3-5030	Band Pass	6 mm/5 pole	0810	50	3.0	PCB SMT
TT6P4-0509P7-0148	Band Pass	6 mm/4 pole	0509	01	4.8	PCB SMT
TT4P4-1000P2-1030	Band Pass	4 mm/4 pole	1000	10	3.0	PCB SMT
TT6P3-0826.5P3-0520	Band Pass	6 mm/3 pole	0826.5	05	2.0	PCB SMT
TT6P3-0827P3-0620	Band Pass	6 mm/3 pole	0825	06	2.0	PCB SMT
TT6P6-1000P5-8530	Band Pass	6 mm/6 pole	1000	85	3.0	PCB SMT
TT6P6-0545P6-3022	Band Pass	6 mm/6 pole	0545	30	2.2	PCB SMT
TT4P3-3500P2-10020	Band Pass	4 mm/3 pole	3500	100	2.0	PCB SMT
TT6P6-0889P3-4029	Band Pass	6 mm/6 pole	0889	40	2.9	PCB SMT
TT6P4-0722P4-4817	Band Pass	6 mm/4 pole	0722	48	1.7	PCB SMT
TT3P3-1088P2-9015	Band Pass	3 mm/3 pole	1088	90	1.5	PCB SMT
TT6P3-0740P3-2020	Band Pass	6 mm/3 pole	0740	20	2.0	PCB SMT
TT6P5-1950P3-6040	Band Pass	6 mm/5 pole	1950	60	4.0	PCB SMT
TT3P4-0917P2-4524	Band Pass	3 mm/4 pole	0917	45	2.4	PCB SMT
TT6P3-1090P2-1029	Band Pass	6 mm/3 pole	1090	10	2.9	PCB SMT
TT6P4-0770P0-1240	Band Pass	6 mm/4 pole	0770	12	4.0	PCB SMT
TT6P3-1030P2-1029	Band Pass	6 mm/3 pole	1030	10	2.9	PCB SMT
TT6P5-0881.5P0-2530	Band Pass	6 mm/5 pole	0881.5	25	3.0	PCB SMT
TT6P3-0730P3-1213	Band Pass	6 mm/3 pole	0730	12	1.3	PCB SMT
TT6P3-0445.25T-0145	Band Pass	6 mm/3 pole	0445.25	01	4.5	PCB SMT
TT4P3-2400P1-20015	Band Pass	4 mm/3 pole	2400	200	1.5	PCB SMT
TT6P3-1080P2-0650	Band Pass	6 mm/3 pole	1080	06	5.0	PCB SMT
TT6P3-0745.3P3-1920	Band Pass	6 mm/3 pole	0745.3	19	2.0	PCB SMT
TT6P4-0435P0-3019-NS	Band Pass	6 mm/4 pole	0435	30	1.9	PCB SMT
TT3P4-0895.5P2-3926	Band Pass	3 mm/4 pole	0895.5	39	2.6	PCB SMT

*These products are produced by Trans-Tech (a wholly owned subsidiary of Skyworks Solutions, Inc.)

UP/DOWN CONVERSION

Part Number	Description	Package (mm)	RF Frequency (MHz)	IF Frequency (MHz)	Down-conversion Insertion Loss (dB)	Down-conversion IIP3 (dBm)	Upconversion Insertion loss (dB)	Upconversion IIP3 (dBm)	LO Injection (dB)
 SKY73062-11	700-1000MHz Single Up/ Downconversion Mixer	20-pin MCM 5 x 5	700-1000	50-300	7.5	32.6	7.5	26.1	High Side LO
 SKY73069-11	700-1000MHz Single Up/ Downconversion Mixer	20-pin MCM 5 x 5	700-1000	50-300	7.0	31.0	7.5	30.5	High Side LO

 The (Pb)-free symbol or "LF" in the part number denotes lead (Pb)-free, RoHS-compliant package.



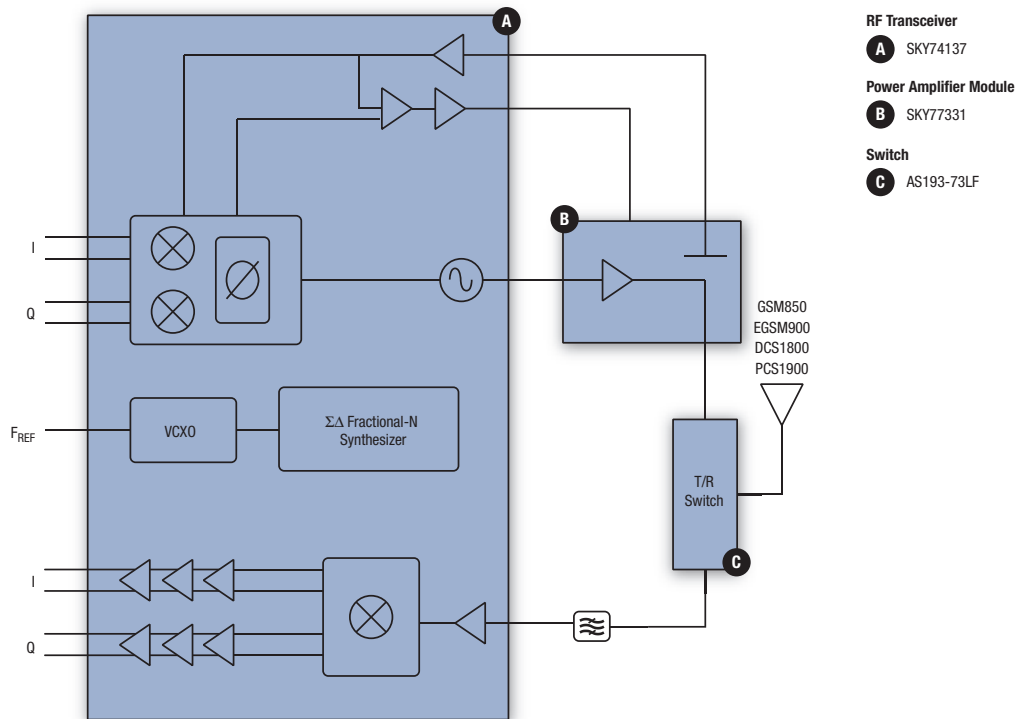
REFERENCE MATERIAL

Block Diagrams87
Package Selection Guide105
Warranty/Order Information109
Part Number Index110
Skyworks Sales Representatives114
Skyworks Distributors116
Skyworks Sales Offices.123

BLOCK DIAGRAMS

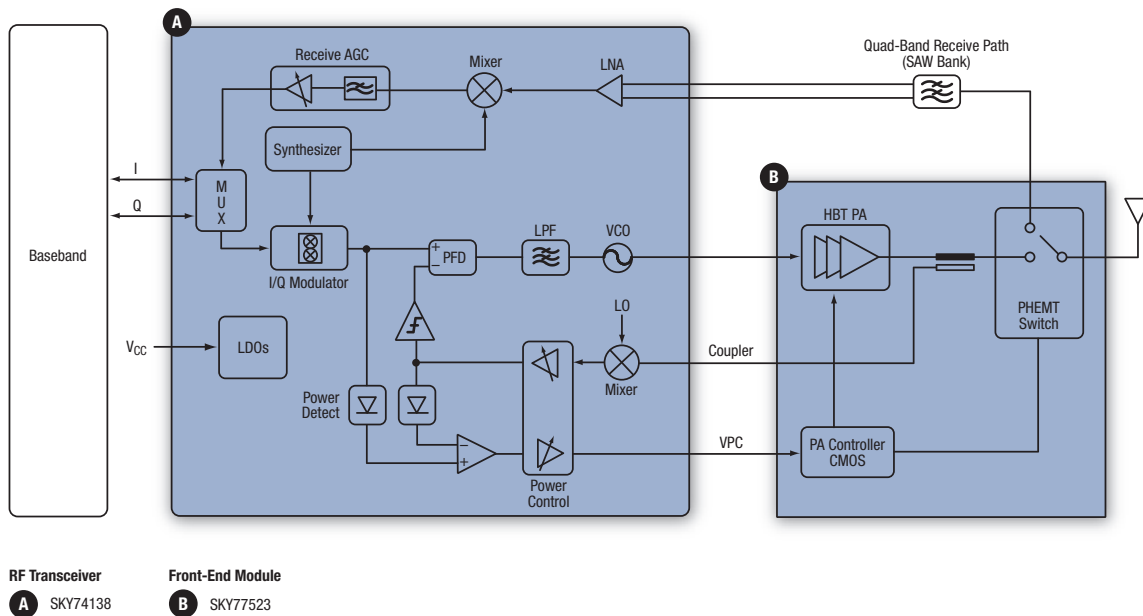
Handsets

Helios™ II EDGE RF Subsystem



Handsets

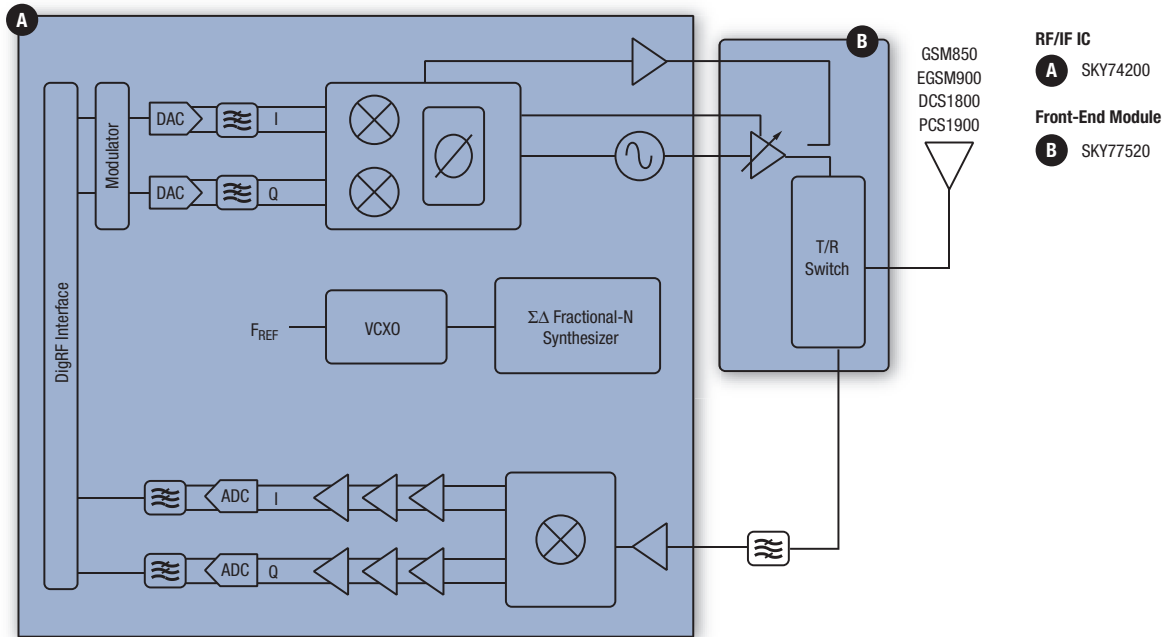
Helios™ II-Plus EDGE RF Subsystem



BLOCK DIAGRAMS

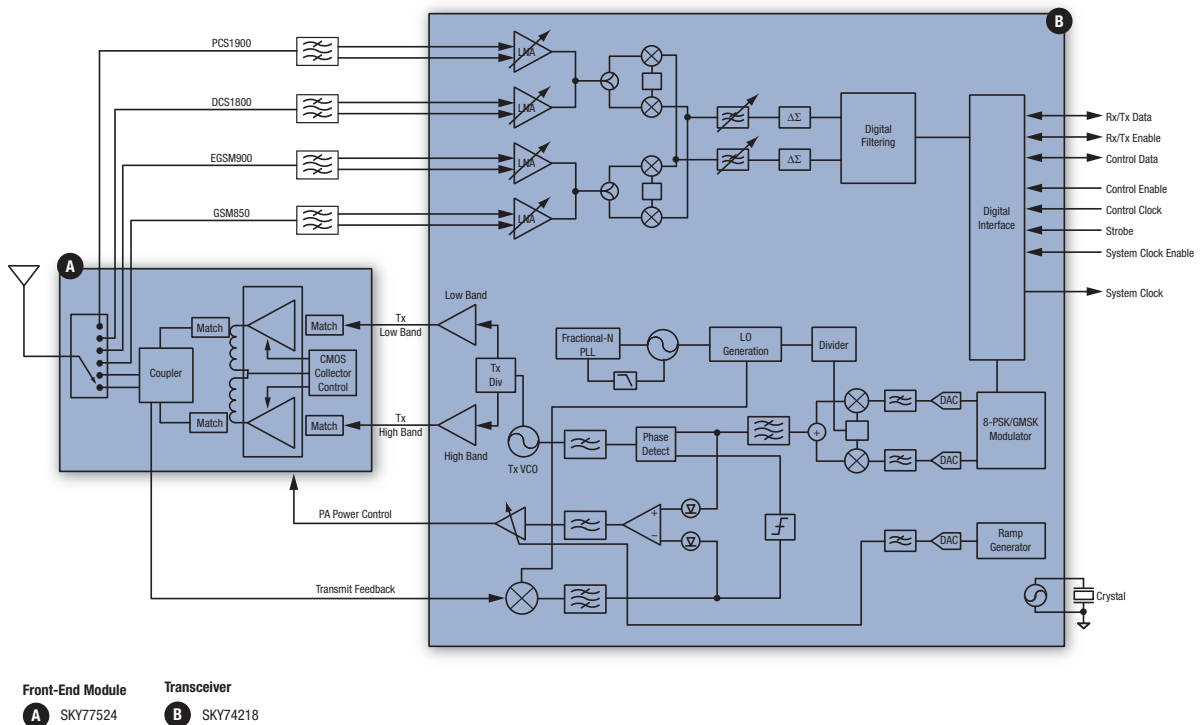
Handsets

Helios™ DigRF Subsystem



Handsets

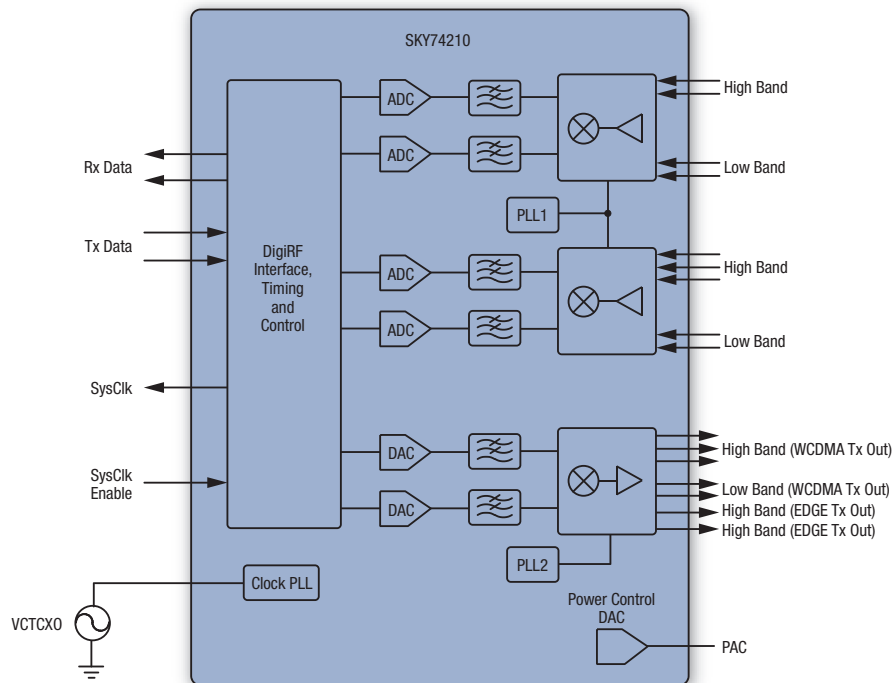
Helios™ 3 EDGE RF Subsystem



BLOCK DIAGRAMS

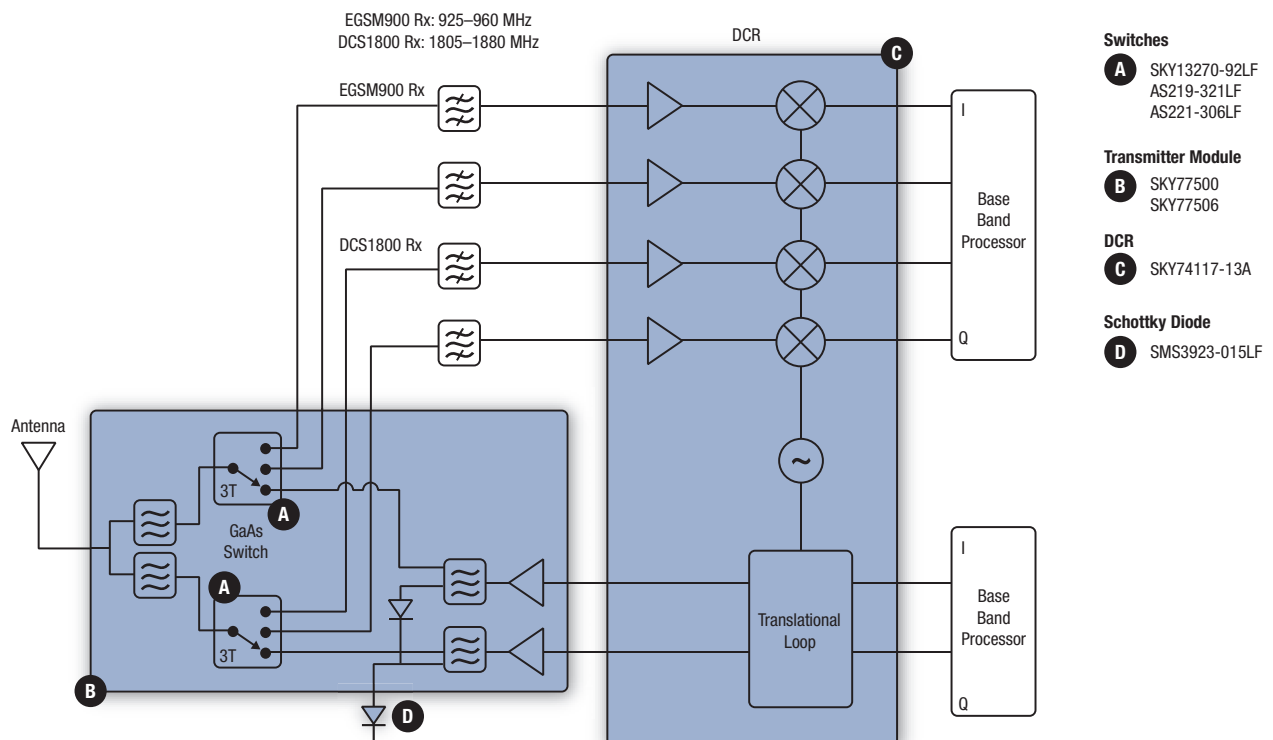
Handsets

Helios™ WEDGE Transceiver



Handsets

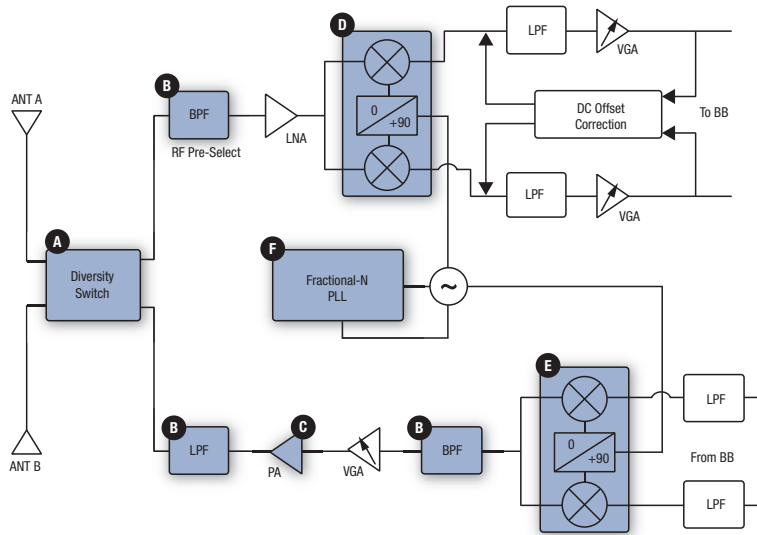
Quad-Band GSM/GPRS RF Subsystem with DCR™ Transceiver



BLOCK DIAGRAMS

WiMAX

700 MHz Direct Conversion Architecture



Switches

- A** AS218-321LF
- SKY13267-321LF
- SMP1340 Series
- SMP1345 Series
- SMP1320 Series
- SMP1352 Series

Filters

- B** Ceramic Band Pass Filter

Power Amplifiers

- C** SKY65009 SKY65028
- SKY65013 SKY65111-348LF
- SKY65014 SKY65015
- SKY65016 SKY65017

Demodulator

- D** SKY73009 SKY73012

Modulator

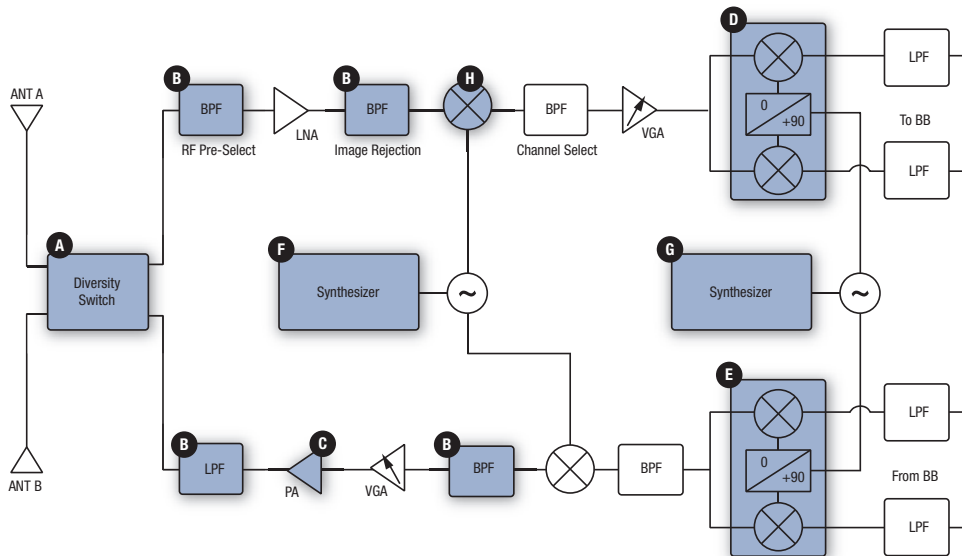
- E** SKY73010

Synthesizer

- F** SKY72300 SKY72310
- SKY73100 SKY73112

WiMAX

700 MHz Superheterodyne Architecture



Switches

- A** AS218-321LF
- SKY13267-321LF
- SMP1340 Series
- SMP1345 Series
- SMP1320 Series
- SMP1352 Series

Filters

- B** Ceramic Band Pass Filter

Power Amplifiers

- C** SKY65009 SKY65028
- SKY65013 SKY65111-348LF
- SKY65014 SKY73008
- SKY65015 SKY65016
- SKY65017

Demodulators

- D** SKY73001 SKY73009 SKY73012

Synthesizers

- F** SKY72300 SKY72310 SKY73100 SKY73112
- G** SKY72300 SKY72310

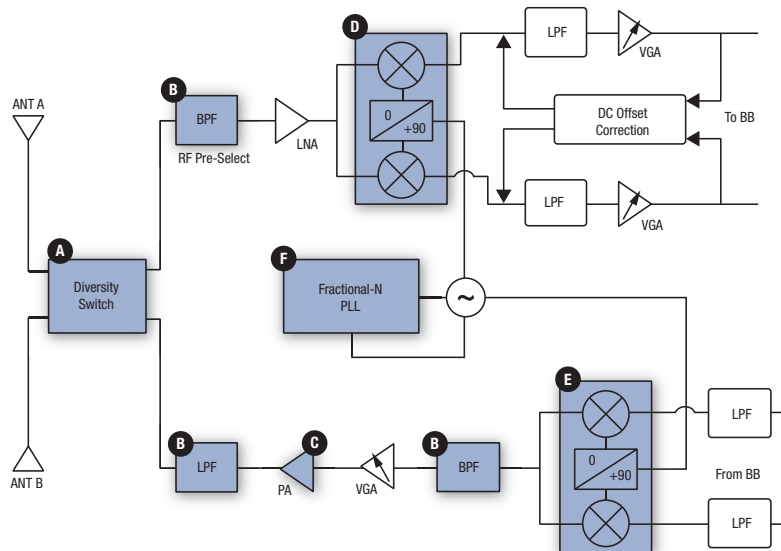
Mixers

- H** SKY73020 SKY73022 SKY73032 SKY42068

BLOCK DIAGRAMS

WiMAX

1500 MHz Direct Conversion Architecture



Switches

- A** AS218-321LF
SKY13267-321LF
SMP1340 Series
SMP1345 Series
SMP1320 Series
SMP1352 Series

Filters

- B** Ceramic Band Pass Filter

Power Amplifiers

- C** SKY65008 SKY65016
SKY65009 SKY65017
SKY65013 SKY65028
SKY65014 SKY73008
SKY65015

Demodulator

- D** SKY73009
SKY73012

Modulator

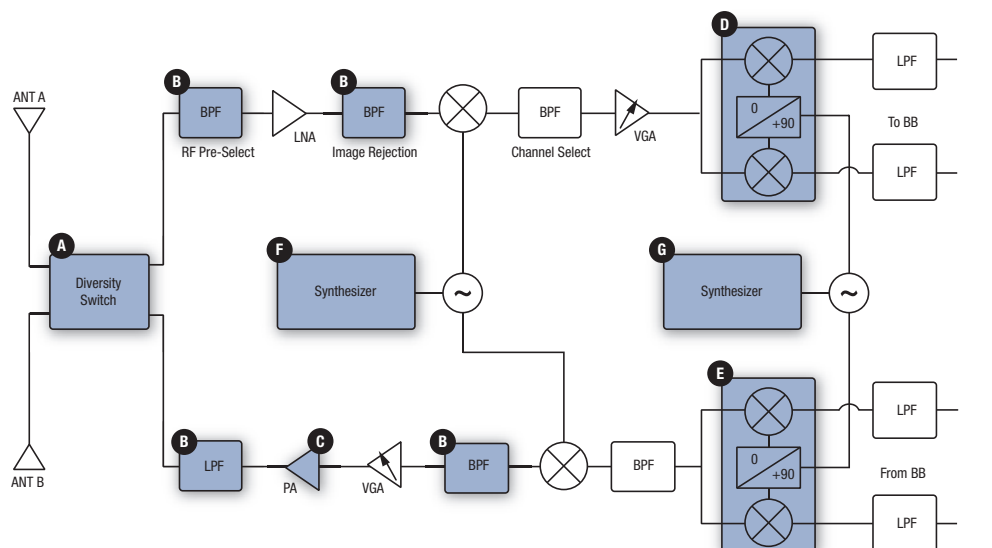
- E** SKY73010

Synthesizers

- F** SKY72300
SKY72310
SKY73100
SKY73101
SKY73102

WiMAX

1500 MHz Superheterodyne Architecture



Switches

- A** AS218-321LF
SKY13267-321LF
SMP1340 Series
SMP1345 Series
SMP1320 Series
SMP1352 Series

Filters

- B** Ceramic Band Pass Filter

Power Amplifier

- C** SKY65013
SKY65014
SKY65015
SKY65016
SKY65017
SKY65111-348LF
SKY73008

Demodulator

- D** SKY73009
SKY73012

Modulator

- E** SKY73010

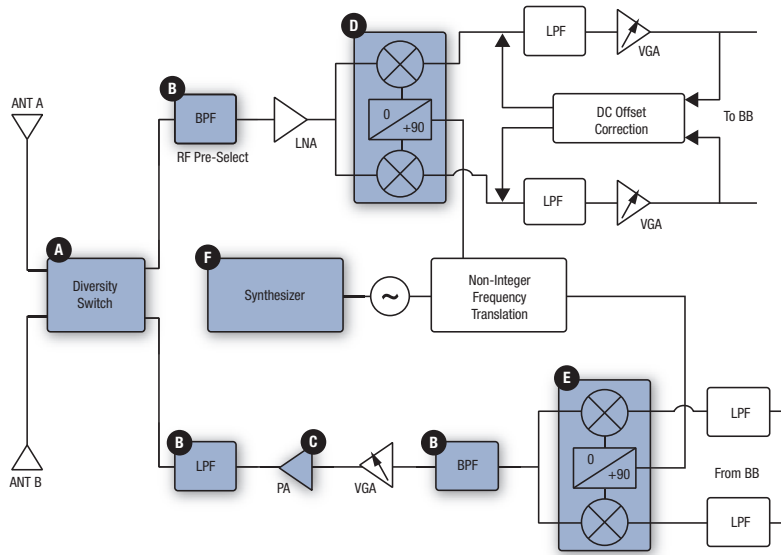
Synthesizers

- F** SKY72300
SKY72310
SKY73100
SKY73101
SKY73103
- G** SKY72301
SKY72310

BLOCK DIAGRAMS

WiMAX

2.4 GHz Direct Conversion Architecture



Switches

- A** AS218-321LF
SKY13267-321LF
SMP1340 Series
SMP1345 Series
SMP1320 Series
SMP1352 Series

Filters

- B** Ceramic Band Pass Filter

Power Amplifiers

- C** SKY65013 SKY65131
SKY65014 SKY65132
SKY65015 SKY65135
SKY65016 SKY73008
SKY65017

Demodulators

- D** SKY73009
SKY73012

Modulator

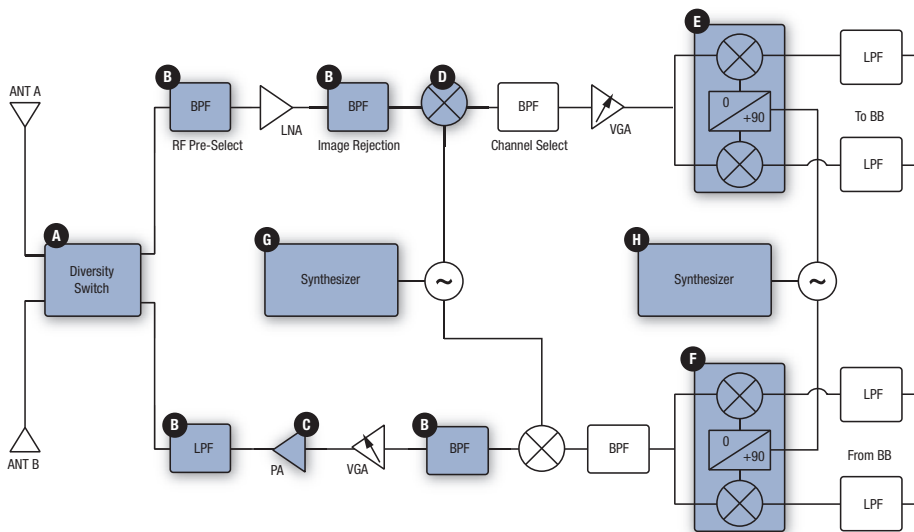
- E** SKY73010

Synthesizers

- F** SKY72302
SKY72310
SKY73101

WiMAX

2.4 GHz Superheterodyne Architecture



Switches

- A** AS218-321LF
SKY13267-321LF
SMP1340 Series
SMP1345 Series
SMP1320 Series
SMP1352 Series

Filters

- B** Ceramic Band Pass Filter

Power Amplifiers

- C** SKY65013 SKY65131
SKY65014 SKY65132
SKY65015 SKY65135
SKY65016 SKY73008
SKY65017

Mixers

- D** SKY73001
SKY73025
SKY73035

Demodulators

- E** SKY73009
SKY73012

Modulator

- F** SKY73010

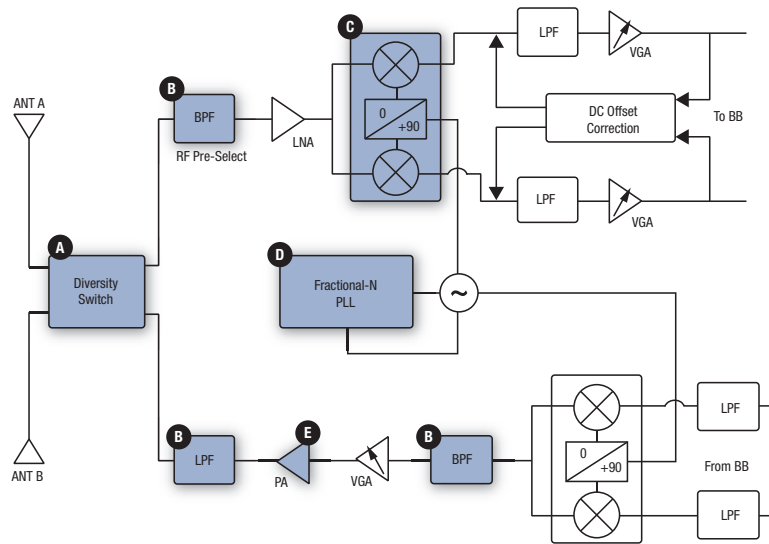
Synthesizers

- G** SKY72302
SKY73101
- H** SKY72302
SKY72310

BLOCK DIAGRAMS

WiMAX

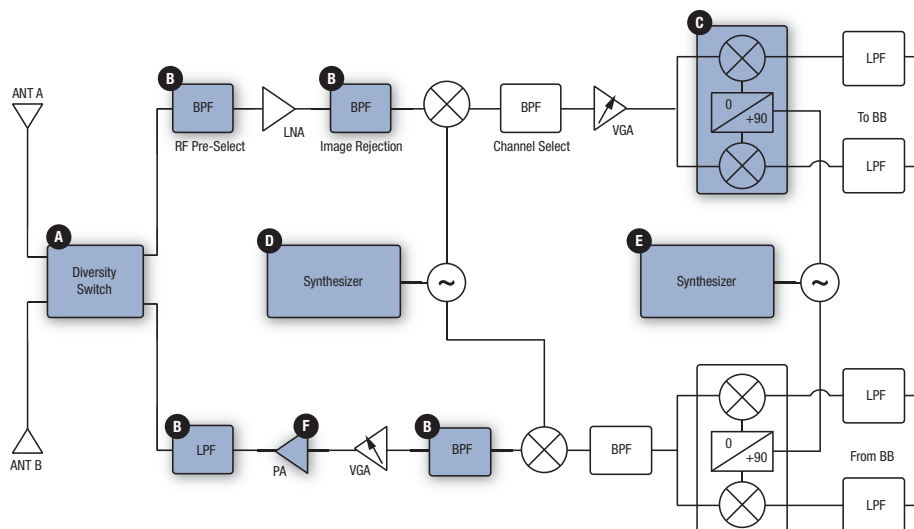
3.5 GHz Direct Conversion Architecture



- | Switches | Filters | Demodulator | Synthesizer | Amplifiers |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------|-------------------|-------------------------------------------------------|
| A AS218-321LF
SKY13267-321LF
SMP1340 Series
SMP1345 Series
SMP1320 Series
SMP1352 Series | B Ceramic Band
Pass Filter | C SKY73001
SKY73012 | D SKY72302 | E SKY65013
SKY65014
SKY65015
SKY65017 |

WiMAX

3.5 GHz Superheterodyne Architecture

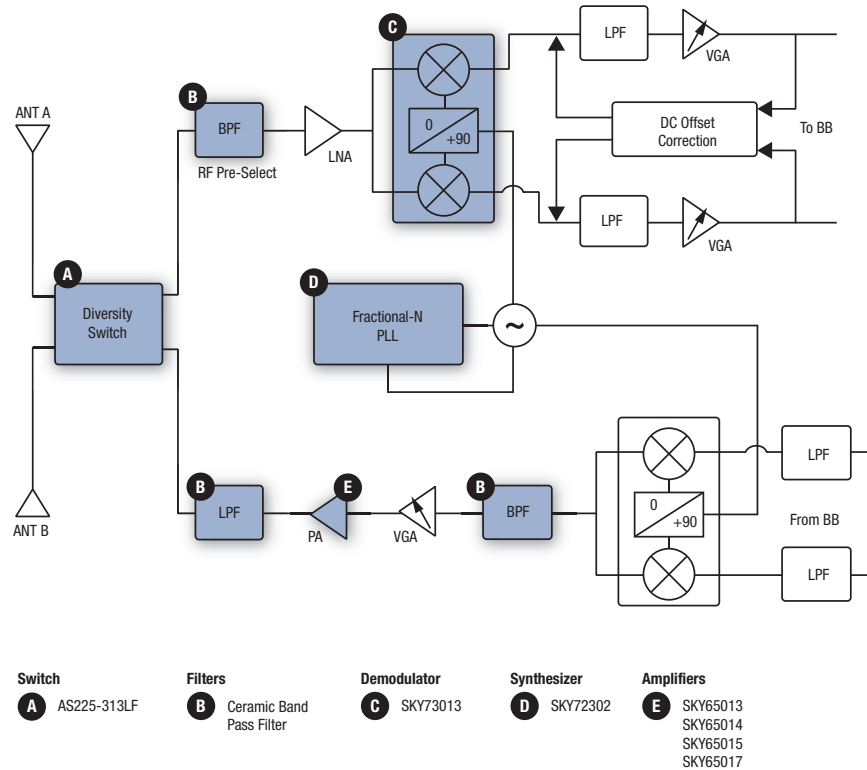


- | Switches | Filters | Demodulator | Synthesizers | Amplifier |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------|----------------------------------------|-------------------|
| A AS218-321LF
SKY13267-321LF
SMP1340 Series
SMP1345 Series
SMP1320 Series
SMP1352 Series | B Ceramic Band
Pass Filter | C SKY73009
SKY73012 | D SKY72302
E SKY72302 | F SKY72310 |

BLOCK DIAGRAMS

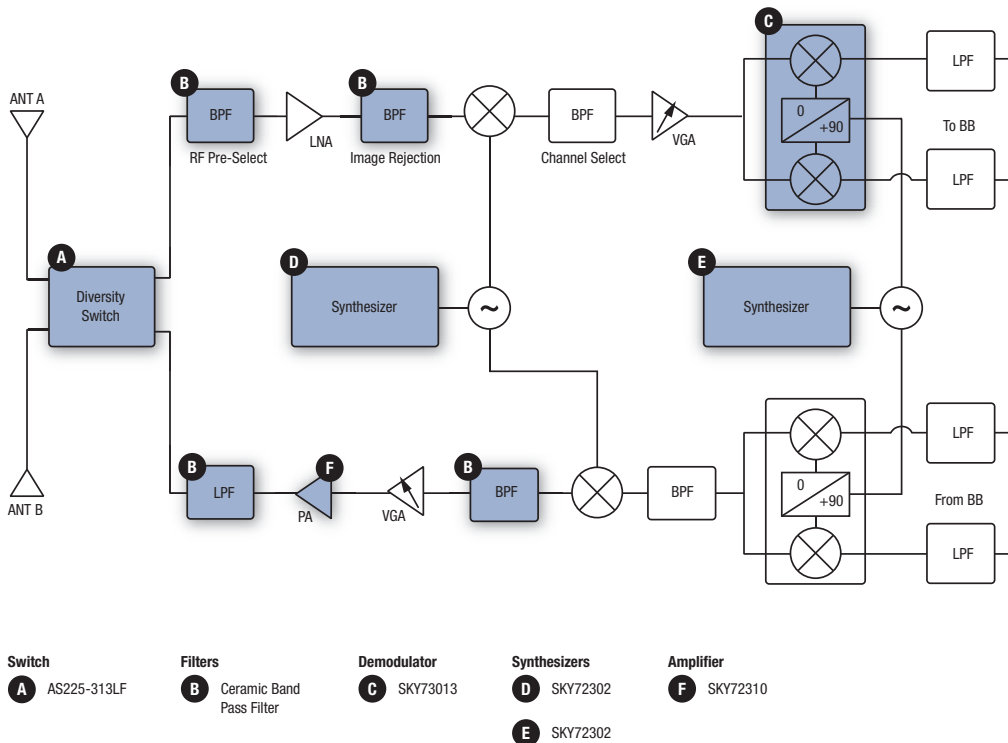
WiMAX

5.8 GHz Direct Conversion Architecture



WiMAX

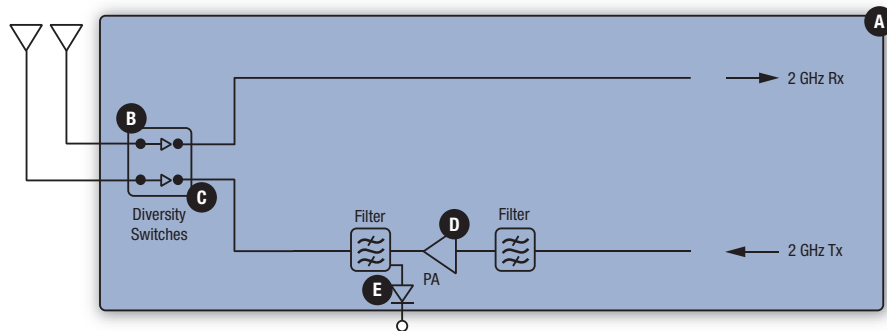
5.8 GHz Superheterodyne Architecture



BLOCK DIAGRAMS

WLAN

Wireless LAN Front-End for 802.11a,b,g,n Single-Band Applications



Front-End Module

- A** SKY65227-11
- SKY65228-11
- SKY65249-11

Switches

- B** AS200-313LF
- AS214-92LF
- AS218-321LF
- AS236-321LF
- SKY13267-321LF
- SKY13268-344LF
- SKY13251-349LF
- SKY13276-334
- SKY13306-313LF
- SKY13309-370LF

PIN Diodes

- C** SMP1321-508
- SMP1340-079LF
- SMP1340-508
- SMP1345-518

Amplifiers

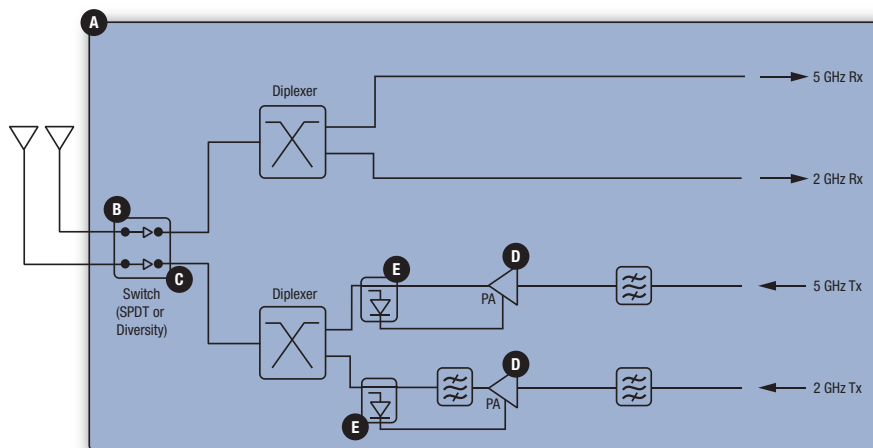
- D** SKY65006
- SKY65132
- SKY65135

Detectors

- E** DD02-999LF
- SMS7621-079LF
- SMS7630-079LF

WLAN

Wireless LAN Front-End for 802.11a,b,g,n Dual-Band Applications



Front-End Module

- A** SKY65225-11
- SKY65230-11
- SKY65241-11
- SKY65243-11
- SKY65256-11

Switches

- B** AS200-313LF
- AS214-92LF
- AS218-321LF
- AS236-321LF
- SKY13267-321LF
- SKY13268-344LF
- SKY13251-349LF
- SKY13276-334
- SKY13306-370LF
- SKY13309-313LF

PIN Diodes

- C** SMP1321-508
- SMP1340-079LF
- SMP1340-508
- SMP1345-518

Amplifiers

- D** SKY65132
- SKY65135
- SKY65006

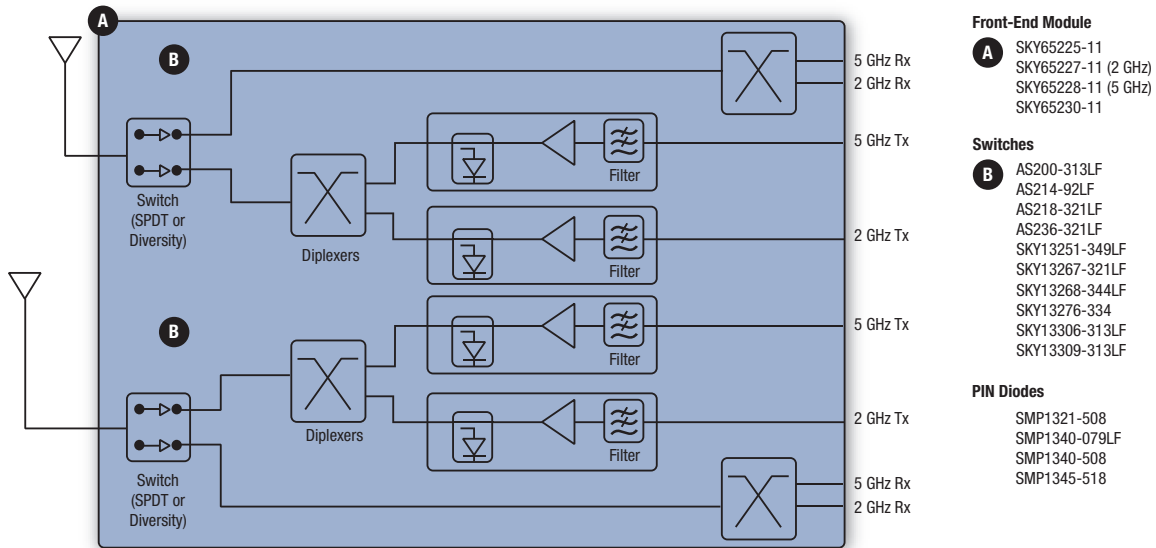
Detectors

- E** DD02-999LF
- SMS7621-079LF
- SMS7630-079LF

BLOCK DIAGRAMS

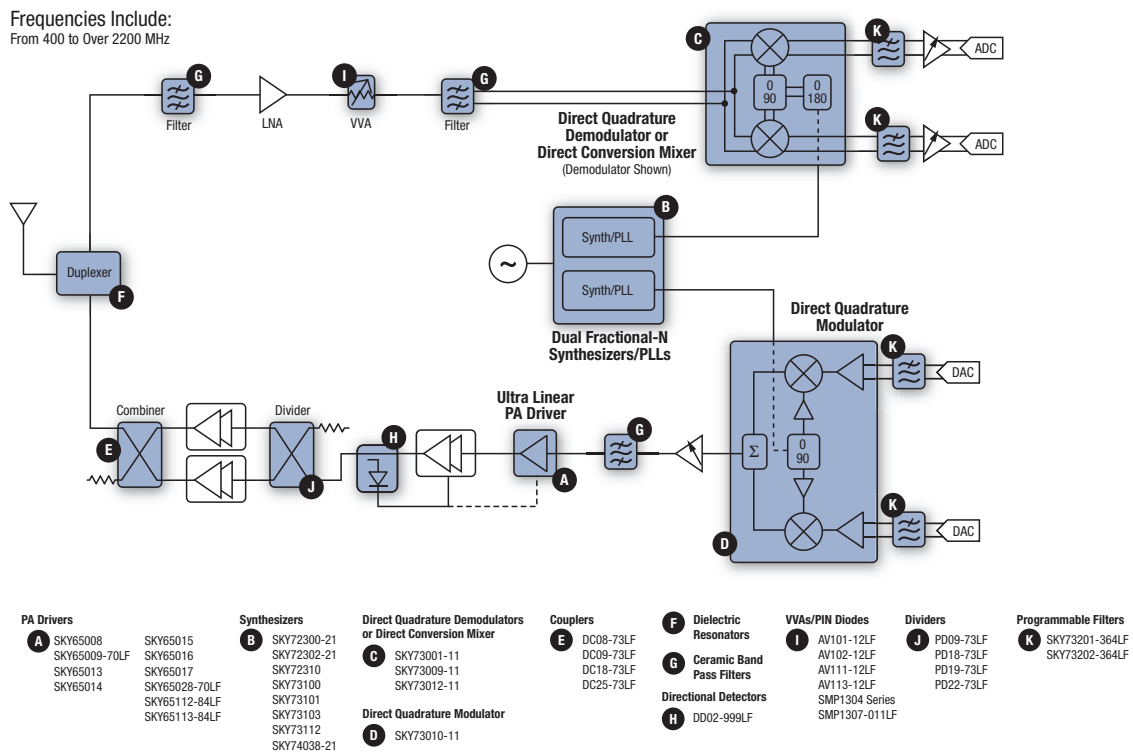
WLAN

Wireless LAN FEM for 802.11a,b,g,n, Single and Dual-Band Applications



Infrastructure

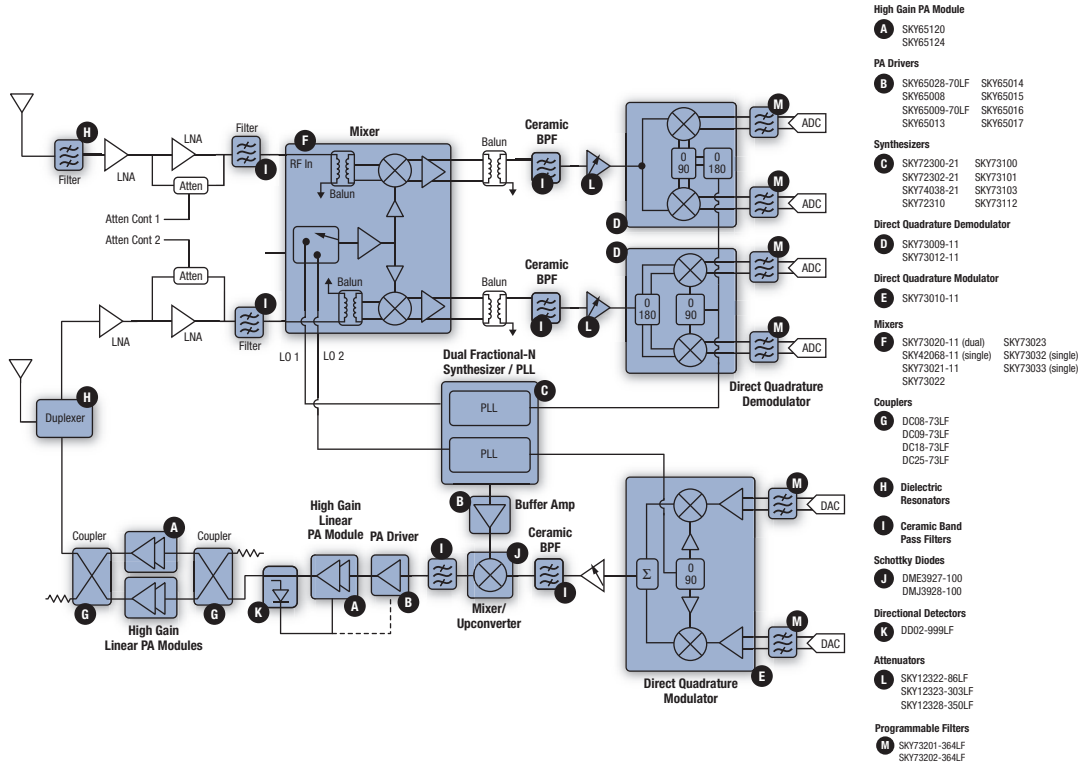
Direct Conversion Base Station Transceiver



BLOCK DIAGRAMS

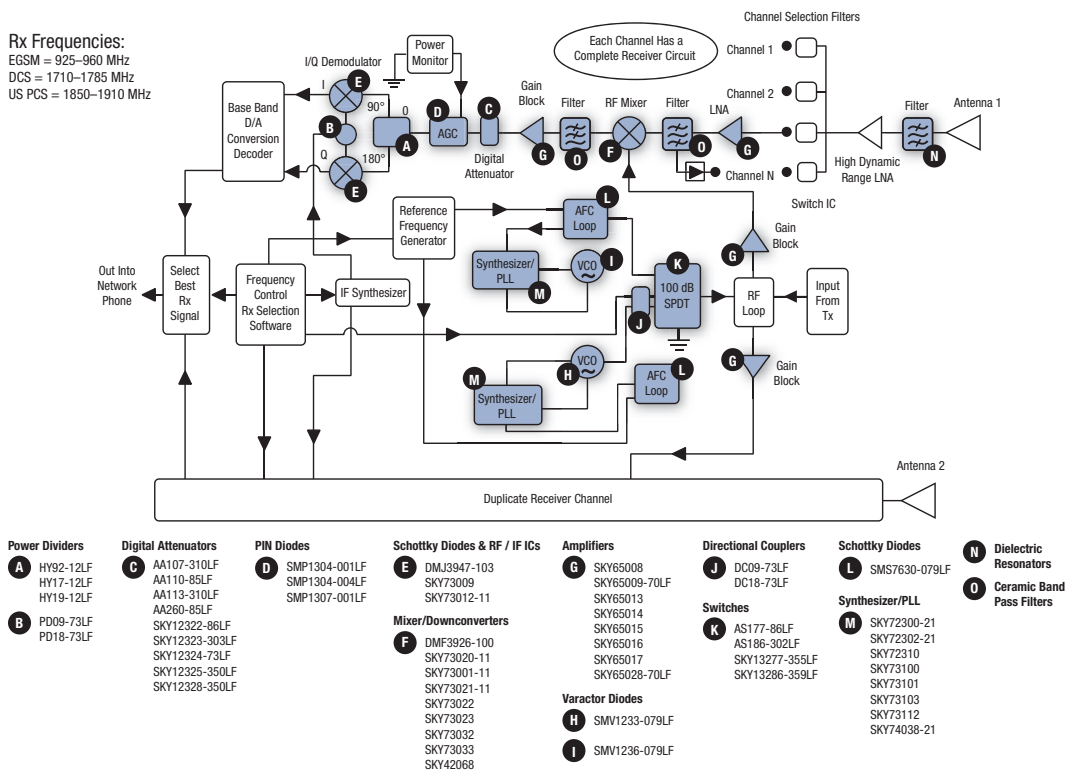
Infrastructure

Superheterodyne Base Station Transceiver



Infrastructure

Base Station Receiver System Using Antenna Diversity

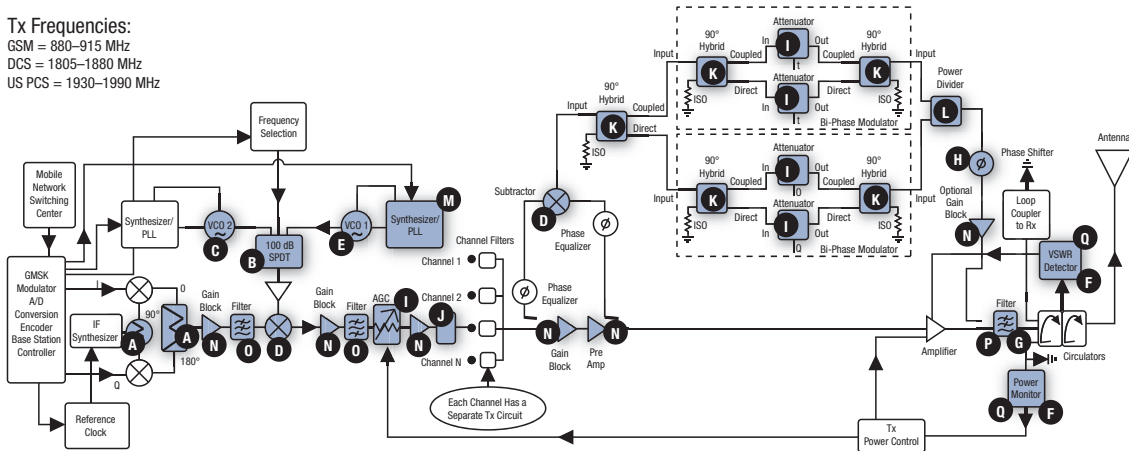


BLOCK DIAGRAMS

Infrastructure

Base Station Transmitter With Combining Amplifier

Tx Frequencies:
 GSM = 880-915 MHz
 DCS = 1805-1880 MHz
 US PCS = 1930-1990 MHz



- | | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Hybrids
A HY92-12LF
HY17-12LF
HY19-12LF
K HY86-12LF
HY92-12LF
HY17-12LF
HY19-12LF
HY22-73LF | Varactor Diodes
C SMV1233-079LF
SMV1763-079LF
E SMV1236-079LF

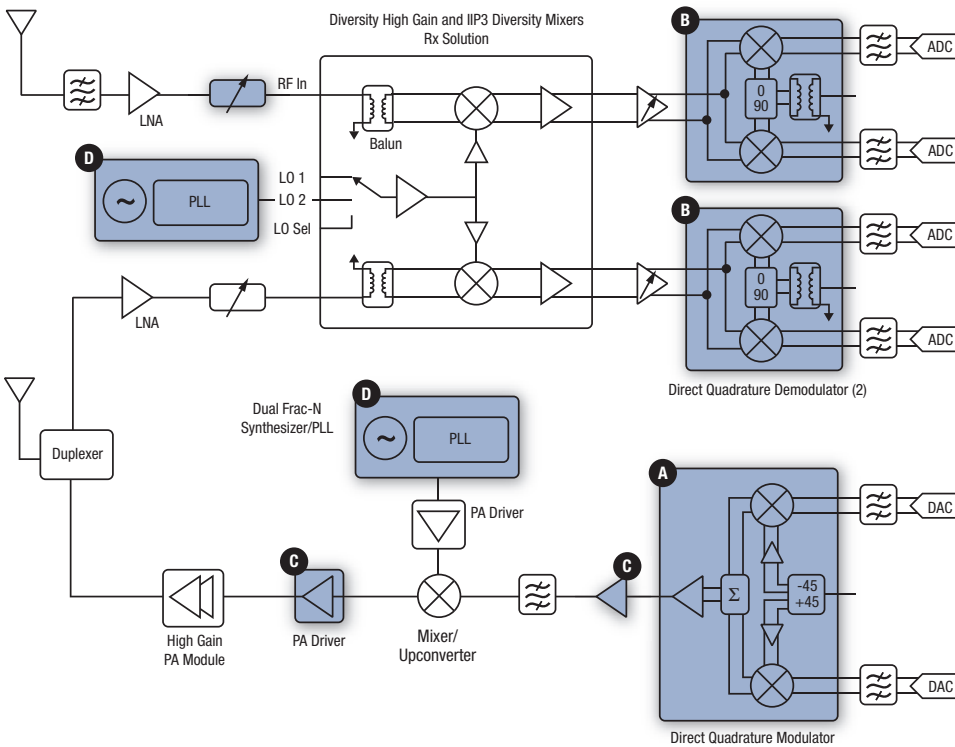
Schottky Diodes
D DMF3926-100
F SMS3923-005LF | Filters
G DC09-73LF
DC18-73LF
DC25-73LF

Phase Shifters
H PS088-315
PS094-315
PS196-315
PS214-315 | PIN Diodes/VV Attenuators
I SMP1304-001LF
SMP1307-001LF
AV111-12LF
AV113-12LF
SKY12143-315
SKY12144-315
SKY12145-315 | Digital Attenuators
J AA102-80LF
AA104-12LF
AA105-86LF
AA107-310LF
AA109-310LF
AA110-85LF
SKY12322-86LF
SKY12323-303LF
SKY12324-73LF
SKY12325-350LF
SKY12328-350LF
SKY12332-310LF | Power Dividers
L PD09-73LF
PD18-73LF
PD22-73LF

Synthesizer/PLL
M SKY72300-21
SKY72302-21
SKY74038-21 | Amplifiers
N SKY65008
SKY65009-70LF
SKY65013
SKY65014
SKY65015
SKY65016
SKY65017
SKY65028-70LF | Other Components
O Ceramic Band Pass Filters
P Ferrites
Q Directional Detectors
DD02-999LF |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|

Infrastructure

Transceiver



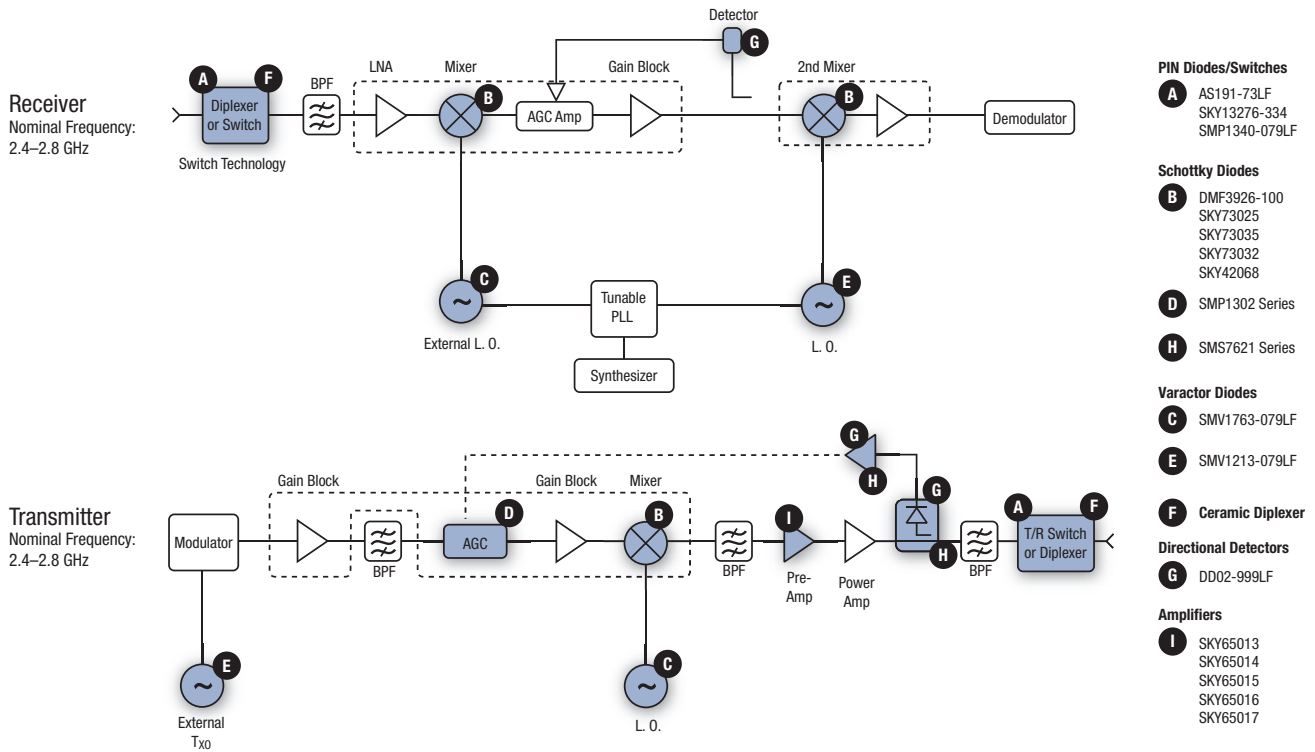
- | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Direct Quadrature Demodulators
A SKY73009-11
SKY73012

Direct Quadrature Modulators
B SKY73010-11 | Amplifiers
C SKY65008
SKY65009-70LF
SKY65013
SKY65014-70LF
SKY65014-92LF
SKY65014-214LF
SKY65015
SKY65016
SKY65017 | Synthesizer/PLL
D SKY72300-21
SKY72302-21
SKY72310
SKY73100
SKY73101
SKY73103
SKY73112
SKY74038-21 |
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BLOCK DIAGRAMS

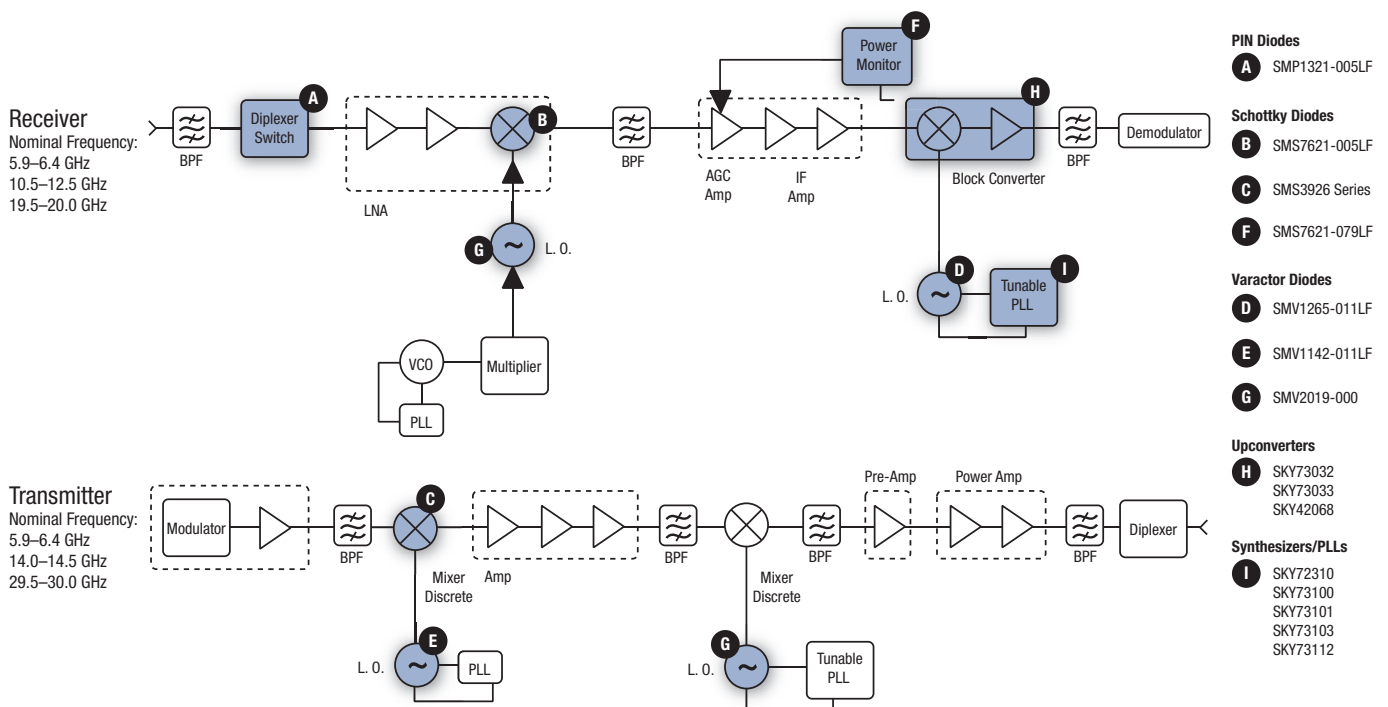
Broadband Access Systems

MMDS Link



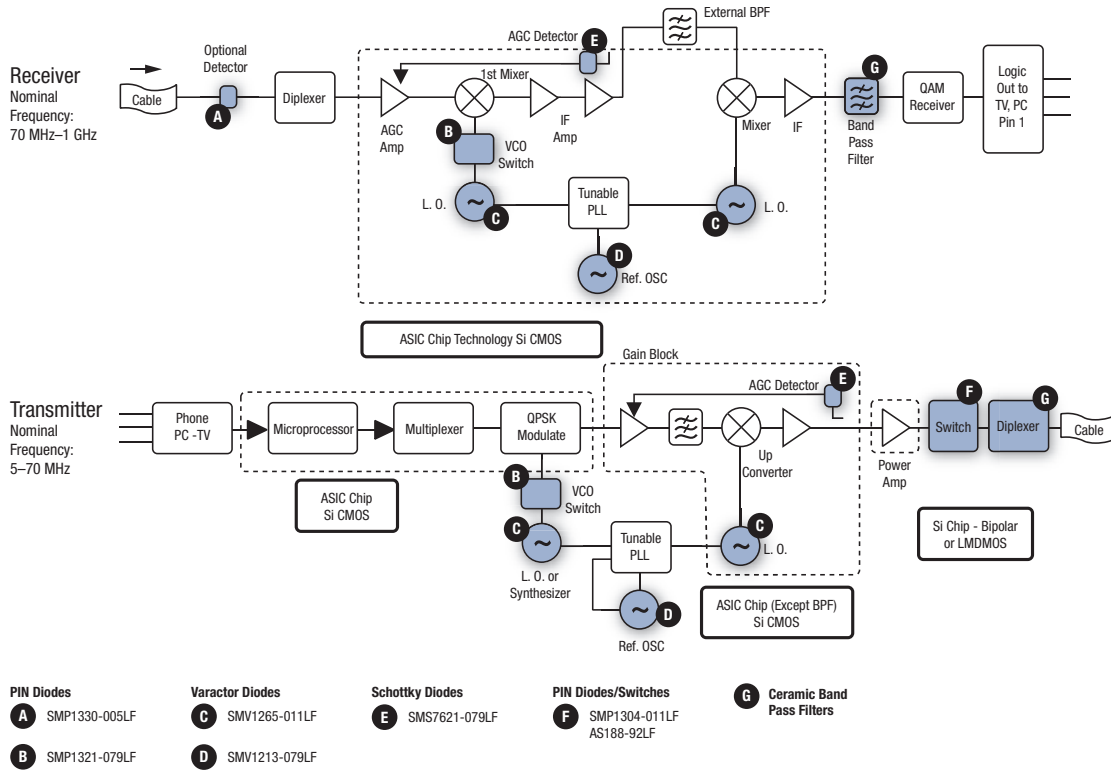
Broadband Access Systems

Satellite Systems

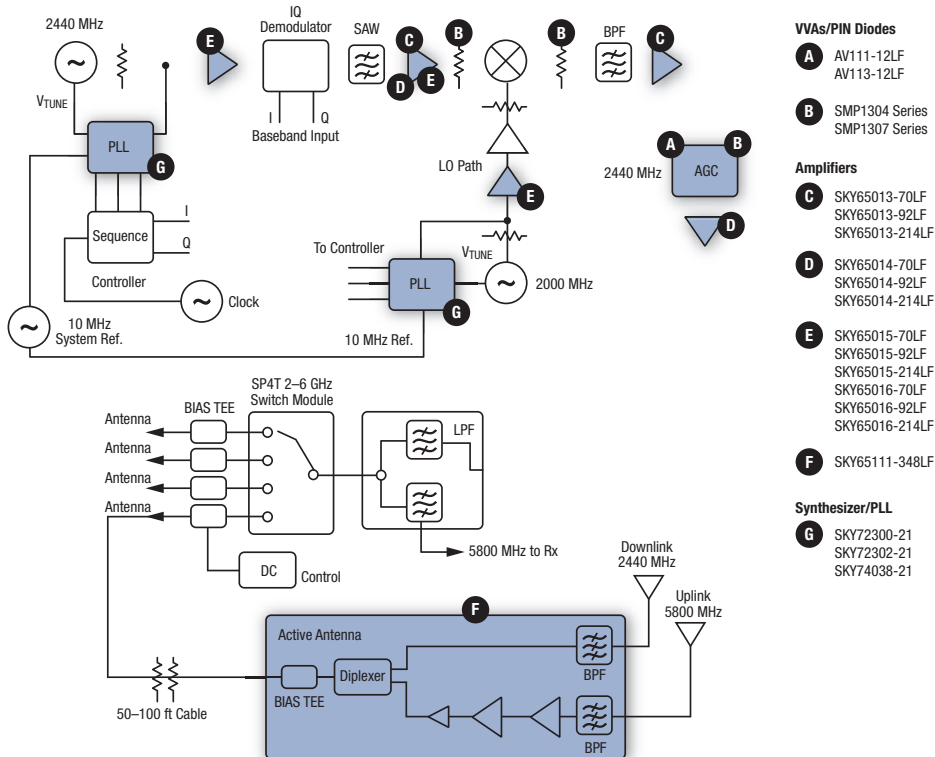


BLOCK DIAGRAMS

CATV Modem

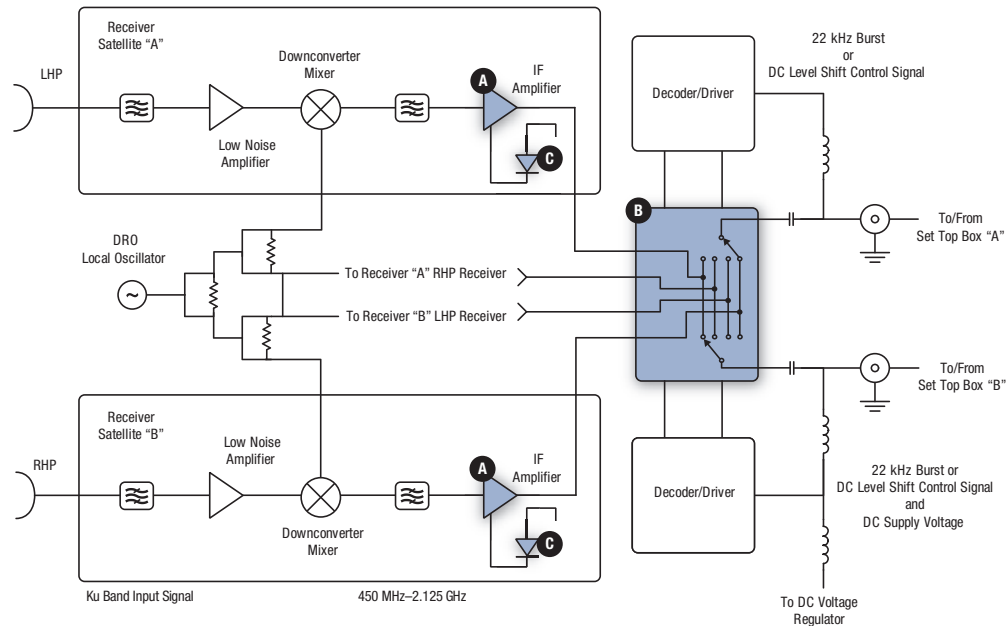


Reader/Active Antennas/Transmitter, Full Duplex 2440



BLOCK DIAGRAMS

LNB



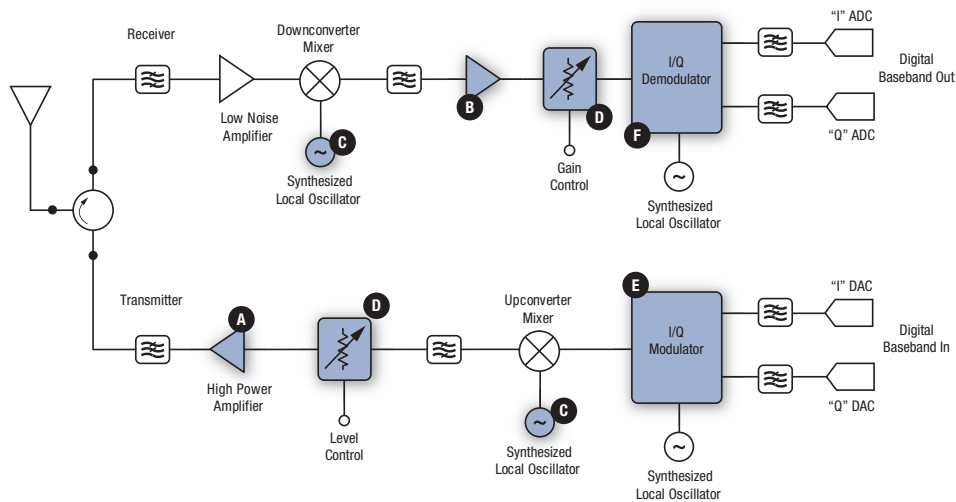
Amplifiers

- | | |
|------------------------|----------------|
| A SKY65013-70LF | SKY65015-70LF |
| SKY65013-92LF | SKY65015-92LF |
| SKY65013-214LF | SKY65015-214LF |
| SKY65014-70LF | SKY65016-70LF |
| SKY65014-92LF | SKY65016-92LF |
| SKY65014-214LF | SKY65016-214LF |
| | SKY65017-70LF |

Switches

- | |
|-------------------------|
| B SKY13272-340LF |
| SKY13264-340LF |
| SKY13292-365LF |
| C SMS7621-006LF |

Transceiver (Simplified)



Amplifiers

- | | |
|-------------------------|----------------|
| A SKY65111-348LF | |
| B SKY65013-70LF | SKY65015-70LF |
| SKY65013-92LF | SKY65015-92LF |
| SKY65013-214LF | SKY65015-214LF |
| SKY65014-70LF | SKY65016-70LF |
| SKY65014-92LF | SKY65016-92LF |
| SKY65014-214LF | SKY65016-214LF |

Synthesizers/PLLs

- | |
|----------------------|
| C SKY72300-21 |
| SKY72302-21 |
| SKY74038-21 |

Attenuators

- | |
|---------------------|
| D AA103-72LF |
| AA264-87LF |
| AV105-12LF |
| SKY12322-86LF |
| SKY12323-303LF |
| SKY12324-73LF |
| SKY12325-350LF |
| SKY12328-350LF |

Direct Quadrature Modulators

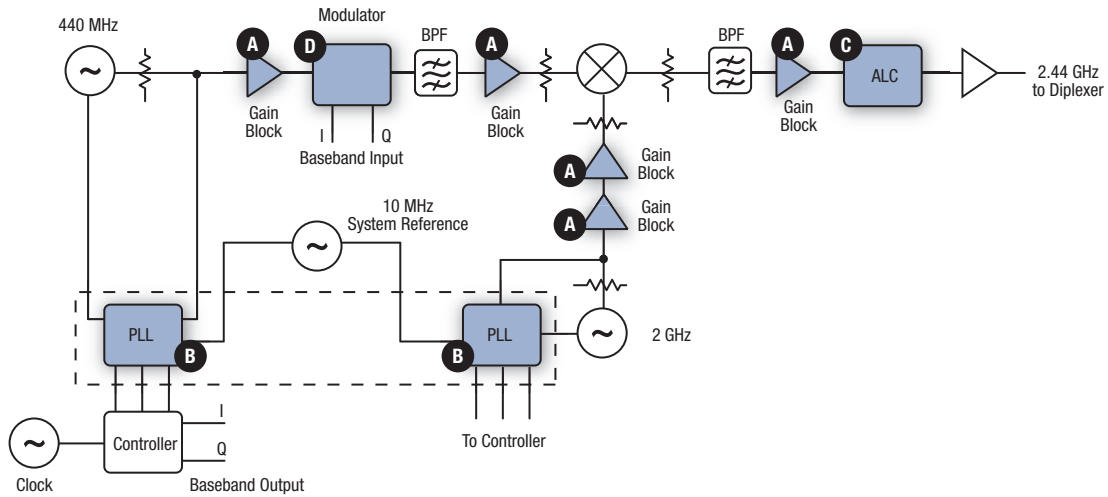
- | |
|----------------------|
| E SKY73010-11 |
|----------------------|

Direct Quadrature Demodulators

- | |
|----------------------|
| F SKY73009-11 |
| SKY73012-11 |

BLOCK DIAGRAMS

RF ID Transmitter



Amplifiers

- | | |
|------------------------|----------------|
| A SKY65013-70LF | SKY65015-70LF |
| SKY65013-92LF | SKY65015-92LF |
| SKY65013-214LF | SKY65015-214LF |
| SKY65014-70LF | SKY65016-70LF |
| SKY65014-92LF | SKY65016-92LF |
| SKY65014-214LF | SKY65016-214LF |

Synthesizers/PLLs

- | |
|----------------------|
| B SKY72300-21 |
| SKY72302-21 |
| SKY74038-21 |
| SKY73100 |
| SKY73112 |

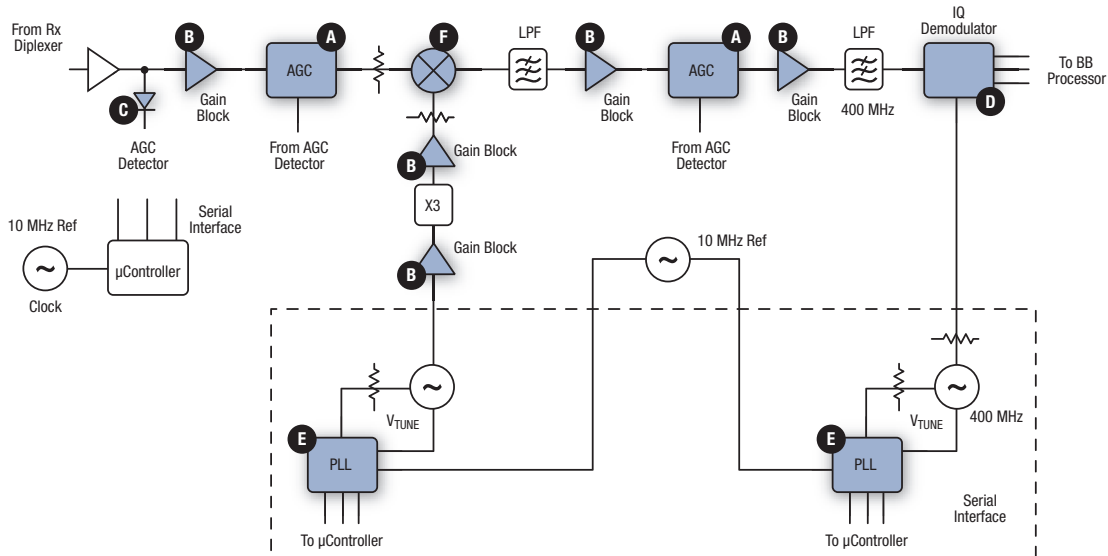
Attenuators

- | |
|---------------------|
| C AA103-72LF |
| AA264-87LF |
| AV105-12LF |
| SKY12322-86LF |
| SKY12323-303LF |
| SKY12324-73LF |
| SKY12325-350LF |
| SKY12328-350LF |

Direct Quadrature Modulator

- | |
|----------------------|
| D SKY73010-11 |
|----------------------|

RF ID Receiver



Attenuators

- | |
|---------------------|
| A AA103-72LF |
| AA264-87LF |
| SKY12322-86LF |
| SKY12323-303LF |
| SKY12324-73LF |
| SKY12325-350LF |
| AV103-12LF |
| AV105-12LF |

Amplifiers

- | | |
|------------------------|----------------|
| B SKY65013-70LF | SKY65015-70LF |
| SKY65013-92LF | SKY65015-92LF |
| SKY65013-214LF | SKY65015-214LF |
| SKY65014-70LF | SKY65016-70LF |
| SKY65014-92LF | SKY65016-92LF |
| SKY65014-214LF | SKY65016-214LF |

Schottky Diodes

- | |
|------------------------|
| C SMS7630-079LF |
|------------------------|

Direct Quadrature Demodulators

- | |
|----------------------|
| D SKY73009-11 |
| SKY73012-11 |

Synthesizers/PLLs

- | |
|----------------------|
| E SKY72300-21 |
| SKY72302-21 |
| SKY73100 |
| SKY73112 |
| SKY74038-21 |

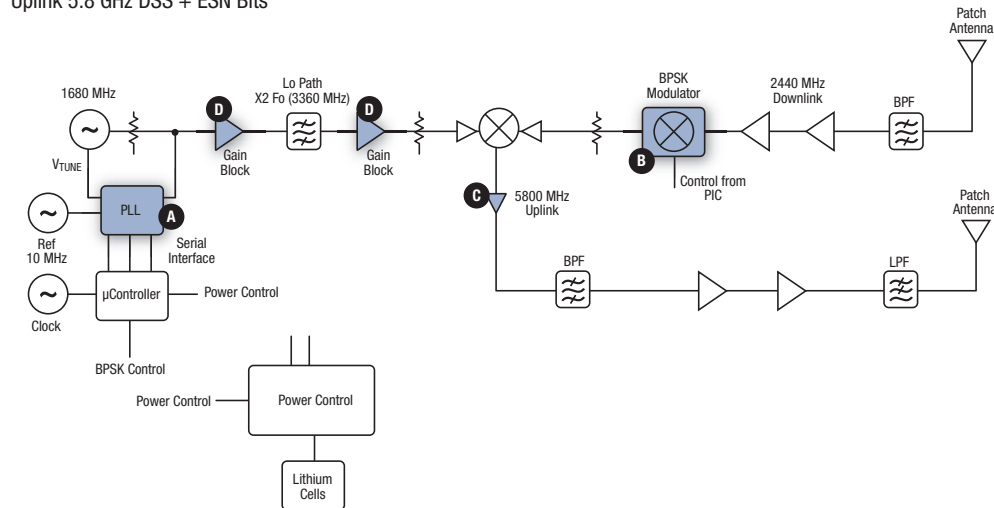
Mixers

- | |
|-------------------|
| F SKY42068 |
| SKY73032 |
| SKY73035 |

BLOCK DIAGRAMS

RF ID Full Duplex Tag

Downlink 2.44 GHz DSS
Uplink 5.8 GHz DSS + ESN Bits



Synthesizers/PLLs

- A** SKY72300-21
- SKY72302-21
- SKY74038-21

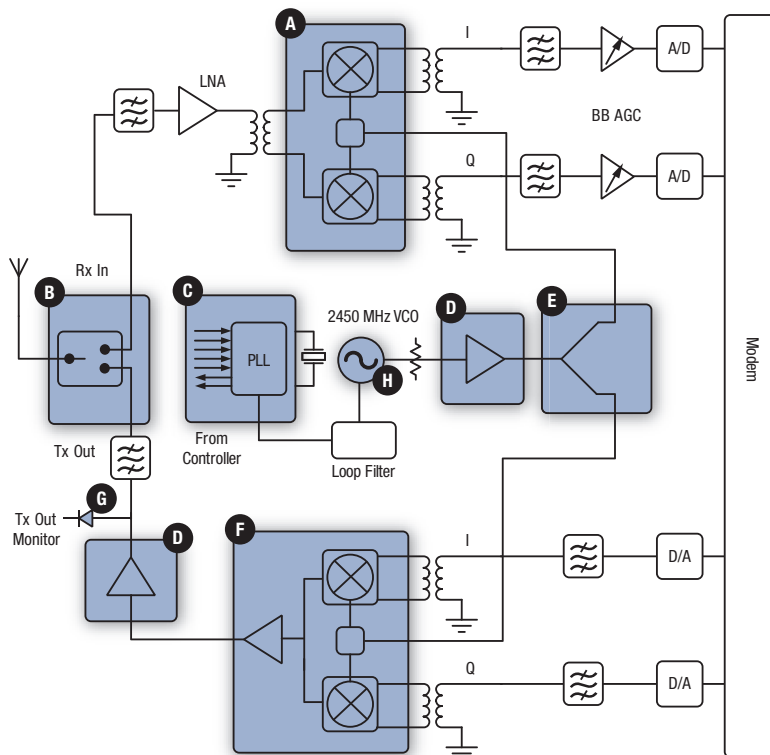
Direct Quadrature Demodulators or Direct Conversion Mixer

- B** SKY73009-11
- SKY73012-11

Amplifiers

- C** SKY65015-70LF
- SKY65015-92LF
- SKY65015-214LF
- D** SKY65016-70LF
- SKY65016-92LF
- SKY65016-214LF

2.45 GHz DSS Wireless Reader (Simplified)



Direct Quadrature Demodulator or Direct Conversion Mixer

- A** SKY73009-11
- SKY73012-11

Switch

- B** AS179-92LF
- AS211-334
- SMP1320-001LF
- SKY13268-344LF

Synthesizers/PLLs

- C** SKY72302
- SKY74038

Amplifier

- D** SKY65013-70LF
- SKY65013-92LF
- SKY65013-214LF

Power Divider

- E** PD22-73LF

Direct Quadrature Modulator

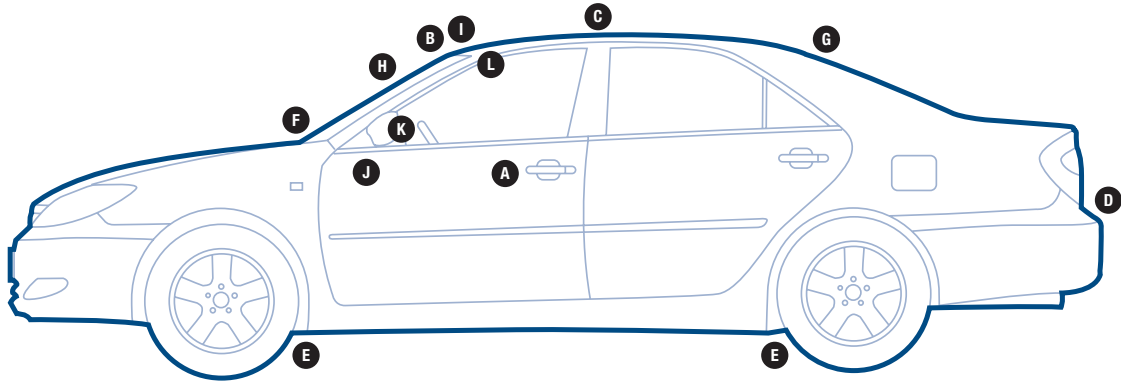
- F** SKY73010-11

Level Detector

- G** SMS7630-005LF
- H** SMV1413-079LF
- SMV1413-001LF
- SMV1251-079LF
- SMV1142-011LF
- SMV1249-003LF
- SMV1235-011LF

BLOCK DIAGRAMS

Automotive

















<p>A</p> <p>Keyless Entry</p> <p>PIN Diode SMP1345-079LF</p> <p>Switches AS179-92LF AS211-334 SKY13268-344LF</p>	<p>B</p> <p>Garage Door Openers, Remote Controls</p> <p>PIN Diodes SMP1320-079LF SMP1302-004LF SMP1322-004LF</p> <p>Schottky Diode SMS3923-011LF</p> <p>Varactor Diodes SMV1413-001LF SMV1705-004LF</p>	<p>C</p> <p>Audio/Video Systems</p> <p>Varactor Diodes SMV1212-079LF SMV1255-004LF</p>	<p>D</p> <p>Rear Collision Avoidance Sensors</p> <p>Schottky Diodes SMS7621-005LF SMS7621-079LF</p> <p>Schottky Flip Chips DMK2790-000 DMK2308-000</p>	<p>E</p> <p>Tire Pressure Sensors</p> <p>Varactor Diode SMV1253-011LF</p> <p>Schottky Diode SMS7630-079LF</p>	<p>F</p> <p>In-Dash Monitor, Direction System</p> <p>Varactor Diode SMV1405-074LF</p>
<p>G</p> <p>Satellite Radio</p> <p>Switches AS179-92LF AS211-334 SKY13268-344LF</p> <p>Varactor Diode SMV1235-011 LF</p> <p>Voltage Variable Attenuators AV105-15LF</p>	<p>H</p> <p>Toll Tag Transponder</p> <p>Schottky Diode SMS7630-006LF</p> <p>Switch SKY13270-92LF</p>	<p>I</p> <p>Wireless Communications</p> <p>PIN Diode SMP1320-011LF</p>	<p>J</p> <p>Airbags</p> <p>Switches AS179-92LF AS211-334 SKY13268-344LF</p>	<p>K</p> <p>Traffic Control Systems</p> <p>Directional Detector DD02-999LF</p>	<p>L</p> <p>Telematics</p> <p>Switches AS172-73LF SKY13290-313LF SKY13270-92LF</p>







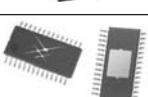





PACKAGE SELECTION GUIDE

Front-End Module Products

Front-End Modules, Power Amplifier Modules

Part Number Suffix	Package Type	Actual Size	Package Dimensions (mm) (Lead Inclusive)*
-321, -348, -350, -356	QFN (3 x 3)		3.00 x 3.00 x 0.75
N/A	Multichip Module (MCM)		3.00 x 3.00
N/A	Multichip Module (MCM)		4.00 x 4.00
-317	QFN-16 (4 x 4) 1.47 mm Paddle		4.00 x 4.00 x 1.00
-70	SOT-89 3L with Tab		4.57 x 4.24 x 1.60
-214	Micro-X		5.08 x 5.08 x 1.52
-12	SOIC-8		6.00 x 4.90 x 1.60
N/A	Multichip Module (MCM)		6.00 x 6.00
N/A	RF WLAN Module		6.00 x 6.00 x 1.70
N/A	LCC		8.00 x 8.00
N/A	Multichip Module (MCM)		9.10 x 11.60
N/A	RF WLAN Module		10.00 x 14.00 x 1.70
N/A	Multichip Module (MCM)		10.00 x 14.00
N/A	Multichip Module (MCM)		13.00 x 13.00



























RF Subsystems























Part Number Suffix	Package Type	Actual Size	Package Dimensions (mm) (Lead Inclusive)*
N/A	CSP		3.50 x 4.50
N/A	LGA		4.00 x 4.00
N/A	ESQIC 8L		4.90 x 3.90
N/A	LGA		5.00 x 5.00
N/A	RFLGA		5.00 x 5.00
N/A	RFLGA		6.00 x 6.00
N/A	EP-SSOP 28L		6.40 x 9.70
N/A	RFLGA		7.00 x 7.00
N/A	TQFP		7.00 x 7.00
N/A	RFLGA		8.00 x 8.00
N/A	RFLGA		9.00 x 9.00
N/A	RFLGA FPBGA, FPBGA 100L,		10.00 x 10.00

*Dimensions indicated: lead tip to lead tip x body width x total thickness.

PACKAGE SELECTION GUIDE

Discrete and Passive Components


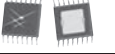










Part Number Suffix	Package Type	Actual Size	Package Dimensions (mm) (Lead Inclusive)*
-203	Hermetic Pill		1.27 x 1.4
-508, -517, -518	LGA		1.47 x 1.23 x 0.70
-334	LGA 6L		1.50 x 1.20 x 0.80
-079	SC-79		1.60 x 0.80 x 0.60
-344	SOT-666		1.65 x 1.65 x 0.60
-108	Ceramic LTCC		1.83 x 1.43 x 1.0
-109	Ceramic LTCC		1.83 x 1.43 x 1.0
-219	Hermetic Pill		1.91 x 1.91 x 1.14
-322	QFN 5L		2.00 x 1.00 x 0.40
-116, -117	Hermetic Surface Mount		2.0 x 1.7 x 0.9
-335	QFN 6L (2 x 2)		2.00 x 2.00 x 0.90
-349	MLP 8L (2 x 2)		2.00 x 2.00 x 0.90
-360	QFN 8L		2.00 x 2.00 x 0.90
-313	QFN 6L		2.00 x 3.00 x 1.00
-92, 081	SC-88 (SC-70 6L)		2.10 x 2.00 x 0.95
-073, -074, -075, -076	SC-70		2.10 x 2.00 x 0.95
-001, -003, -004, -005, -006, -007, -39	SOT-23 3L		2.37 x 2.92 x 1.00
-015, -016, -017, -019, -020, -021, -022, -023, -026, -32	SOT-143		2.37 x 2.92 x 1.00
-011	SOD-323		2.52 x 1.25 x 1.04
-100, -101, -103	Chip On Board		2.54 x 3.05 x 1.02
-111	SPD Surface Mount Package		2.79 x 2.28 x 1.01
-027, -72	SOT-23 5L		2.80 x 2.90 x 1.18
-73	SOT-23 6L		2.80 x 2.90 x 1.18
-321, -348, -350, -356	QFN (3 x 3)		3.00 x 3.00 x 0.75
N/A	LGA 24L		3.50 x 4.50
N/A	LGA		4.00 x 4.00










Part Number Suffix	Package Type	Actual Size	Package Dimensions (mm) (Lead Inclusive)*
-340	QFN 20L (4 x 4) 2.1 mm Paddle		4.00 x 4.00 x 0.75
-355	QFN 16L (4 x 4)		4.00 x 4.00 x 0.90
-306	QFN 16L (4 x 4)		4.00 x 4.00 x 0.90
-307	QFN 16L (4 x 4) 2.8 m Paddle		4.00 x 4.00 x 0.90
-359	QFN 16L (4 x 4)		4.00 x 4.00 x 0.90
-308	QFN 20L (4 x 4) 2.1 mm Paddle		4.00 x 4.00 x 0.90
-365	QFN 20L		4.00 x 4.00 x 1.00
-70	SOT-89		4.50 x 2.40 x 1.50
-59	MSOP 8L		4.90 x 3.00 x 0.96
-86	MSOP 10L		4.90 x 3.00 x 0.96
-302, -303	MSOP 8L Exposed Pad		4.90 x 3.00 x 1.10 (Max.)
-315	LGA Surface Mount Package		4.90 x 3.20 x 2.32
-355	QFN 20L		5.00 x 5.00 x 0.90
-364	QFN 32L 3.15 mm Paddle		5.00 x 5.00 x 0.90
-310	QFN 32L (5 x 5) 3.3 mm Paddle		5.00 x 5.00 x 0.90
-207	Hermetic Ceramic Pill		5.08 x 2.18
-210	Hermetic Pill		5.7 x 3.15
-230	Epoxy Stripline		5.98 x 1.4 x 0.76
-232	Epoxy Stripline		5.98 x 3.69 x 0.76
-234, -235	Epoxy Stripline		5.98 x 5.98 x 0.76
-339	SOIC 8L Exposed Pad		5.99 x 4.93 x 1.55
-12	SOIC 8L		6.00 x 4.90 x 1.60

*Dimensions indicated: lead tip to lead tip x body width x total thickness.

PACKAGE SELECTION GUIDE

Discrete and Passive Components (Continued)


















Part Number Suffix	Package Type	Actual Size	Package Dimensions (mm) (Lead Inclusive)*
-80	SSOP 16L		6.00 x 4.90 x 1.60
-93	TSSOP 16L Exposed Pad		6.40 x 6.40 x 1.00
-87	TSSOP 16L		6.40 x 5.00 x 1.00
-85	SSOP 20L		7.80 x 7.20 x 1.90
-24	SOIC 14L		6.00 x 8.70 x 1.55
N/A	Multichip Module (MCM)		8.00 x 8.00
-345, -501, N/A	Multichip Module (MCM)		8.00 x 10.00
-250, -251	Epoxy Stripline		8.12 x 2.54 x 1.27
-252, -253	Epoxy Stripline		8.12 x 5.33 x 1.27
-254	Epoxy Stripline		8.12 x 8.12 x 1.27
-255, -257	Epoxy Stripline		8.12 x 8.12 x 1.27
N/A	CLCC 8L		8.30 x 8.30












Part Number Suffix	Package Type	Actual Size	Package Dimensions (mm) (Lead Inclusive)*
N/A	Multichip Module (MCM)		9.10 x 11.60 x 1.50
-25	SOIC 16L		10.00 x 6.00 x 1.70
-220, -221	Hermetic Stripline		11.3 x 1.91 x 1.14
-224	Hermetic Stripline		11.3 x 11.3 x 1.14
-225	Hermetic Stripline		11.3 x 11.3 x 1.14
-222	Hermetic Stripline		11.3 x 6.6 x 1.14
-223	Hermetic Stripline		11.3 x 6.6 x 1.14
-240	Hermetic Stripline		11.52 x 2.64 x 1.18
N/A	Multichip Module (MCM)		13.00 x 13.00

PACKAGE SELECTION GUIDE

Discrete and Passive Components (Continued)

Skyworks offers filters in a number of standard packages. In addition to SMT, Skyworks offers a flatpack and through-hole configuration. In addition to our standard offering, Skyworks has the capability and experience to meet many unique footprint layouts and custom packages. For each of our 2- to 6-pole packages, Skyworks can offer profiles ranging from 2 mm to 6 mm. Dimension "L" will vary in length, dependent upon filter's frequency.

Part Number** Suffix	Package Type	Not Actual Size	Package Dimensions (mm) (Lead Inclusive)*
TT2P2-P	SMT		5.33 x L x 3.01
TT2P3-P	SMT		7.42 x L x 3.01
TT2P4-P	SMT		9.50 x L x 3.01
TT2P5-P	SMT		11.58 x L x 3.01
TT2P6-P	SMT		13.67 x L x 3.01
TT3P2-P	SMT		7.80 x L x 4.01
TT3P3-P	SMT		11.18 x L x 4.01
TT3P4-P	SMT		13.72 x L x 4.01
TT3P5-P	SMT		16.81 x L x 4.01
TT3P6-P	SMT		19.91 x L x 4.01
TT4P2-P	SMT		9.16 x L x 4.99
TT4P3-P	SMT		13.16 x L x 4.99
TT4P4-P	SMT		17.48 x L x 4.98
TT4P5-P	SMT		21.08 x L x 4.98
TT4P6-P	SMT		25.40 x L x 4.98
TT6P2-P	SMT		13.14 x L x 7.01
TT6P3-P	SMT		19.14 x L x 7.01

Part Number** Suffix	Package Type	Not Actual Size	Package Dimensions (mm) (Lead Inclusive)*
TT6P4-P	SMT		25.85 x L x 7.01
TT6P5-P	SMT		31.14 x L x 7.01
TT6P6-P	SMT		37.16 x L x 7.01
TT6P2-F	Flatpack		17.00 x L x 6.50
TT6P3-F	Flatpack		24.00 x L x 6.50
TT6P2-T	Through Hole		13.00 x L x 6.50
TT6P3-T	Through Hole		20.00 x L x 6.50
TT4P4-T-R	SMT		16.10 x 19.30 x 4.98
TT6P10-T-R	SMT		62.79 x 21.23 x 7.01
Notch Filter Connecterized	SMA		57.79 x 55.75 x 20.62
Connecterized Filter Assembly	SMA		31.12 x 55.50 x 144.27

*Dimensions indicated: lead tip to lead tip x body width x total thickness.

**These products are produced by Trans-Tech (a wholly owned subsidiary of Skyworks Solutions Inc.)

WARRANTY/ORDER INFORMATION

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Warranty

Skyworks provides world-class warranty coverage for all products purchased.

A full statement of Terms and Conditions of Sales is included with the order acknowledgment.

Customer Satisfaction

As an integral part of our total quality management, Skyworks primary focus is customer satisfaction. Our reputation with customers for impeccable quality is the result of an aggressive, ongoing Total Quality Management Program in which each employee accepts responsibility for continuously improving the company's products, processes, and procedures.

To our customers, Skyworks is a trusted partner. We work closely with you to provide product solutions that best achieve your design and manufacturing objectives. Skyworks has a worldwide network of sales representatives, distributors, and experienced application engineers ready to work with you towards your specific product requirements.

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For minimum order requirements, fees, or charges, please contact your local sales representatives or contact us directly. A complete set of Skyworks Terms and Conditions of Sales is available upon request.

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Skyworks requires a Returned Material Authorization (RMA) number prior to returning any product. Please contact your sales representative or contact us directly so that we may help you with your request in the quickest and most efficient manner.

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PART NUMBER INDEX

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
AA100-59LF	22	AS193-73LF	73	CLA4601-219	26	DME2029-255	46
AA101-80LF	22	AS195-306LF	74	CLA4601-240	26	DME2031-000	46
AA102-80LF	22	AS196-307LF	74	CLA4602-000	25	DME2031-225	46
AA103-72LF	22	AS200-313LF	74	CLA4602-203	26	DME2031-235	46
AA104-73LF	22	AS202-321LF	74	CLA4602-210	26	DME2031-255	46
AA105-86LF	22	AS204-80LF	74	CLA4602-219	26	DME2050-000	42
AA106-86LF	22	AS211-334	74	CLA4602-240	26	DME2050-222	42
AA107-310LF	22	AS213-92LF	73	CLA4603-000	25	DME2050-252	42
AA109-310LF	22	AS214-92LF	73	CLA4603-203	26	DME2127-000	41
AA110-85LF	22	AS215-92LF	74	CLA4603-210	26	DME2127-220	41
AA113-310LF	22	AS216-339LF	73	CLA4603-219	26	DME2127-250	41
AA116-72LF	22	AS218-321LF	74	CLA4603-240	26	DME2205-000	43
AA117-85LF	22	AS219-321LF	74	CLA4604-000	25	DME2205-223	43
AA210-25LF	22	AS221-306LF	74	CLA4604-203	26	DME2205-253	43
AA226-87LF	22	AS222-92LF	73	CLA4604-210	26	DME2206-000	43
AA260-85LF	22	AS225-313LF	74	CLA4604-219	26	DME2206-223	43
AA264-87LF	22	AS227-321LF	74	CLA4604-240	26	DME2206-253	43
AF002C1-39LF	73	AS229-350LF	74	CLA4605-000	25	DME2207-000	43
AF002C4-39LF	73	AS230-348LF	74	CLA4605-108	25	DME2207-223	43
APD0505-000	34	AS236-321LF	74	CLA4605-203	26	DME2207-253	43
APD0505-203	34	AS338-12LF	73	CLA4605-210	26	DME2282-000	44
APD0505-210	34	ATN3580-01	24	CLA4605-219	26	DME2282-221	44
APD0505-219	34	ATN3580-02	24	CLA4605-240	26	DME2282-251	44
APD0505-240	34	ATN3580-03	24	CLA4606-000	25	DME2283-000	44
APD0510-000	34	ATN3580-04	24	CLA4606-203	26	DME2283-221	44
APD0510-203	34	ATN3580-05	24	CLA4606-210	26	DME2283-251	44
APD0510-210	34	ATN3580-06	24	CLA4606-219	26	DME2284-000	44
APD0510-219	34	ATN3580-07	24	CLA4606-240	26	DME2284-221	44
APD0510-240	34	ATN3580-08	24	CLA4607-000	25	DME2284-251	44
APD0520-000	34	ATN3580-09	24	CLA4607-108	25	DME2333-000	41
APD0520-203	34	ATN3580-10	24	CLA4607-203	26	DME2333-220	41
APD0520-210	34	ATN3580-12	24	CLA4607-210	26	DME2333-230	41
APD0520-219	34	ATN3580-15	24	CLA4607-219	26	DME2333-250	41
APD0520-240	34	ATN3580-20	24	CLA4607-240	26	DME2458-000	41
APD0805-000	34	ATN3580-30	24	CLA4608-000	25	DME2458-220	41
APD0805-203	34	ATN3580-40	24	CLA4608-203	26	DME2458-230	41
APD0805-210	34	AV101-12LF	23	CLA4608-210	26	DME2459-000	45
APD0805-219	34	AV102-12LF	23	CLA4608-219	26	DME2459-224	45
APD0805-240	34	AV103-12LF	23	CLA4608-240	26	DME2459-234	45
APD0810-000	34	AV104-12LF	23	CME7660-000	50	DME2829-000	42
APD0810-203	34	AV105-12LF	23	CME7660-203	50	DME2829-222	42
APD0810-210	34	AV109-73LF	23	CME7660-207	50	DME2829-252	42
APD0810-219	34	AV110-73LF	23	CX77105	18	DME2830-000	42
APD0810-240	34	AV111-12LF	23	CX77112	17	DME2830-222	42
APD1510-000	34	AV113-12LF	23	CX77144	18	DME2830-232	42
APD1510-203	34	AW002R2-12LF	73	CX77181	18	DME2830-252	42
APD1510-210	34	CDB7619-000	40, 49	DC08-73LF	63	DME2831-000	42
APD1510-219	34	CDB7619-203	49	DC09-73LF	63	DME2831-222	42
APD1510-240	34	CDB7619-207	49	DC15-73LF	63	DME2831-232	42
APD1520-000	34	CDB7620-000	40, 49	DC16-73LF	63	DME2838-000	44
APD1520-203	34	CDB7620-203	49	DC18-73LF	63	DME2838-221	44
APD1520-210	34	CDB7620-207	49	DC25-73LF	63	DME2850-000	46
APD1520-219	34	CDC7630-000	40, 51	DD02-999LF	63	DME2850-225	46
APD1520-240	34	CDC7630-203	51	DDB2265-000	49	DME2850-255	46
APD2220-000	34	CDC7630-207	51	DDB2265-220	49	DME2851-000	46
APD2220-203	34	CDC7631-000	40, 51	DDB2265-230	49	DME2851-225	46
APD2220-210	34	CDC7631-203	51	DDB2265-250	49	DME2851-235	46
APD2220-219	34	CDC7631-207	51	DDB2503-000	49	DME2857-000	45
APD2220-240	34	CDE7618-000	50	DDB2503-220	49	DME2857-224	45
AS002R2-12LF	73	CDE7618-203	50	DDB2503-230	49	DME2857-254	45
AS130-73LF	73	CDE7618-207	50	DDB2503-250	49	DME2858-000	45
AS156-73LF	73	CDF7621-000	40, 50	DDB2504-000	49	DME2858-224	45
AS165-59LF	73	CDF7621-203	50	DDB2504-220	49	DME2858-254	45
AS169-73LF	73	CDF7621-207	50	DDB2504-230	49	DME2859-000	45
AS172-73LF	74	CDF7623-000	40, 50	DDB2504-250	49	DME2859-224	45
AS176-59LF	73	CDF7623-203	50	DDC2353-000	50	DME2859-234	45
AS177-86LF	73	CDF7623-207	50	DDC2353-220	50	DME2859-254	45
AS179-000	73	CDP7624-000	50	DDC2353-250	50	DME2864-000	43
AS179-92LF	73	CDP7624-203	50	DDC2354-000	50	DME2864-223	43
AS183-92LF	73	CDP7624-207	50	DDC2354-220	50	DME2957-000	41
AS186-302LF	74	CLA4601-000	25	DDC2354-250	50	DME2957-220	41
AS188-92LF	73	CLA4601-203	26	DME2029-000	46	DME2957-250	41
AS191-73LF	74	CLA4601-210	26	DME2029-225	46	DME3927-000	47

PART NUMBER INDEX

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
DME3927-100	38, 39	DMF2834-000	43	DMJ2823-000	41	SC02201518	68
DME3927-101	38, 39	DMF2834-223	43	DMJ2823-220	41	SC03301518	68
DME3927-116	48	DMF2835-000	42	DMJ2823-250	41	SC04701518	68
DME3930-000	47	DMF2835-222	42	DMJ2824-000	41	SC06801518	68
DME3930-117	49	DMF2835-252	42	DMJ2824-220	41	SC10002430	68
DME3933-000	47	DMF2837-000	44	DMJ2824-230	41	SC33303440	68
DME3936-000	48	DMF2837-221	44	DMJ2824-250	41	SC50004450	68
DME3938-000	48	DMF2848-000	46	DMJ2825-000	41	SC99906068	68
DME3938-257	47	DMF2848-225	46	DMJ2825-220	41	SIXXXXXXXXXXXXXX	78
DME3943-000	47	DMF2848-235	46	DMJ2825-230	41	SKY12143-315	23
DME3946-000	48	DMF2865-000	45	DMJ2832-000	42	SKY12144-315	23
DME3946-103	38, 39	DMF2865-224	45	DMJ2832-222	42	SKY12145-315	23
DMF2011-000	45	DMF2865-254	45	DMJ2832-232	42	SKY12146-321LF	23
DMF2011-224	45	DMF3926-000	47	DMJ2832-252	42	SKY12322-86LF	22
DMF2011-254	45	DMF3926-100	38, 39	DMJ2833-000	42	SKY12323-303LF	22
DMF2012-000	45	DMF3926-101	38, 39	DMJ2833-222	42	SKY12324-73LF	22
DMF2012-224	45	DMF3926-116	48	DMJ2833-232	42	SKY12325-350LF	22
DMF2012-234	45	DMF3929-000	47	DMJ2836-000	43	SKY12328-350LF	22
DMF2012-254	45	DMF3929-117	49	DMJ2836-223	43	SKY12332-310LF	22
DMF2076-000	46	DMF3932-000	47	DMJ2839-000	44	SKY13251-349LF	74
DMF2076-225	46	DMF3935-000	48	DMJ2839-221	44	SKY13264-340LF	75
DMF2076-255	46	DMF3939-000	48	DMJ2852-000	46	SKY13267-321LF	74
DMF2077-000	46	DMF3939-257	47	DMJ2852-225	46	SKY13268-344LF	74
DMF2077-225	46	DMF3942-000	47	DMJ2852-235	46	SKY13270-92LF	73
DMF2077-255	46	DMF3945-000	48	DMJ2990-000	45	SKY13272-340LF	75
DMF2078-000	46	DMF3945-103	38, 39	DMJ2990-224	45	SKY13274-349LF	74
DMF2078-225	46	DMJ2088-000	46	DMJ2990-254	45	SKY13276-334	74
DMF2078-235	46	DMJ2088-225	46	DMJ3928-000	47	SKY13277-355LF	74
DMF2078-255	46	DMJ2088-255	46	DMJ3928-100	38, 39	SKY13278-313LF	73
DMF2182-000	43	DMJ2092-000	42	DMJ3928-101	38, 39	SKY13282-334	73
DMF2182-223	43	DMJ2092-222	42	DMJ3928-116	48	SKY13286-359LF	74
DMF2182-253	43	DMJ2092-252	42	DMJ3931-000	47	SKY13290-313LF	73
DMF2183-000	43	DMJ2093-000	42	DMJ3931-117	49	SKY13292-365LF	75
DMF2183-223	43	DMJ2093-222	42	DMJ3934-000	47	SKY13296-340LF	74
DMF2183-253	43	DMJ2093-252	42	DMJ3937-000	48	SKY13299-321LF	74
DMF2184-000	43	DMJ2208-000	43	DMJ3940-000	48	SKY13306-313LF	74
DMF2184-223	43	DMJ2208-223	43	DMJ3940-257	47	SKY13309-370LF	74
DMF2184-253	43	DMJ2208-253	43	DMJ3944-000	47	SKY33100-360LF	64
DMF2185-000	44	DMJ2209-000	43	DMJ3947-000	48	SKY42068	69
DMF2185-221	44	DMJ2209-223	43	DMJ3947-103	38, 39	SKY65004-21	20, 65
DMF2185-251	44	DMJ2209-253	43	DMK2308-000	51	SKY65006	21
DMF2186-000	44	DMJ2210-000	43	DMK2790-000	51	SKY65008-21	20, 65
DMF2186-221	44	DMJ2210-223	43	DSG9500-000	34	SKY65009-70LF	20, 65
DMF2186-251	44	DMJ2210-253	43	DSM8100-000	34	SKY65013-214LF	21
DMF2187-000	44	DMJ2246-000	44	HY17-12LF	64	SKY65013-70LF	21
DMF2187-221	44	DMJ2246-221	44	HY19-12LF	64	SKY65013-92LF	21
DMF2187-251	44	DMJ2246-251	44	HY22-73LF	64	SKY65014-214LF	21
DMF2344-000	41	DMJ2303-000	44	HY86-12LF	64	SKY65014-70LF	21
DMF2344-220	41	DMJ2303-221	44	HY92-12LF	64	SKY65014-92LF	21
DMF2344-230	41	DMJ2303-251	44	PD09-73LF	72	SKY65015-214LF	21
DMF2344-250	41	DMJ2304-000	44	PD15-73LF	72	SKY65015-70LF	21
DMF2454-000	45	DMJ2304-221	44	PD16-73LF	72	SKY65015-92LF	21
DMF2454-224	45	DMJ2304-251	44	PD18-73LF	72	SKY65016-214LF	21
DMF2454-234	45	DMJ2312-000	46	PD19-73LF	72	SKY65016-70LF	21
DMF2820-000	41	DMJ2312-225	46	PD22-73LF	72	SKY65016-92LF	21
DMF2820-220	41	DMJ2312-255	46	PD4W09-12LF	72	SKY65017-70LF	21
DMF2820-250	41	DMJ2455-000	45	PD4W09-59LF	72	SKY65028-70LF	20
DMF2821-000	41	DMJ2455-224	45	PD4W18-12LF	72	SKY65028-70LF	65
DMF2821-220	41	DMJ2455-234	45	PD4W18-59LF	72	SKY65111-348LF	21
DMF2821-250	41	DMJ2502-000	45	PS088-315	70	SKY65112-84LF	20
DMF2822-000	41	DMJ2502-224	45	PS094-315	70	SKY65113-84LF	20
DMF2822-220	41	DMJ2502-254	45	PS196-315	70	SKY65116	21
DMF2822-230	41	DMJ2667-000	45	PS214-315	70	SKY65120	20, 65
DMF2826-000	42	DMJ2667-224	45	SC00080912	68	SKY65124	20, 65
DMF2826-222	42	DMJ2667-234	45	SC00120912	68	SKY65131	21
DMF2826-252	42	DMJ2667-254	45	SC00180912	68	SKY65132	21
DMF2827-000	42	DMJ2768-000	46	SC00260912	68	SKY65135-21	21
DMF2827-222	42	DMJ2768-225	46	SC00380912	68	SKY65146	21
DMF2827-232	42	DMJ2768-235	46	SC00560912	68	SKY65225-11	16, 67
DMF2827-252	42	DMJ2768-255	46	SC00680912	68	SKY65227-11	16, 67
DMF2828-000	42	DMJ2777-000	41	SC00821518	68	SKY65228-11	16, 67
DMF2828-222	42	DMJ2777-220	41	SC01000710	68	SKY65230-11	16, 67
DMF2828-232	42	DMJ2777-250	41	SC01500912	68	SKY65241-11	16

PART NUMBER INDEX

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
SKY65241-11	67	SKY77185	17	SMP1321-075LF	28	SMS7621-001LF	36
SKY65243-11	16, 67	SKY77318	8	SMP1321-079LF	28	SMS7621-005LF	36
SKY65249-11	16, 67	SKY77328	8	SMP1321-099	33	SMS7621-006LF	36
SKY65256-11	16, 67	SKY77331	9	SMP1321-508	28	SMS7621-015LF	36
SKY72300-21	65	SKY77334	8	SMP1322-001LF	29	SMS7621-074LF	36
SKY72300-21	71	SKY77336	8	SMP1322-003LF	29	SMS7621-075LF	36
SKY72300-362	65, 71	SKY77340	8	SMP1322-004LF	29	SMS7621-079LF	36
SKY72300-362	71	SKY77413	15	SMP1322-005LF	29	SMS7621-081LF	36
SKY72301-22	65	SKY77414	14	SMP1322-011LF	29	SMS7621-108	36, 50
SKY72301-22	71	SKY77418	17	SMP1322-016LF	29	SMS7621-517	36
SKY72302-21	65	SKY77425	15	SMP1322-017LF	29	SMS7623-108	50
SKY72302-21	71	SKY77433	14	SMP1322-074LF	29	SMS7624-108	50
SKY72310-362	66	SKY77435	15	SMP1322-079LF	29	SMS7630-011LF	37
SKY72310-362LF	71	SKY77436	15	SMP1322-099	33	SMS7630-005LF	37
SKY73001	66	SKY77437	14	SMP1330-005LF	25	SMS7630-006LF	37
SKY73001	69	SKY77500	7	SMP1330-007LF	25	SMS7630-011LF	37
SKY73009	66	SKY77517	16	SMP1340-003LF	27	SMS7630-020LF	37
SKY73009	69	SKY77518	16	SMP1340-004LF	27	SMS7630-079LF	37
SKY73010-21	66, 70	SKY77519	15	SMP1340-005LF	27	SMS7630-109	37, 51
SKY73012	66	SKY77520	11, 15	SMP1340-011LF	27	SMS7630-517	37
SKY73012	69	SKY77521	15	SMP1340-074LF	27	SMS7660-108	50
SKY73013	66	SKY77523	10	SMP1340-075LF	27	SMV1129-079LF	52
SKY73013	69	SKY77524	12	SMP1340-079LF	27	SMV1130-001LF	52
SKY73020	68	SKY77526	15	SMP1340-099	33	SMV1130-079LF	52
SKY73021	68	SKY77531	16	SMP1340-108	27	SMV1135-004LF	52
SKY73022-11	68	SMP1302-001LF	30	SMP1340-508	27	SMV1139-011LF	52
SKY73023-11	68	SMP1302-003LF	30	SMP1345-003LF	26	SMV1142-011LF	53
SKY73025-11	68	SMP1302-004LF	30	SMP1345-004LF	26	SMV1143-011LF	53
SKY73032	69	SMP1302-005LF	30	SMP1345-005LF	26	SMV1144-011LF	53
SKY73033	69	SMP1302-011LF	30	SMP1345-075LF	26	SMV1145-011LF	53
SKY73035-11	69	SMP1302-017LF	30	SMP1345-079LF	26	SMV1145-079LF	53
SKY73062-11	85	SMP1302-027LF	30	SMP1345-108	26	SMV1147-011LF	53
SKY73062-11	69	SMP1302-074LF	30	SMP1345-518	26	SMV1147-079LF	53
SKY73069-11	85	SMP1302-075LF	30	SMP1352-011LF	29	SMV1148-011LF	53
SKY73069-11	69	SMP1302-079LF	30	SMP1352-079LF	29	SMV1206-108	60
SKY73070	69	SMP1302-099	33	SMP1352-108	30	SMV1211-001LF	54
SKY73100	66, 71	SMP1302-108	30	SMP1353-099	33	SMV1212-001LF	54
SKY73100	71	SMP1304-001LF	31	SMS1546-005LF	36	SMV1212-004LF	54
SKY73101	66, 71	SMP1304-004LF	31	SMS3922-001LF	35	SMV1212-074LF	54
SKY73101	71	SMP1304-005LF	31	SMS3922-004LF	35	SMV1212-079LF	54
SKY73103	66, 71	SMP1304-007LF	31	SMS3922-005LF	35	SMV1213-001LF	54
SKY73103	71	SMP1304-011LF	31	SMS3922-011LF	35	SMV1213-004LF	54
SKY73112	66, 71	SMP1304-019LF	31	SMS3922-015LF	35	SMV1213-011LF	54
SKY73112	71	SMP1304-027LF	31	SMS3922-079LF	35	SMV1213-074LF	54
SKY73120	66	SMP1304-099	33	SMS3922-108	35	SMV1213-079LF	54
SKY73201-364LF	64	SMP1304-108	31	SMS3923-001LF	35	SMV1214-001LF	54
SKY73202-364LF	64	SMP1307-001LF	32	SMS3923-005LF	35	SMV1215-001LF	54
SKY74038-21	65	SMP1307-003LF	32	SMS3923-011LF	35	SMV1215-011LF	54
SKY74038-21	71	SMP1307-004LF	32	SMS3923-015LF	35	SMV1231-011LF	55
SKY74117-13A	6, 7	SMP1307-005LF	32	SMS3923-079LF	35	SMV1231-074LF	55
SKY74137	9	SMP1307-006LF	32	SMS3923-081LF	35	SMV1231-079LF	55
SKY74138	10	SMP1307-011LF	32	SMS3923-108	35	SMV1232-011LF	55
SKY74200	11	SMP1307-027LF	32	SMS3923-517	35	SMV1232-074LF	55
SKY74210	13	SMP1320-001LF	28	SMS3924-005LF	35	SMV1232-079LF	55
SKY74218	12	SMP1320-003LF	28	SMS3924-015LF	35	SMV1233-001LF	55
SKY74693	72	SMP1320-004LF	28	SMS3924-075LF	35	SMV1233-004LF	55
SKY74963-23	6	SMP1320-005LF	28	SMS3924-079LF	35	SMV1233-011LF	55
SKY77149	17	SMP1320-007LF	28	SMS3925-079LF	35	SMV1233-074LF	55
SKY77155	18	SMP1320-011LF	28	SMS3926-022LF	39	SMV1233-079LF	55
SKY77161	17	SMP1320-017LF	28	SMS3926-023LF	39	SMV1234-001LF	55
SKY77162	18	SMP1320-074LF	28	SMS3926-099	40	SMV1234-004LF	55
SKY77163-12	18	SMP1320-075LF	28	SMS3927-023LF	39	SMV1234-011LF	55
SKY77164	17	SMP1320-077LF	28	SMS3927-099	40	SMV1234-073LF	55
SKY77166	18	SMP1320-079LF	28	SMS3928-023LF	39	SMV1234-079LF	55
SKY77170	17	SMP1320-099	33	SMS3928-099	40	SMV1235-001LF	55
SKY77173	17	SMP1321-001LF	28	SMS3929-021LF	39	SMV1235-004LF	55
SKY77174	17	SMP1321-003LF	28	SMS3930-021LF	39	SMV1235-011LF	55
SKY77175	18	SMP1321-004LF	28	SMS3931-021LF	39	SMV1235-074LF	55
SKY77176	17	SMP1321-005LF	28	SMS3940-026LF	39	SMV1235-079LF	55
SKY77177	18	SMP1321-007LF	28	SMS3940-029LF	39	SMV1236-001LF	55
SKY77178	17	SMP1321-011LF	28	SMS7618-108	50	SMV1236-004LF	55
SKY77179	18	SMP1321-073LF	28	SMS7619-109	49, 51	SMV1236-011LF	55
SKY77182	17	SMP1321-074LF	28	SMS7620-109	49	SMV1236-074LF	55

PART NUMBER INDEX

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
SMV1236-079LF	55	SMV1413-004LF	61	SMV2023-004LF	58	TT4P6-0860.5P0-1937	83
SMV1237-001LF	55	SMV1413-074LF	61	SMV2023-011LF	58	TT4P6-2122P0-2835	82
SMV1245-011LF	57	SMV1413-079LF	61	SMV2023-203	60	TT6P10-R1950-T2140	83
SMV1247-011LF	56	SMV1413-203	62	SMV2023-210	60	TT6P2-0770T-1215	82
SMV1247-074LF	56	SMV1413-210	62	SMV2023-219	60	TT6P2-0902F-2518	83
SMV1247-079LF	56	SMV1413-219	62	SMV2023-240	60	TT6P2-0915T-2518	83
SMV1248-001LF	56	SMV1413-240	62	SPD1101-111	63	TT6P3-0445.25T-0145	84
SMV1248-074LF	56	SMV1493-000	62	SPD1102-111	63	TT6P3-0730P3-1213	84
SMV1248-079LF	56	SMV1493-079LF	61	SPD1103-111	63	TT6P3-0740P3-2020	84
SMV1249-001LF	56	SMV1493-203	62	SRXXXXXXXXXXXXXX	77	TT6P3-0745.3P3-1920	84
SMV1249-003LF	56	SMV1493-210	62	TT3P2-1068P0-3507	82	TT6P3-0770T-1225	82
SMV1249-004LF	56	SMV1493-219	62	TT3P2-1880P0-6010	83	TT6P3-0770T-2020	82
SMV1249-011LF	56	SMV1493-240	62	TT3P3-0881.5P2-2530	83	TT6P3-0826.5P3-0520	84
SMV1249-074LF	56	SMV1494-000	62	TT3P3-1088P2-9015	84	TT6P3-0827P3-0620	84
SMV1249-079LF	56	SMV1494-079LF	61	TT3P3-1227.6P1-1030	84	TT6P3-0836T-2520	83
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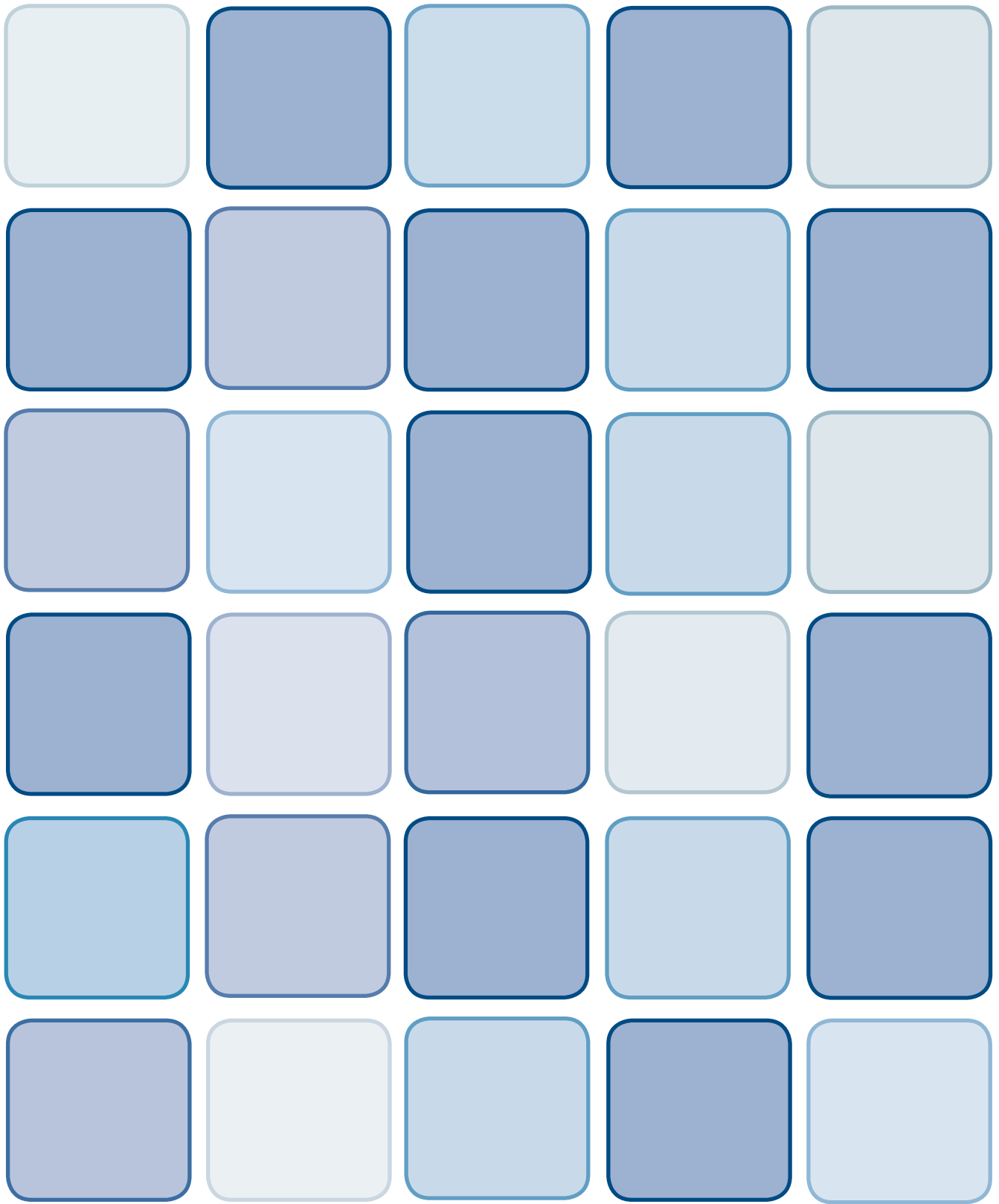
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