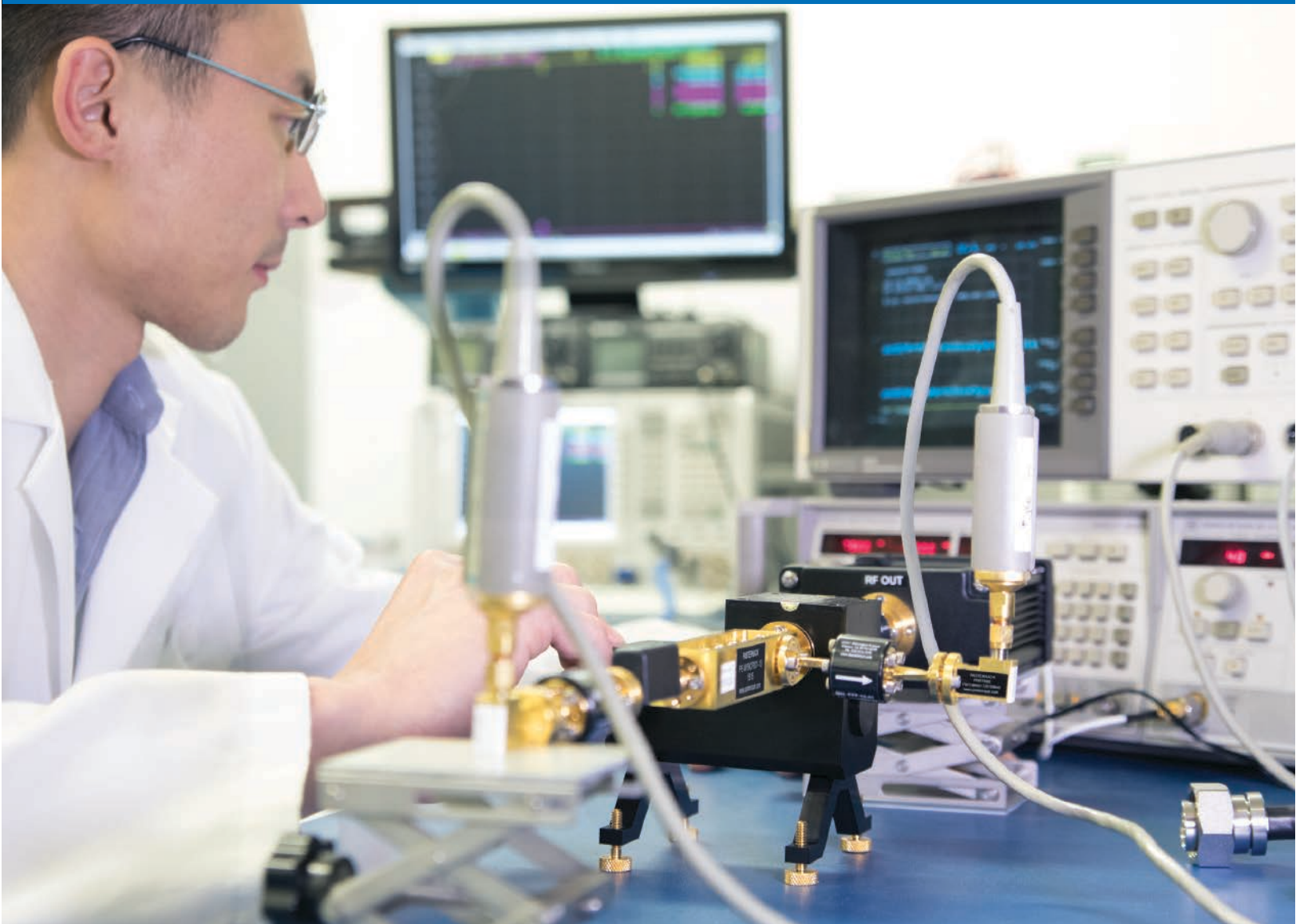


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RF Product Guide 2019

Amplifiers



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Amplifiers Selection Guide

3 Easy Ways to Find your Product.....

1. Search by PE Part Number

If you know the PE part number you are searching for, please reference our Part Number Index on Page 245.

2. Quick Reference Guide

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Amplifiers

3. Amplifiers Locator

Frequency	Model No.	Page	C/R
0.009 MHz to:			
3 GHz	PE15A1007	47	44
0.01 MHz to:			
500 MHz	PE15A1046	47	45
1.4 GHz	PE15A1055	47	46
2 GHz	PE15A1059	47	47
3 GHz	PE15A3308	44	56
0.03 MHz to:			
600 MHz	PE15A1047	47	48
0.1 MHz to:			
10 GHz	PE15A3311	44	57
0.15 MHz to:			
230 MHz	PE15A5028	50	70
	PE15A5028F	50	71
0.3 MHz to:			
6.5 GHz	PE15A3310	44	58
0.5 MHz to:			
500 MHz	PE15A5029	50	72
	PE15A5029F	50	73
1 MHz to:			
500 MHz	PE15A1045	47	49
1 GHz	PE15A5030	49	16
	PE15A5030F	49	17
3 GHz	PE15A3309	44	59
10 MHz to:			
250 MHz	PE15A1043	47	50
550 MHz	PE15A1044	47	51
600 MHz	PE15A1063	47	52
800 MHz	PE15A1048	47	53
	PE15A1065	47	54
1 GHz	PE15A1011	47	55
	PE15A63000	47	56
	PE15A1049	47	57
	PE15A1012	47	58
	PE15A63001	47	59
	PE15A1013	47	60
	PE15A1052	47	61

Frequency	Model No.	Page	C/R
10 MHz to:			
1.3 GHz	PE15A1054	47	62
	PE1514	45	14
	PE1528	45	15
3 GHz	PE1513	45	16
	PE15A1009	47	63
	PE15A4031	43	4
	PE15A4032	43	5
	PE15A3269	44	60
6 GHz	PE15A8001	45	17
	PE15A3037	45	1
	PE15A3036	43	6
15 GHz	PE15A4029	43	7
20 GHz	PE15A3272	44	61
20 MHz to:			
1 GHz	PE15A1051	47	64
	PE15A1064	47	65
	PE15A5031	50	74
	PE15A5031F	50	75
	PE15A4072	49	18
1.5 GHz	PE15A1057	47	66
3 GHz	PE15A1008	47	67
	PE15A4017	49	19
4 GHz	PE15A1061	47	68
30 MHz to:			
1.5 GHz	PE15A63002	47	69
	PE15A63003	47	70
2.5 GHz	PE15A5011	49	20
3 GHz	PE15B5002	43	1
	PE15A4018	49	21
20 GHz	PE15A3254	44	62
40 GHz	PE15A3023	43	8
40 MHz to:			
3 GHz	PE15A1060	47	71
50 MHz to:			
1 GHz	PE1517	45	18
	PE15A9001	46	38

Frequency	Model No.	Page	C/R
50 MHz to:			
1 GHz	PE15A1050	47	72
	PE15A1014	47	73
	PE15A4009	49	22
1.2 GHz	PE15A1053	47	74
2 GHz	PE1518	45	19
	PE15A1042	48	75
4 GHz	PE15A8000	45	20
18 GHz	PE15A3900	45	94
40 GHz	PE15A3901	45	95
60 MHz to:			
6 GHz	PE15A4019	49	23
100 MHz to:			
2 GHz	PE15A1066	48	76
3 GHz	PE1516	45	21
6 GHz	PE15A5027	49	24
12 GHz	PE15A3007	43	9
18 GHz	PE15A3255	44	63
	PE15A3256	44	64
	PE15A4052	49	25
	PE15A7000	51	14
26.5 GHz	PE15A3267	44	65
110 MHz to:			
6 GHz	PE15A3004	43	10
10 GHz	PE15A3001	43	11
200 MHz to:			
2.5 GHz	PE1525	45	22
300 MHz to:			
18 GHz	PE15A3021	43	12
500 MHz to:			
2 GHz	PE15A4038	43	13
	PE15A3014	43	14
	PE15A3015	43	15
	PE15A8004	46	23
	PE15A8005	46	24
2.5 GHz	PE15A4039	43	16
2.8 GHz	PE15A5013	50	76



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Amplifiers Locator

Frequency	Model No.	Page	C/R
500 MHz to:			
3 GHz	PE15A1017	48	77
	PE15A1018	48	78
	PE15A5032	50	77
	PE15A5032F	50	78
4 GHz	PE15A2000	47	39
	PE15A1068	48	79
	PE15A4053	49	26
6 GHz	PE15A4037	43	17
10 GHz	PE15A3005	43	18
18 GHz	PE15A3008	43	19
	PE15A3263	43	20
	PE15A2003	47	42
20 GHz	PE15A3253	44	66
700 MHz to:			
2.2 GHz	PE15A5004	50	79
	PE15A1067	48	80
2.7 GHz	PE15A5033	49	27
	PE15A5033F	49	28
6 GHz	PE15A5017	49	29
800 MHz to:			
960 MHz	PE15A5040	50	80
	PE15A5041	50	81
1 GHz	PE15A5010	50	82
2 GHz	PE15A5035	50	83
	PE15A5035F	50	84
2.5 GHz	PE15A5020	50	85
4.2 GHz	PE15A5034F	49	30
	PE15A5034	49	31
5.5 GHz	PE15A3264	43	21
820 MHz to:			
960 MHz	PE15A4026	49	32
860 MHz to:			
960 MHz	PE15A5042	50	86
	PE15A5039	50	87
900 MHz to:			
1.2 GHz	PE15A63004	48	81
	PE15A63005	48	82
1 GHz to:			
1.4 GHz	PE15A63006	48	83
	PE15A6002	46	33
2 GHz	PE15A1000	48	84
	PE15A1019	48	85
	PE15A4025	49	33
	PE15A4016	49	34
	PE15A5036F	50	88
2.5 GHz	PE15A5036	50	89
	PE15A5037	50	90
3 GHz	PE15A5037F	50	91
	PE15A5026	49	35
	PE1519	46	25
4 GHz	PE15A1070	48	86
12 GHz	PE15A1031	48	87
18 GHz	PE15A3262	43	22
20 GHz	PE15A3500	45	2
	PE15A3513	45	3
40 GHz	PE15A3514	45	4
	PE15A3515	45	5
	PE15A3595	45	6
1.2 GHz to:			
1.4 GHz	PE15A1023	48	88
	PE15A1024	48	89
	PE15A1005	48	90
	PE15A5001	50	92
	PE15A4010	49	36
1.6 GHz	PE15A1028	48	91
1.215 GHz to:			
1.4 GHz	PE15A1039	48	92
	PE15A1040	48	93
1.35 GHz to:			
1.39 GHz	PE15B5001	43	2
1.5 GHz to:			
3.5 GHz	PE15A5005	50	93
5 GHz	PE15A1034	48	94
1.7 GHz to:			
2 GHz	PE15A5014	51	94
2.5 GHz	PE15A5015	51	95
1.8 GHz to:			
4.2 GHz	PE15A3276	44	67
2 GHz to:			
2.6 GHz	PE15A63007	48	95
	PE1520	46	26
4 GHz	PE15A6015	46	34
	PE15A1001	48	96
	PE15A5038	51	96
	PE15A5038F	51	97
	PE15A4011	49	37

Frequency	Model No.	Page	C/R
2 GHz to:			
6 GHz	PE15A4040	43	23
	PE15A4041	43	24
	PE15A4003	43	25
	PE15A4005	43	26
	PE15A4042	43	27
	PE15A4043	43	28
	PE15A3503	44	51
	PE15A3504	44	52
	PE1521	46	27
	PE15A6007	46	35
	PE15A2001	47	40
	PE15A1010	48	97
	PE15A5047	51	98
	PE15A5024	49	38
	PE15A5025	49	39
	PE15A3016	43	29
	PE15A3290	44	68
8 GHz	PE15A3291	44	69
	PE15A6008	46	36
12 GHz	PE15A4054	49	40
	PE15A4055	49	41
18 GHz	PE15A4051	43	30
	PE15A3265	43	31
	PE15A3022	43	32
	PE15A3301	44	70
	PE15A3257	44	71
	PE15A3258	44	72
	PE1524	46	28
	PE15A1030	48	98
	PE15A4056	49	42
	PE15A4057	49	43
20 GHz	PE15A4027	43	33
	PE15A4030	43	34
	PE15A3271	44	73
PE15A3270	44	74	
PE15A4058	49	44	
24 GHz	PE15A3009	43	35
35 GHz	PE15A3038	43	36
2.2 GHz to:			
2.7 GHz	PE15A5022	49	45
2.3 GHz to:			
2.7 GHz	PE15A5018	51	99
2.4 GHz to:			
2.5 GHz	PE15B5000	43	3
2.5 GHz to:			
4 GHz	PE15A5006	51	1
2.6 GHz to:			
3.1 GHz	PE15A63008	48	99
4.2 GHz	PE15A5007	51	2
3 GHz to:			
8 GHz	PE15A1035	48	1
3.1 GHz to:			
3.5 GHz	PE15A4046	43	37
	PE15A1006	48	2
	PE15A5023	51	3
	PE15A5003	51	4
PE15A5002	49	46	
3.5 GHz to:			
7 GHz	PE15A5008	51	5
	PE15A4012	49	47
4 GHz to:			
8 GHz	PE1522	46	29
	PE15A1002	48	3
5 GHz to:			
9 GHz	PE15A9002	48	4
5.5 GHz to:			
9.5 GHz	PE15A5009	51	6
6 GHz to:			
12 GHz	PE15A4044	43	38
	PE15A4045	43	39
	PE15A4001	43	40
	PE15A4004	43	41
	PE15A3506	44	53
	PE15A3505	44	54
	PE15A3292	44	75
	PE15A3293	44	76
	PE15A8006	46	30
	PE15A1032	48	5
	PE15A1072	48	6
	PE15A4060	49	48
	PE15A3018	44	42
	PE15A3019	44	43
	PE15A3017	44	44
	PE15A3020	44	45
	PE15A3295	44	77
PE15A3302	44	78	

Frequency	Model No.	Page	C/R
6 GHz to:			
18 GHz	PE15A3294	44	79
	PE15A3259	44	80
	PE15A8007	46	31
	PE1523	46	32
	PE15A6012	46	37
	PE15A2002	47	41
	PE15A2004	47	43
	PE15A1071	48	7
	PE15A5050	51	7
	PE15A5049	51	8
	PE15A4061	49	49
	PE15A5048	49	50
PE15A4062	49	51	
6.4 GHz to:			
7.1 GHz	PE15A5016	49	52
7 GHz to:			
11 GHz	PE15A1033	48	8
17 GHz	PE15A3273	44	81
7.2 GHz to:			
7.5 GHz	PE15A5019	49	53
7.5 GHz to:			
11 GHz	PE15A4013	49	54
8 GHz to:			
11 GHz	PE15A4014	49	55
	PE15A4015	49	56
12 GHz	PE15A1027	48	9
	PE15A1026	48	10
	PE15A1003M	48	11
	PE15A1003	48	12
	PE15A1025	48	13
	PE15A5053	51	9
	PE15A5052	51	10
PE15A5051	49	57	
PE15A4008	49	58	
12.4 GHz	PE15A4063	49	59
8.5 GHz to:			
10.5 GHz	PE15A5044	51	11
	PE15A5043	51	12
11 GHz	PE15A4006	49	60
	PE15A4007	49	61
12 GHz to:			
18 GHz	PE15A4002	44	46
	PE15A3507	44	55
	PE15A3296	44	82
	PE15A1004	48	14
12.4 GHz to:			
26.5 GHz	PE15A3024	44	47
14.4 GHz to:			
15.4 GHz	PE15A5021	49	62
17 GHz to:			
24 GHz	PE15A4028	44	48
27 GHz	PE15A3274	44	83
17.5 GHz to:			
21.5 GHz	PE15A4020	51	13
18 GHz to:			
26.5 GHz	PE15A3303	44	84
	PE15A3260	44	85
	PE15A4064	49	63
	PE15A4021	49	64
	PE15A5054	49	65
	PE15A3025	44	49
40 GHz	PE15A3268	44	86
	PE15A3304	44	87
	PE15A3305	44	88
	PE15A4065	50	66
20 GHz to:			
40 GHz	PE15A3501	45	7
	PE15A3508	45	8
	PE15A3509	45	9
	PE15A3502	45	10
	PE15A3510	45	11
	PE15A3512	45	12
PE15A3511	45	13	
26.5 GHz to:			
40 GHz	PE15A4022	44	50
	PE15A3261	44	89
	PE15A3266	44	90
	PE15A3306	44	91
	PE15A3307	44	92
	PE15A3300	48	15
	PE15A4050	50	67
	PE15A4067	50	68
29 GHz to:			
36 GHz	PE15A3275	44	93
30 GHz to:			
40 GHz	PE15A4069	50	69

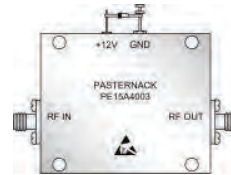
BI-DIRECTIONAL AMPLIFIERS



Amplifier Type	Frequency Band (GHz.)	Tx Gain (dB)	Gain Var. ±(dB)	P1dB Linear (W)	Rx P1dB (dBm)	Rx NF (dB)	DC Power Tx (V/mA)	ECCN	Model No	1	2-4	5-9	10+	ROW
										\$	\$	\$	\$	
Bi-Directional, High Rel	30 MHz - 3	23	1.5	0.003	4	4	28/600	EAR99	PE15B5002	\$5,240.65	\$4,926.21	\$4,664.18	\$4,454.55	1
	1.35 - 1.39	22					28/2,400	EAR99	PE15B5001	\$6,129.41	\$5,761.65	\$5,455.17	\$5,210.00	2
	2.4 - 2.5	20	0.5	0.1	20	2.5	28/2,400	EAR99	PE15B5000	\$6,247.71	\$5,872.85	\$5,560.46	\$5,310.55	3

Amplifiers

BROADBAND AMPLIFIERS



Amplifier Type	Frequency Band (GHz.)	Gain (dB)	Gain Var. ±(dB)	NF (dB)	P1dB (dBm)	Psat (dBm)	DC Power (V/mA)	ECCN	Model No	1	2-4	5-9	10+	ROW			
										\$	\$	\$	\$				
Broadband, High Rel	10 MHz - 6	13	0.75	5	29.5		15/450	EAR99	PE15A4031	\$3,126.22	\$2,938.65	\$2,782.34	\$2,657.29	4			
		24					15/740	EAR99	PE15A4032	\$4,008.13	\$3,767.64	\$3,567.24	\$3,406.91	5			
	10 MHz - 15	12	0.3	4.5	28	29	14/360	EAR99	PE15A3036	\$6,393.93	\$6,010.29	\$5,690.60	\$5,434.84	6			
Broadband	10 MHz - 20	13	0.75	3	23	25	15/225	EAR99	PE15A4029	\$5,186.23	\$4,875.06	\$4,615.74	\$4,408.30	7			
	30 MHz - 40	25		6	12		12/500	EAR99	PE15A3023	\$8,422.49	\$7,917.14	\$7,496.02	\$7,159.12	8			
	100 MHz - 12	18	1	3	25	28	12/300	EAR99	PE15A3007	\$2,234.66	\$2,100.58	\$1,988.85	\$1,899.46	9			
	110 MHz - 6	11	1.25	6.5	27	30	12/300	EAR99	PE15A3004	\$2,349.55	\$2,208.58	\$2,091.10	\$1,997.12	10			
	110 MHz - 10	10	1.5				12/300	EAR99	PE15A3001	\$2,637.69	\$2,479.43	\$2,347.54	\$2,242.04	11			
	300 MHz - 18	37	2		30.5		15/750	EAR99	PE15A3021	\$5,492.39	\$5,162.85	\$4,888.23	\$4,668.53	12			
Broadband, High Rel	500 MHz - 2	14	0.4	2.7	24		12/180	EAR99	PE15A4038	\$1,042.00	\$979.48	\$927.38	\$885.70	13			
		30	0.6				12/240	EAR99	PE15A3014	\$1,114.94	\$1,048.04	\$992.30	\$903.10	14			
		46	0.8				12/300	EAR99	PE15A3015	\$1,319.88	\$1,240.69	\$1,174.69	\$1,069.10	15			
Broadband	500 MHz - 2.5	24	0.5	3.5		33	12/240	EAR99	PE15A4039	\$1,250.40	\$1,175.38	\$1,112.86	\$1,062.84	16			
		30		33			28/600	EAR99	PE15A4037	\$4,445.88	\$4,179.13	\$3,956.83	\$3,779.00	17			
		32	1				12/375	EAR99	PE15A3005	\$2,644.00	\$2,485.36	\$2,353.16	\$2,247.40	18			
Broadband, High Rel	500 MHz - 10	27	2.5	3	25		12/330	EAR99	PE15A3008	\$2,586.02	\$2,430.86	\$2,301.56	\$2,198.12	19			
		33	1.5				4	15	12/220	EAR99	PE15A3263	\$2,372.64	\$2,230.28	\$2,111.65	\$2,016.74	20	
		20	0.5					25	28	12/750	EAR99	PE15A3264	\$1,512.58	\$1,421.83	\$1,346.20	\$1,285.69	21
	Broadband, High Rel	1 - 18	30	1.5		19	20	12/240	EAR99	PE15A3262	\$2,675.86	\$2,515.31	\$2,381.52	\$2,274.48	22		
			13	0.4	5.4	23		12/180	EAR99	PE15A4040	\$1,458.80	\$1,371.27	\$1,298.33	\$1,239.98	23		
			22	0.6				12/420	EAR99	PE15A4041	\$2,031.90	\$1,909.99	\$1,808.39	\$1,727.12	24		
		2 - 6	32			33		15/1,700	EAR99	PE15A4003	\$3,181.06	\$2,990.20	\$2,831.14	\$2,703.90	25		
			33	1	5	30		12/1,000	EAR99	PE15A4005	\$2,952.33	\$2,775.19	\$2,627.57	\$2,509.48	26		
			36	1.5	6	34		15/2,200	EAR99	PE15A4042	\$3,751.20	\$3,526.13	\$3,338.57	\$3,188.52	27		
		2 - 8	44	1	4.5	35		12/4,200	EAR99	PE15A4043	\$3,994.33	\$3,754.67	\$3,554.95	\$3,395.18	28		
			33			29.4		8.5/941	EAR99	PE15A3016	\$2,550.07	\$2,397.07	\$2,269.56	\$2,167.56	29		
			12			16		12/65	EAR99	PE15A4051	\$1,569.83	\$1,475.64	\$1,397.15	\$1,334.36	30		
Broadband, High Rel	2 - 18	33	1.5	3.5	13		12/180	EAR99	PE15A3265	\$2,437.53	\$2,291.28	\$2,169.40	\$1,974.40	31			
Broadband		37			30.5		15/850	EAR99	PE15A3022	\$4,689.00	\$4,407.66	\$4,173.21	\$3,985.65	32			
Broadband, High Rel	2 - 20	15	0.75	3	26		12/310	EAR99	PE15A4027	\$5,762.10	\$5,416.37	\$5,128.27	\$4,897.79	33			
31	15/400	EAR99					PE15A4030	\$3,774.49	\$3,548.02	\$3,359.30	\$3,208.32	34					
Broadband	2 - 24	12			28		12/260	EAR99	PE15A3009	\$2,042.49	\$1,919.94	\$1,817.82	\$1,715.69	35			
Broadband, High Rel	2 - 35	12	0.4		18	18.5		3A001.B.4.C	PE15A3038	\$6,913.84	\$6,499.01	\$6,153.32	\$5,876.76	36			
		30	0.7	4.5	30		12/900	EAR99	PE15A4046	\$2,361.88	\$2,220.17	\$2,102.07	\$2,007.60	37			
	6 - 12	16	0.6	5	27		12/400	EAR99	PE15A4044	\$2,084.00	\$1,958.96	\$1,854.76	\$1,771.40	38			
		28	0.8				12/500	EAR99	PE15A4045	\$2,361.88	\$2,220.17	\$2,102.07	\$2,007.60	39			
		37	1.5				6	33		15/2,500	EAR99	PE15A4041	\$3,544.08	\$3,331.44	\$3,154.23	\$3,012.47	40
		38	1				5	30		15/1,300	EAR99	PE15A4004	\$3,264.93	\$3,069.03	\$2,905.79	\$2,775.19	41

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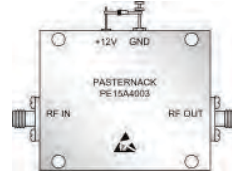
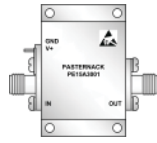
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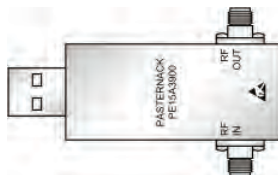
Amplifiers



Amplifier Type	Frequency Band (GHz.)	Gain (dB)	Gain Var. ±(dB)	NF (dB)	P1dB (dBm)	Psat (dBm)	DC Power (V/mA)	ECCN	Model No	1	2-4	5-9	10+	ROW						
Broadband, High Rel	6 - 18	30	1	3.5	28		12/1,300	EAR99	PE15A3018	\$2,986.38	\$2,807.20	\$2,657.88	\$2,418.97	42						
			1.5				18/1,700	EAR99	PE15A3019	\$3,790.80	\$3,563.35	\$3,373.81	\$3,222.18	43						
		36	2	5.4	15/800		EAR99	PE15A3017	\$3,212.83	\$3,020.06	\$2,859.42	\$2,730.91	44							
		42			12/900		EAR99	PE15A3020	\$3,166.66	\$2,976.66	\$2,818.33	\$2,564.99	45							
Broadband	12 - 18	33	3	6	30		15/2,000	EAR99	PE15A4002	\$3,423.05	\$3,217.67	\$3,046.51	\$2,909.59	46						
							3	12/500	EAR99	PE15A3024	\$6,629.84	\$6,232.05	\$5,900.56	\$5,635.36	47					
Broadband, High Rel	17 - 24	22			24		12/	EAR99	PE15A4028	\$3,774.49	\$3,548.02	\$3,359.30	\$3,208.32	48						
Broadband	18 - 40	30	2.5	6.5	20		12/350	EAR99	PE15A3025	\$6,009.22	\$5,648.67	\$5,348.21	\$5,107.84	49						
	26.5 - 40		2	6			12/350	EAR99	PE15A4022	\$5,556.99	\$5,223.57	\$4,945.72	\$4,723.44	50						
High Gain, High Rel	2 - 6	44	1	5	30		15/1,050	EAR99	PE15A3503	\$2,957.52	\$2,780.07	\$2,632.19	\$2,513.89	51						
							15/1,750	EAR99	PE15A3504	\$3,723.76	\$3,500.33	\$3,314.15	\$3,165.20	52						
	6 - 12	47	1.5	6	33		15/2,500	EAR99	PE15A3506	\$3,817.28	\$3,588.24	\$3,397.38	\$3,244.69	53						
							48	1	5	15/1,350	EAR99	PE15A3505	\$3,215.44	\$3,022.51	\$2,861.74	\$2,733.12	54			
	12 - 18	43	2	6	30		15/2,000	EAR99	PE15A3507	\$3,614.12	\$3,397.27	\$3,216.57	\$3,072.00	55						
							15/47	EAR99	PE15A3308	\$750.24	\$705.23	\$667.71	\$637.70	56						
Low Noise	0.01 MHz - 3	16	1.5	4	12		12/110	EAR99	PE15A3311	\$875.28	\$822.76	\$779.00	\$743.99	57						
	0.1 MHz - 10	33	6.5	5	13		12/120	EAR99	PE15A3310	\$875.28	\$822.76	\$779.00	\$743.99	58						
	0.3 MHz - 6.5	39	4.5	4	17		15/110	EAR99	PE15A3309	\$847.49	\$796.64	\$754.27	\$720.37	59						
	1 MHz - 3	21	1.5	4	22		12/130	EAR99	PE15A3269	\$541.84	\$509.33	\$482.24	\$460.56	60						
Low Noise, High Rel	10 MHz - 20	15	0.5	3	22	24	12/195	EAR99	PE15A3272	\$5,186.23	\$4,875.06	\$4,615.74	\$4,408.30	61						
	30 MHz - 20		2.5		20		15/180	EAR99	PE15A3254	\$3,171.20	\$2,980.93	\$2,822.37	\$2,695.52	62						
Low Noise	100 MHz - 18	14	1.5	16	18		12/80	EAR99	PE15A3255	\$1,346.75	\$1,265.95	\$1,198.61	\$1,144.74	63						
		28	2.5				12/160	EAR99	PE15A3256	\$2,469.54	\$2,321.37	\$2,197.89	\$2,000.33	64						
Low Noise, High Rel	100 MHz - 26.5	15	2	5	15		15/200	EAR99	PE15A3267	\$4,747.62	\$4,462.76	\$4,225.38	\$3,845.57	65						
	500 MHz - 20	14	1.75	3	14		15/75	EAR99	PE15A3253	\$2,693.07	\$2,531.49	\$2,396.83	\$2,289.11	66						
	1.8 - 4.2	26		1.2	15.5		17.5	12/105	EAR99	PE15A3276	\$6,416.96	\$6,031.94	\$5,711.09	\$5,454.42	67					
								14	12/120	EAR99	PE15A3290	\$1,736.68	\$1,632.48	\$1,545.65	\$1,476.18	68				
Low Noise	2 - 8	30	2.5	13			12/150	EAR99	PE15A3291	\$2,084.00	\$1,958.96	\$1,854.76	\$1,771.40	69						
							13.5/100	EAR99	PE15A3301	\$5,446.20	\$5,119.43	\$4,847.12	\$4,629.27	70						
							20	2.5	3.5	10	12/150	EAR99	PE15A3257	\$1,733.62	\$1,629.60	\$1,542.92	\$1,473.58	71		
	2 - 18	26	2	3	14			33	1	12/180	EAR99	PE15A3258	\$2,147.70	\$2,018.84	\$1,911.45	\$1,825.55	72			
								13	0.5	2	16	21	12/	EAR99	PE15A3271	\$3,774.49	\$3,548.02	\$3,359.30	\$3,208.32	73
								15	13	15.5	12/78	EAR99	PE15A3270	\$2,695.12	\$2,533.41	\$2,398.66	\$2,290.85	74		
Low Noise, High Rel	6 - 12	17	2.5	7			12/100	EAR99	PE15A3292	\$1,875.60	\$1,763.06	\$1,669.28	\$1,594.26	75						
							30	EAR99	PE15A3293	\$2,222.93	\$2,089.55	\$1,978.41	\$1,889.49	76						
							14	3	13	12/100	EAR99	PE15A3295	\$1,945.08	\$1,828.38	\$1,731.12	\$1,653.32	77			
Low Noise	20	1.5		8		13.5/150	EAR99	PE15A3302	\$5,314.20	\$4,995.35	\$4,729.64	\$4,517.07	78							
Low Noise, High Rel	6 - 18	30		2.5	10		12/200	EAR99	PE15A3294	\$2,361.88	\$2,220.17	\$2,102.07	\$2,007.60	79						
38		2		22		12/280	EAR99	PE15A3259	\$1,545.55	\$1,452.82	\$1,375.54	\$1,313.72	80							
Low Noise, High Rel	7 - 17	22			14		12/	EAR99	PE15A3273	\$3,774.49	\$3,548.02	\$3,359.30	\$3,208.32	81						
	12 - 18	18		3.5	13		12/100	EAR99	PE15A3296	\$1,875.60	\$1,763.06	\$1,669.28	\$1,594.26	82						
	17 - 27	19		2.75	13.5		12/	EAR99	PE15A3274	\$5,762.10	\$5,416.37	\$5,128.27	\$4,897.79	83						
Low Noise	18 - 26.5	30	2.5	3	10		13.5/250	EAR99	PE15A3303	\$5,307.25	\$4,988.82	\$4,723.45	\$4,511.16	84						
		40	1	2	13		12/180	EAR99	PE15A3260	\$1,978.59	\$1,859.87	\$1,760.95	\$1,681.80	85						
Low Noise, High Rel	18 - 40	18	2	5.5	10		15/250	3A001. B.4.C	PE15A3268	\$7,581.60	\$7,126.70	\$6,747.62	\$6,444.36	86						
30		4.5		12/200			EAR99	PE15A3304	\$9,041.10	\$8,498.63	\$8,046.58	\$7,684.94	87							
Low Noise	26.5 - 40	40	4				12/250	EAR99	PE15A3305	\$9,982.36	\$9,383.42	\$8,884.30	\$8,485.01	88						
		22	1	3.5	13.5		12/125	EAR99	PE15A3261	\$1,914.96	\$1,800.06	\$1,704.31	\$1,627.72	89						
		30	2	2	11		12/150	EAR99	PE15A3266	\$5,800.82	\$5,452.77	\$5,162.73	\$4,930.70	90						
			2.5	3	8		12/150	EAR99	PE15A3306	\$8,165.82	\$7,675.87	\$7,267.58	\$6,940.95	91						
		50	3.5	4	10		12/375	EAR99	PE15A3307	\$9,881.63	\$9,288.73	\$8,794.65	\$8,399.39	92						
		Low Noise, High Rel	29 - 36	20		2.9	11		3/80	3A001. B.4.C	PE15A3275	\$3,774.49	\$3,548.02	\$3,359.30	\$3,208.32	93				

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USB CONTROLLED BROADBAND AMPS.



Amplifiers

Amplifier Type	Frequency Band (GHz.)	Gain (dB)	NF (dB)	P1dB (dBm)	Control	ECCN	Model No	1	2-4	5-9	10+	ROW
USB	50 MHz - 18	12	4.5	10	USB	EAR99	PE15A3900	\$3,097.43	\$2,911.58	\$2,756.71	\$2,632.82	94
	50 MHz - 40		5				PE15A3901	\$5,113.48	\$4,806.67	\$4,551.00	\$4,346.46	95

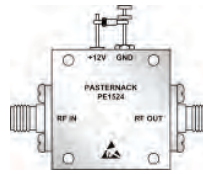
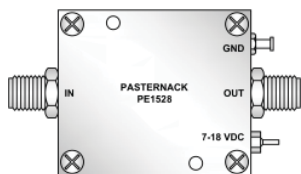
BENCH-TOP AMPLIFIERS



Amplifier Type	Frequency Band (GHz.)	Gain (dB)	Gain Var. ±(dB)	NF (dB)	P1dB (dBm)	DC Power (Optional DC In) (V)	AC Power (V/Cycle)	ECCN	Model No	1	2-4	5-9	10+	ROW
Broadband, High Rel	10 MHz - 15	12	0.3	4	28	16/360		EAR99	PE15A3037	\$6,565.04	\$6,171.14	\$5,842.89	\$5,580.28	1
High Gain, High Rel	1 - 20	60	3	5	10	12/	115/60	EAR99	PE15A3500	\$11,353.64	\$10,672.42	\$10,104.74	\$9,650.59	2
							220/	EAR99	PE15A3513	\$11,444.29	\$10,757.63	\$10,185.42	\$9,727.65	3
	100/	EAR99	PE15A3514				\$15,612.29	\$14,675.55	\$13,894.94	\$13,270.45	4			
	220/	EAR99	PE15A3515				\$15,612.29	\$14,675.55	\$13,894.94	\$13,270.45	5			
	120/60	EAR99	PE15A3595				\$16,004.27	\$15,044.01	\$14,243.80	\$13,603.63	6			
	115/60	EAR99	PE15A3501				\$11,894.96	\$11,181.26	\$10,586.51	\$10,110.72	7			
	20 - 40	30	2	10	/100	100/60	EAR99	PE15A3508	\$11,962.16	\$11,244.43	\$10,646.32	\$10,167.84	8	
					/220	220/	EAR99	PE15A3509	\$11,962.16	\$11,244.43	\$10,646.32	\$10,167.84	9	
					115/60	EAR99	PE15A3502	\$14,601.55	\$13,725.46	\$12,995.38	\$12,411.32	10		
					100/	100/	EAR99	PE15A3510	\$14,570.29	\$13,696.07	\$12,967.56	\$12,384.75	11	
					100/	100/	EAR99	PE15A3512	\$11,444.29	\$10,757.63	\$10,185.42	\$9,727.65	12	
					/220	220/	EAR99	PE15A3511	\$14,570.29	\$13,696.07	\$12,967.56	\$12,384.75	13	

See Our Website For Current Pricing & Real-Time Stock Availability!

GAIN BLOCK AMPLIFIERS



Amplifier Type	Frequency Band (GHz.)	Gain (dB)	Gain Var. ±(dB)	NF (dB)	P1dB (dBm)	IP3 (dBm)	DC Power (V/mA)	ECCN	Model No	1	2-4	5-9	10+	ROW			
Gain Block	10 MHz - 3	12	10	5.5	10		15/40	EAR99	PE1514	Call	Call	Call	Call	14			
		15	2	3	11	12	18/40	EAR99	PE1528	\$124.03	\$116.59	\$110.39	\$105.43	15			
		20	14	2.7	13		15/50	EAR99	PE1513	\$422.01	\$396.69	\$375.59	\$358.71	16			
	10 MHz - 6	15	0.35	4.5	3.5	12	26	12/50	EAR99	PE15A8001	\$690.54	\$649.11	\$614.58	\$586.96	17		
								12/150	EAR99	PE1517	\$496.78	\$466.97	\$442.13	\$422.26	18		
	12/150	EAR99	PE1518	\$561.61				\$527.91	\$499.83	\$477.37	19						
	12/120	EAR99	PE15A8000	\$717.47				\$674.42	\$638.55	\$609.85	20						
	150 MHz - 3	18	18					16		15/120	EAR99	PE1516	\$476.36	\$447.78	\$423.96	\$404.91	21
	200 MHz - 2.5	22	1.25					15		15/120	EAR99	PE1525	\$430.11	\$404.30	\$382.80	\$365.59	22



Free Shipping Available via UPS Ground to USA & Canada

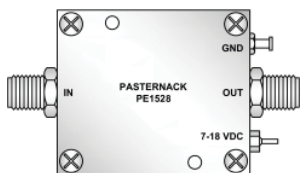


Technical Support (866) 727-8376



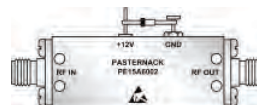
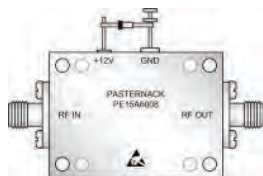
Same-Day Shipping, Even Custom Cable Assemblies

GAIN BLOCK AMPLIFIERS



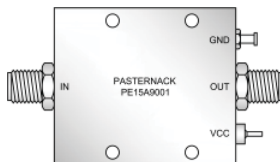
Amplifier Type	Frequency Band (GHz.)	Gain (dB)	Gain Var. ±(dB)	NF (dB)	P1dB (dBm)	IP3 (dBm)	DC Power (V/mA)	ECCN	Model No	1	2-4	5-9	10+	ROW
Gain Block, High Rel	500 MHz - 2	17	0.4	1.8		25	12/70	EAR99	PE15A8004	\$937.80	\$881.53	\$834.64	\$797.13	23
		50	1.8				12/180	EAR99	PE15A8005	\$1,180.93	\$1,110.07	\$1,051.03	\$1,003.79	24
Gain Block	1 - 4	26		2.5	15		12/120	EAR99	PE1519	\$962.50	\$904.75	\$856.63	\$818.13	25
	2 - 4	25	0.5				12/120	EAR99	PE1520	\$812.91	\$764.14	\$723.49	\$690.97	26
	2 - 6	26		3	12/120		EAR99	PE1521	\$822.67	\$773.31	\$732.18	\$699.27	27	
	2 - 18	23	1	3.5	13		12/150	EAR99	PE1524	\$1,151.87	\$1,082.76	\$1,025.16	\$979.09	28
	4 - 8	26	0.5	3	15		12/100	EAR99	PE1522	\$869.67	\$817.49	\$774.01	\$739.22	29
Gain Block, High Rel	6 - 12	12	0.4	2.3	10	20	12/80	EAR99	PE15A8006	\$1,319.88	\$1,240.69	\$1,174.69	\$1,121.90	30
		17	0.6		20		12/160	EAR99	PE15A8007	\$1,736.68	\$1,632.48	\$1,545.65	\$1,476.18	31
Gain Block	6 - 18	22	1	4.5	13		12/150	EAR99	PE1523	\$1,075.07	\$1,010.57	\$956.81	\$913.81	32

LIMITING AMPLIFIERS



Amplifier Type	Frequency Band (GHz.)	Gain (dB)	Gain Var. ±(dB)	NF (dB)	Input Power (dBm)	Psat (dBm)	DC Power (V/mA)	ECCN	Model No	1	2-4	5-9	10+	ROW
Limitings, High Rel	1 - 2	60	3	3	-40 to 10	19	13/250	EAR99	PE15A6002	\$2,228.97	\$2,095.23	\$1,983.78	\$1,894.62	33
	2 - 4	40			-20 to 10		15/200	EAR99	PE15A6015	\$2,396.60	\$2,252.80	\$2,132.97	\$2,037.11	34
	2 - 6	80	3	4	-61 to 10	15	13/550	EAR99	PE15A6007	\$2,857.15	\$2,685.72	\$2,542.86	\$2,428.58	35
	2 - 8	40	2	5	-20 to 20	19	13/300	EAR99	PE15A6008	\$2,197.12	\$2,065.29	\$1,955.44	\$1,867.55	36
	6 - 18			4			13/300	EAR99	PE15A6012	\$2,674.48	\$2,514.01	\$2,380.29	\$2,273.31	37

LINEAR AMPLIFIERS



Amplifier Type	Frequency Band (GHz.)	Gain (dB)	Gain Var. ±(dB)	NF (dB)	P1dB (dBm)	IP3 (dBm)	DC Power (V/mA)	ECCN	Model No	1	2-4	5-9	10+	ROW
Linear	50 MHz - 1	15	0.7	1.5	23	37	12/85	EAR99	PE15A9001	\$332.65	\$322.67	\$312.69	\$302.71	38

PasterFact™:

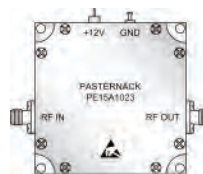
Radio waves weaken by the square of the distance from the starting point.
So, if you are 2x as far away, the signal is 1/4 as strong.

LOG AMPLIFIERS



Amplifier Type	Frequency Band (GHz.)	Typ Recovery Time (ns)	Min TSS (dBm)	Log Linearity \pm (dB)	Log Range (dBm)	Rise Time (ns)	Log Slope (mV/dB)	ECCN	Model No	1	2-4	5-9	10+	ROW
Log, High Rel	500 MHz - 4	40	-73	2.5	-70 to 0	5	25	EAR99	PE15A2000	\$14,466.76	\$13,598.75	\$12,875.42	\$12,296.75	39
	2 - 6	60		1.75	-70 to 5	15	40	EAR99	PE15A2001	\$10,135.66	\$9,527.52	\$9,020.74	\$8,615.31	40
	6 - 18	70	-72	2.5	-70 to 0	50	25	EAR99	PE15A2002	\$14,466.76	\$13,598.75	\$12,875.42	\$12,296.75	41
	500 MHz - 18	150	-65	1.75	-65 to 5	20	20	EAR99	PE15A2003	\$16,799.48	\$15,791.51	\$14,951.54	\$14,279.56	42
	6 - 18		-40	1	-40 to 0		50	EAR99	PE15A2004	\$6,752.97	\$6,347.79	\$6,010.14	\$5,740.02	43

LOW NOISE AMPLIFIERS



Amplifier Type	Frequency Band (GHz.)	Gain (dB)	Gain Var. \pm (dB)	NF (dB)	P1dB (dBm)	IP3 (dBm)	DC Power (V/mA)	ECCN	Model No	1	2-4	5-9	10+	ROW	
Low Noise	0.009 MHz - 3	32	1.25	2.5	16	29	15/110	EAR99	PE15A1007	\$420.80	\$395.55	\$374.51	\$357.68	44	
	0.01 MHz - 500 MHz	45	0.5		11	23	16/75	EAR99	PE15A1046	\$662.41	\$622.67	\$589.54	\$563.05	45	
	0.01 MHz - 1.4	42	1	3	19	32	16/120	EAR99	PE15A1055	\$770.35	\$724.13	\$685.61	\$654.80	46	
	0.01 MHz - 2	28	2	3.2	13	23	18/45	EAR99	PE15A1059	\$558.21	\$524.72	\$496.81	\$474.48	47	
	0.03 MHz - 600 MHz	50	1.2	2.2	14	24	18/85	EAR99	PE15A1047	\$837.32	\$787.08	\$745.21	\$711.72	48	
	1 MHz - 500 MHz	33.5	1.5	2	13		30/40	EAR99	PE15A1045	\$558.21	\$524.72	\$496.81	\$474.48	49	
	10 MHz - 250 MHz	17	0.5	1.4	22	39	5.25/160	EAR99	PE15A1043	\$770.35	\$724.13	\$685.61	\$654.80	50	
	10 MHz - 550 MHz	29.7	0.3	1.7	19	34	15/105	EAR99	PE15A1044	\$699.64	\$657.66	\$622.68	\$594.69	51	
	10 MHz - 600 MHz	40.5	0.8	0.9		15/140	EAR99	PE15A1063	\$1,120.15	\$1,052.94	\$996.93	\$952.13	52		
	10 MHz - 800 MHz	42	0.7	2	27	30	15/100	EAR99	PE15A1048	\$699.64	\$657.66	\$622.68	\$594.69	53	
60		1.5	2.1	15/160		EAR99	PE15A1065	\$1,250.40	\$1,175.38	\$1,112.86	\$1,062.84	54			
Input Protected Low Noise	10 MHz - 1	30	0.7	1	17	32	15/110	EAR99	PE15A1011	\$419.09	\$393.94	\$372.99	\$356.23	55	
15/120				EAR99			PE15A63000	\$611.66	\$574.96	\$544.38	\$519.91	56			
Low Noise		32	1	2	12	23	15/40	EAR99	PE15A1049	\$524.72	\$493.24	\$467.00	\$446.01	57	
High Gain		40		0.8	18		15/110	EAR99	PE15A1012	\$442.94	\$416.36	\$394.22	\$376.50	58	
Input Protected Low Noise		40	1	1.5	17	31.5	15/110	EAR99	PE15A63001	\$611.66	\$574.96	\$544.38	\$519.91	59	
High Gain		50		1.25	1	18	28	15/130	EAR99	PE15A1013	\$494.95	\$465.25	\$440.51	\$420.71	60
Low Noise		10 MHz - 1.3	51	0.8	2.2	13	22	15/88	EAR99	PE15A1052	\$770.35	\$724.13	\$685.61	\$654.80	61
			35	0.5	1.5	20	34	15/165	EAR99	PE15A1054	\$911.75	\$857.05	\$811.46	\$774.99	62
		10 MHz - 3	34	0.75	1.4	11	25	15/95	EAR99	PE15A1009	\$679.80	\$639.01	\$605.02	\$577.83	63
		20 MHz - 1	30	0.5	1.3	18	32	18/140	EAR99	PE15A1051	\$770.35	\$724.13	\$685.61	\$654.80	64
	30.5		0.8	19		34	15/140	EAR99	PE15A1064	\$1,120.15	\$1,052.94	\$996.93	\$952.13	65	
	20 MHz - 1.5	20	1.2	1	17	35	18/70	EAR99	PE15A1057	\$662.41	\$622.67	\$589.54	\$563.05	66	
20 MHz - 3	20	0.75	1.6	13.5	25	15/75	EAR99	PE15A1008	\$543.79	\$511.16	\$483.97	\$462.22	67		
	20 MHz - 4	25	0.7	2	18	34	5.5/160	EAR99	PE15A1061	\$945.24	\$888.53	\$841.26	\$803.45	68	
Input Protected Low Noise	30 MHz - 1.5	29	0.5	1.6	22	39	15/150	EAR99	PE15A63002	\$611.66	\$574.96	\$544.38	\$519.91	69	
					23		15/160	EAR99	PE15A63003	\$611.66	\$574.96	\$544.38	\$519.91	70	
Low Noise	40 MHz - 3	16	1.6	1.3	7	22	3.3/18	EAR99	PE15A1060	\$699.64	\$657.66	\$622.68	\$594.69	71	
	50 MHz - 1	18	0.5	1	16	32	18/70	EAR99	PE15A1050	\$662.41	\$622.67	\$589.54	\$563.05	72	
		19		18	36	12/90	EAR99	PE15A1014	\$279.00	\$262.26	\$248.31	\$237.15	73		
50 MHz - 1.2	47	1	2.2	13	23	15/88	EAR99	PE15A1053	\$770.35	\$724.13	\$685.61	\$654.80	74		

Amplifiers

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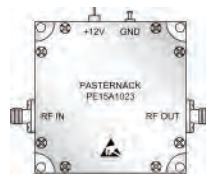


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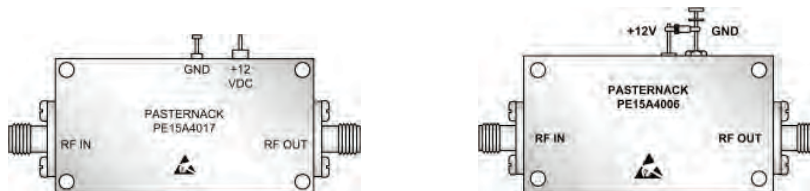


Amplifiers

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Amplifier Type	Frequency Band (GHz.)	Gain (dB)	Gain Var. \pm (dB)	NF (dB)	P1dB (dBm)	IP3 (dBm)	DC Power (V/mA)	ECCN	Model No	1	2-4	5-9	10+	ROW
Low Noise	50 MHz - 2	27	0.75	1.8	22	37	13.5/160	EAR99	PE15A1042	\$597.07	\$561.25	\$531.39	\$507.51	75
	100 MHz - 2	61.5	1	2.5	19	33	15/170	EAR99	PE15A1066	\$1,365.76	\$1,283.81	\$1,215.53	\$1,160.90	76
	500 MHz - 3	14.5	0.4	2	20	35	12/90	EAR99	PE15A1017	\$326.36	\$306.78	\$290.46	\$277.41	77
		29	1	2.6			12/190	EAR99	PE15A1018	\$413.01	\$388.23	\$367.58	\$351.06	78
	500 MHz - 4	24	2.5	0.7	17	34	15/65	EAR99	PE15A1068	\$770.35	\$724.13	\$685.61	\$654.80	79
18							35	15/65	EAR99	PE15A1067	\$770.35	\$724.13	\$685.61	\$654.80
Input Protected Low Noise	900 MHz - 1.2	30	1	1.2	10	25	12/100	EAR99	PE15A63004	\$573.10	\$538.71	\$510.06	\$487.14	81
		40					12/100	EAR99	PE15A63005	\$573.10	\$538.71	\$510.06	\$487.14	82
1 - 1.4	30	12/110	EAR99	PE15A63006	\$573.10	\$538.71	\$510.06	\$487.14	83					
Low Noise, High Rel	1 - 2	35	1.5	11	25	12/120	EAR99	PE15A1000	\$1,226.57	\$1,152.98	\$1,091.65	\$1,042.58	84	
High Gain	1 - 4	40	1.2	0.8	20	41	15/120	EAR99	PE15A1070	\$770.35	\$724.13	\$685.61	\$654.80	86
Low Noise		16					1.75	17	6/60	EAR99	PE15A1031	\$3,948.14	\$3,711.25	\$3,513.84
Low Noise, High Rel	1.2 - 1.4	25	0.75	1.5	10	15	13.2/150	EAR99	PE15A1023	\$614.05	\$577.21	\$546.50	\$521.94	88
		35					13.2/180	EAR99	PE15A1024	\$688.46	\$647.15	\$612.73	\$585.19	89
High Gain, High Rel	1.2 - 1.6	40	0.5	0.8	12	12	13.2/200	EAR99	PE15A1005	\$1,146.33	\$1,077.55	\$1,020.23	\$974.38	90
Low Noise		15/100					EAR99	PE15A1028	\$625.20	\$587.69	\$556.43	\$531.42	91	
Integrated Band Pass Filter	1.215 - 1.4	25	0.75	0.5	16	16	12/130	EAR99	PE15A1039	\$840.56	\$790.13	\$748.10	\$714.48	92
		35					12/130	EAR99	PE15A1040	\$868.33	\$816.23	\$772.81	\$738.08	93
Low Phase Noise, High Rel	1.5 - 5	14	4.5	17	27	9/170	EAR99	PE15A1034	\$5,923.34	\$5,567.94	\$5,271.77	\$5,034.84	94	
Input Protected Low Noise	2 - 2.6	30	0.35	0.85	12	12	15/110	EAR99	PE15A63007	\$844.02	\$793.38	\$751.18	\$717.42	95
Low Noise, High Rel	2 - 4	38	1	2	13	25	13/200	EAR99	PE15A1001	\$1,485.15	\$1,396.04	\$1,321.78	\$1,262.38	96
		40					0.9	14	15/90	EAR99	PE15A1010	\$1,000.44	\$940.41	\$890.39
High Gain	2 - 6	40	0.9	14	25	15/90	EAR99	PE15A1010	\$1,000.44	\$940.41	\$890.39	\$850.37	97	
Low Phase Noise, High Rel	2 - 18	12.5	6.5	13	13	5/80	EAR99	PE15A1030	\$9,855.78	\$9,264.43	\$8,771.64	\$8,377.41	98	
Input Protected Low Noise	2.6 - 3.1	30	1	1.2	10	10	12/120	EAR99	PE15A63008	\$844.02	\$793.38	\$751.18	\$717.42	99
Low Phase Noise, High Rel	3 - 8	11	6	14	25	7/250	EAR99	PE15A1035	\$5,923.34	\$5,567.94	\$5,271.77	\$5,034.84	1	
High Gain, High Rel	3.1 - 3.5	40	0.3	1.1	15	15	17/150	EAR99	PE15A1006	\$1,709.58	\$1,607.01	\$1,521.53	\$1,453.14	2
Low Noise, High Rel	4 - 8	38	1	2	13	25	13/250	EAR99	PE15A1002	\$1,604.86	\$1,508.57	\$1,428.33	\$1,364.13	3
		22.5					1.75	14.8	25	12/105	EAR99	PE15A9002	\$6,681.83	\$6,280.92
Low Phase Noise, High Rel	6 - 12	11	1	4.5	20	34	7/200	EAR99	PE15A1032	\$5,923.34	\$5,567.94	\$5,271.77	\$5,034.84	5
Low Noise		25	0.7	2.1	11	25	5.5/65	EAR99	PE15A1072	\$1,503.47	\$1,413.26	\$1,338.09	\$1,277.95	6
	26	2.5	1.9	5.5/65			EAR99	PE15A1071	\$1,574.16	\$1,479.71	\$1,401.00	\$1,338.04	7	
Low Phase Noise, High Rel	7 - 11	9	6	22	33	7/300	EAR99	PE15A1033	\$6,910.58	\$6,495.95	\$6,150.42	\$5,873.99	8	
Low Noise, High Rel	8 - 12	18	1	2.2	13	13	13/150	EAR99	PE15A1027	\$1,563.00	\$1,469.22	\$1,391.07	\$1,328.55	9
		28					13/200	EAR99	PE15A1026	\$1,735.98	\$1,631.82	\$1,545.02	\$1,475.58	10
		38					13/250	EAR99	PE15A1003M	\$2,003.59	\$1,883.37	\$1,783.20	\$1,703.05	11
		48					13/250	EAR99	PE15A1003	\$1,856.42	\$1,745.03	\$1,652.21	\$1,577.96	12
		48					13/300	EAR99	PE15A1025	\$2,152.78	\$2,023.61	\$1,915.97	\$1,829.86	13
Low Noise	12 - 18	38	3	13	20	13/300	EAR99	PE15A1004	\$2,112.43	\$1,985.68	\$1,880.06	\$1,795.57	14	
Low Noise	26.5 - 40	43	2	2	12	20	15/110	EAR99	PE15A3300	\$2,951.99	\$2,774.87	\$2,627.27	\$2,509.19	15

POWER AMPLIFIERS (<4W)



Amplifiers

Amplifier Type	Frequency Band (GHz.)	Gain (dB)	Gain Var. ±(dB)	NF (dB)	P1dB (dBm)	Psat (dBm)	DC Power (V/mA)	ECCN	Model No	1	2-4	5-9	10+	ROW
High Power, Class AB	1 MHz - 1	36	1.5		33	36	28/1,200	EAR99	PE15A5030	\$2,243.43	\$2,108.82	\$1,996.65	\$1,906.92	16
High Power, Class AB, Power with Fan							28/1,700	EAR99	PE15A5030F	\$2,913.17	\$2,738.38	\$2,592.72	\$2,476.19	17
Power	20 MHz - 1	40	0.5	6	36		24/	EAR99	PE15A4072	\$1,993.69	\$1,874.07	\$1,774.38	\$1,694.64	18
	20 MHz - 3	27	0.75				30	12/220	EAR99	PE15A4017	\$750.33	\$705.31	\$667.79	\$637.78
High Power	30 MHz - 2.5	43	2	5	30	40	12/2,800	EAR99	PE15A5011	\$7,438.30	\$6,992.00	\$6,620.09	\$6,322.56	20
Power	30 MHz - 3	38	1				28	12/450	EAR99	PE15A4009	\$865.78	\$813.83	\$770.54	\$735.91
	50 MHz - 1	26	0.75	29	15/530	EAR99	PE15A4019	\$1,154.23	\$1,084.98	\$1,027.26	\$981.10	22		
	60 MHz - 6	36	1.5					\$2,503.20	\$2,353.01	\$2,227.85	\$2,127.72	23		
High Power	100 MHz - 6	60	1.25	10		40	28/2,200	EAR99	PE15A5027	\$18,517.08	\$17,406.06	\$16,480.20	\$15,739.52	24
High Rel	100 MHz - 18	25	3	8	29		15/1,000	EAR99	PE15A4052	\$9,853.86	\$9,262.63	\$8,769.94	\$8,375.78	25
	500 MHz - 4	30		6	30	12/1,500	EAR99	PE15A4053	\$3,744.25	\$3,519.60	\$3,332.38	\$3,182.61	26	
High Power, Class AB	700 MHz - 2.7	45	1.5				30/8,733	EAR99	PE15A5033	\$14,518.19	\$13,647.10	\$12,921.19	\$12,340.46	27
High Power, Class AB, Power with Fan							30/8,733	EAR99	PE15A5033F	\$15,319.53	\$14,400.36	\$13,634.38	\$13,021.60	28
High Power	700 MHz - 6	43	2	30.8	31.8	40	32/2,000	EAR99	PE15A5017	\$9,178.16	\$8,627.47	\$8,168.56	\$7,801.44	29
Power, Class AB, Power with Fan	800 MHz - 4.2	31					13/1,000	EAR99	PE15A5034F	\$2,394.93	\$2,251.23	\$2,131.49	\$2,035.69	30
Power, Class AB			13/800	EAR99	PE15A5034	\$1,799.82	\$1,691.83	\$1,601.84	\$1,529.85	31				
Power	820 MHz - 960 MHz	15	0.5	2	30		12/500	EAR99	PE15A4026	\$504.18	\$473.93	\$448.72	\$428.55	32
	High Power	1 - 2	35	0.75	1.5	33		12/800	EAR99	PE15A4025	\$1,152.31	\$1,083.17	\$1,025.56	\$979.46
High Power		1 - 3	50	1.25	10	36		12/800	EAR99	PE15A4016	\$1,485.82	\$1,396.67	\$1,322.38	\$1,262.95
	Power	1.2 - 1.4	46	0.5	2		47	45/4,000	EAR99	PE15A5026	\$18,367.34	\$17,265.30	\$16,346.93	\$15,612.24
2 - 4.4		32	10		36	37	8/150	EAR99	PE15A4010	\$1,655.81	\$1,556.46	\$1,473.67	\$1,407.44	36
High Power	2 - 6	50	1.25	7		44	28/3,000	EAR99	PE15A5024	\$2,130.62	\$2,002.78	\$1,896.25	\$1,811.03	37
							28/6,000	EAR99	PE15A5025	\$15,110.08	\$14,203.48	\$13,447.97	\$12,843.57	38
High Rel	2 - 8	38	2.5	5.5	30		12/1,200	EAR99	PE15A4054	\$5,574.70	\$5,240.22	\$4,961.48	\$4,738.50	40
	2 - 12	35	4		33		15/4,500	EAR99	PE15A4055	\$12,935.70	\$12,159.56	\$11,512.77	\$10,995.35	41
Power	2 - 18	30	4		33		12/2,500	EAR99	PE15A4056	\$11,722.50	\$11,019.15	\$10,433.03	\$9,964.13	42
							12/5,000	EAR99	PE15A4057	\$13,537.08	\$12,724.86	\$12,048.00	\$11,506.52	43
High Rel	2 - 20		5.5		31		12/4,500	EAR99	PE15A4058	\$13,073.64	\$12,289.22	\$11,635.54	\$11,112.59	44
High Power	2.2 - 2.7	50	1.5	4		49	28/11,000	EAR99	PE15A5022	\$13,791.18	\$12,963.71	\$12,274.15	\$11,722.50	45
	3.1 - 3.5	45					40	15/5,000	EAR99	PE15A5002	\$3,025.04	\$2,843.54	\$2,692.29	\$2,571.28
Power	3.5 - 7	26	2	11	36	37	8/1,600	EAR99	PE15A4012	\$1,976.14	\$1,857.57	\$1,758.76	\$1,679.72	47
	High Rel	6 - 12	47	2.5	6.5	30.5	12/1,500	EAR99	PE15A4060	\$4,869.61	\$4,577.43	\$4,333.95	\$4,139.17	48
12/800							EAR99	PE15A4061	\$5,387.14	\$5,063.91	\$4,794.55	\$4,579.07	49	
High Rel	6 - 18	35	3.5	10	30		12/2,500	EAR99	PE15A5048	\$10,821.91	\$10,172.60	\$9,631.50	\$9,198.62	50
							12/1,800	EAR99	PE15A4062	\$9,767.01	\$9,180.99	\$8,692.64	\$8,301.96	51
High Power	6.4 - 7.1	58	2			43	33/2,300	EAR99	PE15A5016	\$9,226.05	\$8,672.49	\$8,211.18	\$7,842.14	52
	7.2 - 7.5						41.76	33/2,300	EAR99	PE15A5019	\$9,194.12	\$8,642.47	\$8,182.77	\$7,815.00
Power	7.5 - 11	25				33	7/1,000	EAR99	PE15A4013	\$1,912.39	\$1,797.65	\$1,702.03	\$1,625.53	54
High Power	8 - 11	28	3			31	6/200	EAR99	PE15A4014	\$1,976.32	\$1,857.74	\$1,758.92	\$1,679.87	55
High Power							32	36	6/200	EAR99	PE15A4015	\$1,975.37	\$1,856.85	\$1,758.08
High Rel	8 - 12	30	2			33	12/2,500	EAR99	PE15A5051	\$6,698.57	\$6,296.66	\$5,961.73	\$5,693.78	57
Power							41	1	3.5	30	31	12/1,200	EAR99	PE15A4008
High Rel	8 - 12.4	30	1.75	6	27		12/800	EAR99	PE15A4063	\$4,091.60	\$3,846.10	\$3,641.52	\$3,477.86	59
Power	8.5 - 11		0.5	3	30		15/900	EAR99	PE15A4006	\$2,682.42	\$2,521.47	\$2,387.35	\$2,280.06	60
		0.75	5	36		12/4,500	EAR99	PE15A4007	\$3,679.71	\$3,458.93	\$3,274.94	\$3,127.75	61	
High Rel	14.4 - 15.4	43	0.5		34.8		15/1,500	EAR99	PE15A5021	\$7,815.00	\$7,346.10	\$6,955.35	\$6,642.75	62
							12/1,150	EAR99	PE15A4064	\$9,510.00	\$8,939.40	\$8,463.90	\$8,083.50	63
Power	18 - 26.5	33	1.25	5	31		12/1,800	EAR99	PE15A4021	\$3,407.16	\$3,202.73	\$3,032.37	\$2,896.09	64
High Rel							12/3,500	EAR99	PE15A5054	\$11,590.03	\$10,894.63	\$10,315.13	\$9,851.53	65

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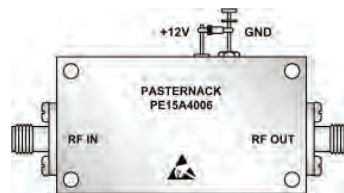


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POWER AMPLIFIERS (<4W)



Amplifiers

Amplifier Type	Frequency Band (GHz.)	Gain (dB)	Gain Var. ±(dB)	NF (dB)	P1dB (dBm)	Psat (dBm)	DC Power (V/mA)	ECCN	Model No	1	2-4	5-9	10+	ROW
High Rel	18 - 40	35	4	23	22	22	12/1,000	EAR99	PE15A4065	\$10,690.92	\$10,049.46	\$9,514.92	\$9,087.28	66
Power	26.5 - 40		3	4.5	20	22	12/270	EAR99	PE15A4050	\$2,951.99	\$2,774.87	\$2,627.27	\$2,509.19	67
High Rel	30 - 40	20	4	10		27	12/3,000	EAR99	PE15A4067	\$12,632.25	\$11,874.32	\$11,242.70	\$10,737.41	68
			2			20	12/350	EAR99	PE15A4069	\$8,068.55	\$7,584.44	\$7,181.01	\$6,858.27	69

HIGH POWER AMPLIFIERS (>4W)



Amplifier Type	Frequency Band (GHz.)	Gain (dB)	Gain Var. ±(dB)	NF (dB)	P1dB (dBm)	Psat (dBm)	DC Power (V/mA)	ECCN	Model No	1	2-4	5-9	10+	ROW
High Power, Class AB	0.15 MHz - 230 MHz	43	1.5	41.8	44	28/5,000	28/5,500	EAR99	PE15A5028	\$3,672.22	\$3,451.89	\$3,268.28	\$3,121.39	70
						28/2,000	EAR99	PE15A5028F	\$4,562.63	\$4,288.87	\$4,060.74	\$3,878.24	71	
						EAR99	PE15A5029	\$2,021.93	\$1,900.61	\$1,799.52	\$1,718.64	72		
High Power, Class AB, Power with Fan	0.5 MHz - 500 MHz	44			39	28/2,000	EAR99	PE15A5029F	\$2,539.30	\$2,386.94	\$2,259.98	\$2,158.41	73	
High Power, Class AB	20 MHz - 1	46	40	44	28/5,200	EAR99	PE15A5031	\$3,761.62	\$3,535.92	\$3,347.84	\$3,197.38	74		
High Power, Class AB, Power with Fan					28/5,800	EAR99	PE15A5031F	\$4,478.41	\$4,209.71	\$3,985.78	\$3,806.65	75		
High Power	500 MHz - 2.8	37		37	12/1,800	EAR99	PE15A5013	\$4,336.56	\$4,076.37	\$3,859.54	\$3,686.08	76		
High Power, Class AB	500 MHz - 3	48	2	44	36/8,333	EAR99	PE15A5032	\$14,116.42	\$13,269.43	\$12,563.61	\$11,998.96	77		
High Power, Class AB, Power with Fan					36/8,333	EAR99	PE15A5032F	\$14,626.67	\$13,749.07	\$13,017.74	\$12,432.67	78		
High Power	700 MHz - 2.2	30	1	10	38	30/300	EAR99	PE15A5004	\$1,829.66	\$1,719.88	\$1,628.40	\$1,555.21	79	
						12/1,800	EAR99	PE15A5040	\$1,284.79	\$1,207.70	\$1,143.46	\$1,092.07	80	
						12/1,800	EAR99	PE15A5041	\$1,347.31	\$1,266.47	\$1,199.11	\$1,145.21	81	
High Power, Class AB	800 MHz - 960 MHz	37	0.5	47	12/15,000	EAR99	PE15A5010	\$6,129.41	\$5,761.65	\$5,455.17	\$5,210.00	82		
					13/5,000	EAR99	PE15A5035	\$4,585.85	\$4,310.70	\$4,081.41	\$3,897.97	83		
High Power, Class AB	800 MHz - 2	41	1.5	40	40.8	13/5,500	EAR99	PE15A5035F	\$4,619.53	\$4,342.36	\$4,111.38	\$3,926.60	84	
High Power, Class A	800 MHz - 2.5	40	2	41	12/5,500	EAR99	PE15A5020	\$4,722.11	\$4,438.78	\$4,202.68	\$4,013.79	85		
High Power	860 MHz - 960 MHz	42	1	3.5	42.5	12/2,800	EAR99	PE15A5042	\$2,847.79	\$2,676.92	\$2,534.53	\$2,420.62	86	
					44	12/6,500	EAR99	PE15A5039	\$4,063.80	\$3,819.97	\$3,616.78	\$3,454.23	87	
High Power, Class AB, Power with Fan	1 - 2.5	40	1.5	39	40	13/5,500	EAR99	PE15A5036F	\$5,207.92	\$4,895.44	\$4,635.05	\$4,426.73	88	
High Power, Class AB				41	13/5,000	EAR99	PE15A5036	\$4,122.16	\$3,874.83	\$3,668.72	\$3,503.84	89		
High Power, Class AB, Power with Fan	1 - 3	44	37.8	39	13/3,000	EAR99	PE15A5037	\$5,157.90	\$4,848.43	\$4,590.53	\$4,384.22	90		
					13/4,000	EAR99	PE15A5037F	\$5,642.43	\$5,303.88	\$5,021.76	\$4,796.07	91		
High Power	1.2 - 1.4	40	0.3	40	12/4,000	EAR99	PE15A5001	\$3,980.30	\$3,741.48	\$3,542.47	\$3,383.26	92		
	1.5 - 3.5	20	1.25	10	38.5	39	EAR99	PE15A5005	\$2,289.96	\$2,152.56	\$2,038.06	\$1,946.47	93	

See Our Website For Current Pricing & Real-Time Stock Availability!

HIGH POWER AMPLIFIERS (>4W)



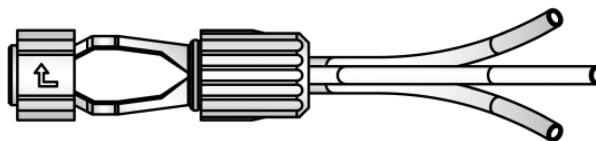
Amplifier Type	Frequency Band (GHz.)	Gain (dB)	Gain Var. \pm (dB)	NF (dB)	P1dB (dBm)	Psat (dBm)	DC Power (V/mA)	ECCN	Model No	1	2-4	5-9	10+	ROW	
High Power	1.7 - 2	50	0.5		43		12/6,000	EAR99	PE15A5014	\$4,290.60	\$4,033.16	\$3,818.63	\$3,647.01	94	
	1.7 - 2.5	11			37		12/800	EAR99	PE15A5015	\$2,436.45	\$2,290.26	\$2,168.44	\$2,070.98	95	
Power, Class AB	2 - 4	39	1.5		37.8	39	13/3,000	EAR99	PE15A5038	\$5,543.44	\$5,210.83	\$4,933.66	\$4,711.92	96	
High Rel							13/5,500	EAR99	PE15A5038F	\$6,038.39	\$5,676.09	\$5,374.17	\$5,132.63	97	
High Power	2 - 6	40	3.5		37		12/7,000	EAR99	PE15A5047	\$11,298.27	\$10,620.37	\$10,055.46	\$9,603.53	98	
							12/5,500	EAR99	PE15A5018	\$5,001.60	\$4,701.50	\$4,451.42	\$4,251.36	99	
	2.3 - 2.7	55	0.5	8	38	38.5	13/400	EAR99	PE15A5006	\$1,607.67	\$1,511.21	\$1,430.83	\$1,366.52	1	
										2.5 - 4	19	1	9	39	39
	2.6 - 4.2	19	1	9	39	39	16/380	EAR99	PE15A5007	\$1,607.67	\$1,511.21	\$1,430.83	\$1,366.52	2	
										3.1 - 3.5	8	0.5	37	12/750	EAR99
	High Power	3.1 - 3.5	47	1.5	3.5	43		12/9,000	EAR99	PE15A5003	\$3,980.30	\$3,741.48	\$3,542.47	\$3,383.26	4
											3.5 - 7	19	2	12	16/375
5.5 - 9.5		24	2	8.5	37	38	8/2,600	EAR99	PE15A5009	\$2,153.44	\$2,024.23	\$1,916.56	\$1,830.42	6	
										6 - 18	40	5	40	12/1,300	EAR99
High Rel	6 - 18	41					12/7,500	EAR99	PE15A5049	\$17,182.03	\$16,151.11	\$15,292.01	\$14,604.73	8	
										30	2.5	40	12/14,000	EAR99	PE15A5053
	8 - 12	40	2	37	12/6,000	EAR99	PE15A5052	\$12,634.99	\$11,876.89	\$11,245.14	\$10,739.74	10			
High Power	8.5 - 10.5	36	1.5		38.5		12/4,000	EAR99	PE15A5044	\$4,445.88	\$4,179.13	\$3,956.83	\$3,779.00	11	
	8.5 - 11	30	0.75				12/7,500	EAR99	PE15A5043	\$4,098.53	\$3,852.62	\$3,647.69	\$3,483.75	12	
	17.5 - 21.5	40	1.5	5	37		12/3,500	EAR99	PE15A4020	\$4,394.91	\$4,131.22	\$3,911.47	\$3,735.67	13	

RACK MOUNT VARIABLE GAIN AMPLIFIERS



Amplifier Type	Frequency Band (GHz.)	Gain (dB)	Gain Var. \pm (dB)	NF (dB)	Atten. Range (dB)	Step Size (dB)	AC Power (VAC)	ECCN	Model No	1	2-4	5-9	10+	ROW
Variable Gain, High Rel	100 MHz - 18	50	2	6.5	0-60	1	120	EAR99	PE15A7000	\$16,827.25	\$15,817.62	\$14,976.25	\$14,303.16	14

AMPLIFIER ACCESSORIES



Model No	Description	1	2-4	5-9	10+	ROW
PE15A5990	Heat Sink with Fan for RF Power Amplifier PE15A5024, PE15A5025 and PE15A5027	\$1,973.16	\$1,894.23	\$1,815.31	\$1,736.38	15

Amplifiers

See Our Website For Current Pricing & Real-Time Stock Availability!



Free Shipping Available via UPS Ground to USA & Canada

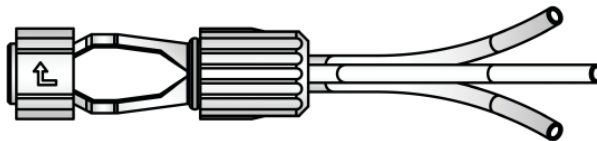


Technical Support (866) 727-8376



Same-Day Shipping, Even Custom Cable Assemblies

AMPLIFIER ACCESSORIES



Antennas

Model No	Description	1	2-4	5-9	10+	R O W
PE15C5011F	Heat Sink with 24V Fan and Power and Control Cable for RF Amplifier PE15A5011, PE15A5016, PE15A5017, PE15A5019	\$1,086.81	\$1,021.60	\$967.26	\$923.79	16
PE15C5013	Heat Sink for Most RF Power Amplifier PE15A5000 Series	\$434.18	\$408.13	\$386.42	\$369.05	17
PE15C5013F	Heat Sink with 12V Fan for Most RF Power Amplifier PE15A5000 Series	\$1,174.28	\$1,103.82	\$1,045.11	\$998.14	18
PE15C5022	Heat Sink for Rf Power Amplifier PE15A5022	\$583.52	\$548.51	\$519.33	\$495.99	19
PE15C5022F	Heat Sink with 24V Fan for RF Power Amplifier PE15A5022	\$937.80	\$881.53	\$834.64	\$797.13	20
PE15J5011	Power and Control Cable for RF Amplifier PE15A5011, PE15A5014, PE15A5016, PE15A5017, PE15A5018, PE15A5019, PE15A5020 and PE15A5022	\$223.28	\$214.35	\$205.42	\$196.49	21
PE15J5015	Power and Control Cable for RF Amplifier PE15A5015, PE15A5023	\$125.04	\$120.04	\$115.04	\$110.04	22
PE15K5000	Power and Control Cable for RF Amplifier PE15B5000 and PE15B5001	\$139.63	\$134.04	\$128.46	\$122.87	23
PE15K5002	Power and Control Cable for RF Amplifier PE15B5002	\$117.75	\$110.69	\$104.80	\$100.09	24

ANTENNAS

For the complete selection of our Antenna components and assemblies, please visit the [Antenna](#) sections on our website at www.pasternack.com



- **Directional Antennas:** Fixed, Panel, Yagi, Dome, and Active-Passive GPS
- **Omni Directional Antennas:** Fixed, Mobile, Rubber Duck and Portable
- **Antenna Accessories:** NMO Adapters and Magnetic NMO Mount

In-stock and available to ship today!

See Our Website For Current Pricing & Real-Time Stock Availability!

PASTERNAK ENTERPRISES -- REACH PRODUCT COMPLIANCE PROGRAM

What is REACH Compliance?

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 is commonly referred to as REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals). The REACH regulation became effective on June 1, 2007 to streamline and improve the former legislative framework for chemicals available in the European Union (EU) and European Economic Area (EEA) countries.

The objective of REACH is to improve protection of human health and the protection of the environment from the exposure to chemicals. REACH compliance is mandatory for products manufactured in, or imported into the European Union (EU).

As outlined by the REACH regulation, any organization manufacturing, importing, using or placing a substance, mixture, article or product on the EU market will be responsible for ensuring that the component substances are in compliance with REACH regulations.

Determining REACH Compliance of Pasternack Products:

Pasternack Enterprises does not currently either manufacture or import any chemical substances into the EU on their own or in articles (products) in quantities of 1 ton or more per year. In addition, products imported by Pasternack Enterprises' customers do not contain chemical substances intended to be released during the normal and reasonably foreseeable conditions of the product's use as defined by the REACH regulation and existing guidance.

However, under REACH, there is an obligation to ensure that articles do not contain <0.1% by weight of Substances of Very High Concern (SVHCs). SVHCs are substances that may cause cancer or other serious health or environmental effects and thus face restriction or outright bans, and are listed in a regularly-updated 'Candidate list'. The current Candidate list can be downloaded from the European Chemicals Agency (ECHA) website:

http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp

For each part that has been found to comply with the REACH SVHC reporting requirements, we show an indication of compliance adjacent to the part number using this symbol:



All products displaying this symbol on our website are assured to contain no SVHCs as defined by the Candidate List displayed on the Pasternack REACH certificate. When you locate the product you need on our website, please click on the "Product ID or Part Number". You will see the "REACH symbol" for the specific part. Click on this symbol to view the Certificate of REACH Compliance (printable if needed) for the specific product as well as the applicable ECHA SVHC Candidate list Date.

Pasternack Enterprises - REACH Product Compliance Program:

At Pasternack Enterprises, we recognize our responsibility as a worldwide supplier of RF, Microwave and Fiber Optic Products subject to the REACH regulations. We have completed a comprehensive effort internally and with our supply chain to determine the REACH compliance of our products. You will find our Reach Symbol adjacent to all products on our website that have been determined by Pasternack and our supply chain to contain less than 0.1% by weight of the REACH substances. You will also see the applicable ECHA SVHC Candidate List Date. "Please refer to our website at www.Pasternack.com.

The Pasternack Enterprises REACH Product Compliance Program is implemented in accordance with Regulation No. 1907/2006 of the European Parliament and the Council of 18 December 2006. Pasternack has implemented a REACH compliance program to address this legislation. Pasternack Enterprises does not currently either manufacture or import any chemical substances into the EU on their own or in articles (products) in quantities of 1 ton or more per year. In addition, products imported by Pasternack Enterprises' customers do not contain chemical substances intended to be released during the normal and reasonably foreseeable conditions of the product's use as defined by the REACH regulation and existing guidance. Thus, Pasternack Enterprises does not currently have a direct REACH obligation to pre-register substances. Pasternack's REACH Product Compliance is determined by a certification from our supply chain. A Pasternack product is deemed to be REACH compliant when it does not contain Substances of Very High Concern (SVHCs) beyond the specified concentration limits of less than 0.1% by weight as outlined in REACH 1907/2006/EU regulation.

Need More Information?

If you have questions regarding REACH Product Certification on Pasternack's products, please contact the Pasternack REACH Compliance Team via email at REACH@Pasternack.com or by calling Toll-Free within North America at 1-866-PASTERNAK (1-866-727-8376). International customers, please call +1-949-261-1920.



Free Shipping Available
via UPS Ground
to USA & Canada



Technical
Support
(866) 727-8376



Same-Day Shipping,
Even Custom
Cable Assemblies

PASTERNAK ENTERPRISES ROHS COMPLIANCE PROGRAM

Lead-free solder is now available for all cable assemblies upon request or online at www.Pasternack.com.

Our Commitment

At Pasternack, we recognize our responsibility as an international supplier of RF, Microwave and Millimeter wave electronics products to maintain a comprehensive RoHS compliance program. We are fully committed to offering RoHS compliance on the majority of our products and posting accurate RoHS compliance status for all of our products. We have posted this data on our website so that it can be easily found for each part number within our on-line catalogue.

What is RoHS Compliance?

The European Union set forth the RoHS (Restriction of Hazardous Substances) Directive to establish environmental guidelines and legislation to reduce the presence of six (6) materials deemed hazardous to the environment. To comply, products entering the EU must not have a homogeneous presence of these materials above the following levels by weight percentage

- Lead (Pb) < 0.1%
- Mercury (Hg) < 0.1%
- Cadmium (Cd) < 0.01%
- Hexavalent Chromium (CrVI) < 0.1%
- Polybrominated Biphenyls (PBB) < 0.1%
- Polybrominated Diphenyl Esters (PBDE) < 0.1%

Determining Pasternack RoHS Compliance

All products displaying this symbol on our website have been certified as RoHS Compliant. Click on the symbol to view the Certificate of RoHS Compliance for that product.



Lead Free Cable Assemblies

Many of Pasternack's cable assemblies are built with leaded solder. If so, the part will not be RoHS compliant and a certificate will not be found on the product page for that assembly. However, many of these assemblies can be brought into RoHS compliance through the use of Lead-Free solder. If the assembly you desire is not RoHS compliant, there may be a RoHS compliant version with a similar part number. If so, you will see an "LF" contained in the basic part number (example PE3067LF-24 is the lead free version of PE3067-24). Please note: the "LF" designation is used only when the base part number is not RoHS compliant. Many assemblies do not include "LF" and are compliant because they are only offered in a RoHS compliant configuration.

For More Information

Please direct any questions to Pasternack Enterprises Technical Support via email at TechSupport@Pasternack.com or by calling Toll-Free within North America at 1-866-PASTERNAK (866-727-8376). International customers, please use +1-949-261-1920.

MAILING LIST CHANGES

If you receive more than one RF Product Guide with the same name and address, please notify Pasternack and pass the RF Product Guide along to a friend. Also, if you do not require multiple copies to the same company address, contact a sales representative to verify and modify your mailing information. A forms-based communications method to add, delete or modify mailing information is available at www.pasternack.com. By clicking "Contact Us", and then clicking "Remove Name from Mailing List", you may complete the form to request a change to your mailing preferences. In addition, by clicking "RF Product Guide", and then clicking "Request a Printed RF Product Guide", you may add your contact information to our mailing list. Please note service opt-in and opt-out options located on the forms. Alternatively, you may mail, email, telephone or fax Pasternack your request.

PLACING YOUR ORDER

► **By Telephone: 866-PASTERNAK (866-727-8376)
US & Canada, or 949-261-1920**

Our friendly sales representatives are ready to serve you from 5:00am to 5:30pm Pacific Standard Time (PST), Monday through Friday. For the most efficient service, please have ready a list of quantities and part numbers and, if paying by credit card, your MasterCard, VISA, American Express or Discover card. Note: Calls may be recorded or monitored for quality and training purposes.

► **By Fax: 949-261-7451**

Our fax lines can be accessed 7 days a week, 24 hours a day. Orders received after 4:00pm PST will be promptly processed and shipped the next business day. Please include your daytime phone number and/or email address in case we have any questions about your order.

► **By Internet: www.Pasternack.com
or Email: sales@pasternack.com**

Order online 7 days a week, 24 hours a day using our online ordering system. Just search for the items you want and add them to your shopping cart. Internet orders entered after 4:00 pm PST will be promptly processed and shipped the next business day.

► **By Mail: Simply Mail Your Order To:
Pasternack Enterprises, Inc.
17802 Fitch
PO Box 16759
Irvine, CA 92623-6759 USA**

International customers, please see "International Orders" below for additional information.

Terms and Conditions of Sale:

The following from Pasternack's Binding Terms and Conditions of Sale are provided for your convenience. A complete documentation of the Binding Terms and Conditions of Sale may be found in the back of the RF Product Guide, or on Pasternack's website at <http://www.pasternack.com/t-terms-of-sale.aspx>. Any questions or clarifications may be answered by contacting Customer Service at (+1) 949-261-1920 or by any of the methods listed above.

No Minimum Order Requirement

Ground Freight is Free:

On UPS Ground orders, there is no charge for shipping for USA & Canada orders of \$100.00 or greater. Otherwise, shipping or freight charges and insurance will be paid by the customer. All sales are made FOB Point (as defined by the INCOTERMS 2000) in Irvine, CA USA. Shipping or freight charges from Pasternack's Irvine, CA factory are prepaid and added to the invoice or billed collect.

Same-Day Shipment:

Same-day shipment will apply to orders received Monday through Friday, prior to 4:00pm PST.

- All UPS air and surface options
- All FedEx air options (with an approved account number)
- Most other shipping options, including DHL (with an approved account number) and USPS

Counter-to-Counter Shipping:

For your urgent order requiring our fastest shipping method, we will place your order on the next available flight from Santa Ana-Orange County John Wayne International Airport (Airport code: SNA) to the destination you specify. Please call for details.

Payment Terms:

Pasternack offers a number of convenient payment methods:

For United States customers, we offer check, money order, MasterCard, VISA, American Express, Discover, and C.O.D. as well as open account credit to qualified institutions and businesses. Payment must be made in US Dollars.

For Canadian customers, we offer all of the above payment options except C.O.D.
For International customers, see **International Orders**.

Open Account Credit:

Net 30 Days terms are available to businesses, schools and agencies subject to credit approval. Approval can begin by submitting a completed Credit Application, which can be found online at:

www.Pasternack.com/t-CreditApplication.aspx

EFT/Wire Transfers:

Please contact us for details. We will inform you of the total amount which will include shipping charges and any applicable wire transfer fees. Orders will not be accepted until funds have been received in full.

WELLS FARGO BANK
420 Montgomery St.
San Francisco, CA 94104 USA
Account Number: 4270 0000 0000 0000 1
Routing Number: 121000248
SWIFT Number: WFBUS6S

International Orders:

In addition to the United States and its territories, Pasternack accepts international orders. All orders of international origin are exported from the US in accordance with the Export Administration Regulations. Diversion contrary to US Law is prohibited. Please see Pasternack's Binding Terms and Conditions of Sale for full details.

Pasternack has international distributors for the following countries:

Africa: Namibia, South Africa

Asia-Pacific: Australia, China PRC, India, Indonesia, Japan, Malaysia, New Zealand, Singapore, South Korea, Thailand

Europe: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Ireland, Italy, Kazakhstan, Luxembourg, Netherlands, Norway, Poland, Portugal, Russia, Slovakia, Spain, Sweden, Switzerland, Turkey, United Kingdom

Middle East: Israel

South America: Brazil

To access their complete contact information, please see our International Distributors section in this RF Product Guide. (inside back cover)

International Shipping Charges:

Shipping or freight charges and insurance will be paid by the customer. All sales are made FOB Point (as defined by the INCOTERMS 2000) in Irvine, CA USA. We ship orders by UPS, FedEx (with an approved account number), or DHL (with approved account number) with delivery in 2 to 3 days to most locations worldwide.

International Taxes and Duties:

Customer is responsible for duties and taxes.



Free Shipping Available
via UPS Ground
to USA & Canada



Technical
Support
(866) 727-8376



Same-Day Shipping,
Even Custom
Cable Assemblies

BINDING TERMS AND CONDITIONS OF SALE

The following are the terms and conditions ("Terms and Conditions") for the sale of products ("Products") by Pasternack Enterprises, Inc. ("Pasternack") to Pasternack's customers ("Customers"). Please read this agreement carefully. Any different or additional terms set forth in customer's purchase order or similar communication are objected to and shall not be binding on the company unless a separate agreement has been signed by an authorized officer of the company. By placing an order for products from the company, or by accepting delivery of the products described on the applicable packing slip, bill of lading and/or invoice received with the products, you agree to be bound by and accept these terms and conditions of sale.

1. ACCEPTANCE AND CANCELLATION OF ORDERS

All orders are subject to acceptance by Pasternack in writing by a duly authorized agent of Pasternack; any written acknowledgement of receipt of an order shall not, in and of itself, constitute such acceptance. Orders accepted and processed by Pasternack may not be cancelled by Customer except as covered by the Limited Warranty. All sales are final. Cable Assemblies and Non-Standard Products are also Non-Cancelable/Non-Refundable ("NC/NR"). Non-Standard Parts are defined as Products which are special orders, custom orders, orders for non-standard products, products not customarily in stock or orders for value-added products. In the event of cancellation or other withdrawal of an order for any reason and without limiting any other remedy which Pasternack may have as a result of such cancellation or other withdrawal, reasonable cancellation or restocking charges, which shall include all expenses then incurred and commitments made by Pasternack, shall be paid by Customer to Pasternack. Customer requests to reschedule are subject to acceptance by Pasternack in its sole discretion. Orders may not be rescheduled after the order has been submitted by Pasternack to the shipment carrier.

2. PRICES

Orders are billed at the prices (in US dollars) in effect at the time of shipment. Prices will be as specified by Pasternack and will be applicable for the period specified in Pasternack's quote. If no period is specified, quoted prices will be applicable for thirty (30) days. The website contains the most current pricing and is the price reference for orders. Pricing included in the catalog is for reference only and final pricing is determined by the published website price. Prices shown in the RF Product Guide (Catalog) and on the website are subject to change without notice. Prices are exclusive of taxes, impositions and other charges, including: sales, use, excise, value added and similar taxes or charges imposed by any government authority, international shipping charges, forwarding agent's and broker's fees, bank fees, consular fees, document fees and import duties.

3. TERMS OF PAYMENT

All payments must be in US Dollars, or will be converted to US Dollars using the available exchange rate at the time of purchase.

MasterCard, VISA, Discover, and American Express credit cards, purchase cards and major bank debit cards are accepted. Payment via net thirty (30) days is available to businesses, schools and agencies or as otherwise specified by Pasternack subject to credit approval.

For International Orders

MasterCard, VISA, and American Express credit cards are accepted. Payment via open credit account with Net thirty (30) days may be established for companies having three U.S. references accepted to Pasternack. Prepaid Wire Transfer: You can wire the funds to our bank. We will contact you with the total amount, which will include shipping charges and a \$40 wire transfer fee. Orders will not be accepted until funds have been received in full and the Purchase Order (PO) has been received. Customer is responsible for sales, use, excise, value added and similar taxes or charges imposed by any government authority, international shipping charges, forwarding agent's and broker's fees, bank fees, consular fees, document fees and import duties.

4. SALES TAX

California residents are required to remit sales tax. Pasternack does not remit sales tax to states other than California. Any sales tax due that is not collected by Pasternack is the responsibility of the customer.

5. TOLERANCES

All coaxial cable assemblies displayed in the Pasternack catalog and website have a standard cable length tolerance of $\pm 1.5\%$ or 3/8 inches (0.375"), whichever is greater. Cable Assemblies in excess of this tolerance factor are eligible for repair and/or replacement under the terms of the Pasternack Limited Warranty.

6. DELIVERY AND TITLE

Shipping or freight charges and insurance will be paid by the customer. All sales are made FCA Shipping Point (as defined by the INCOTERMS 2000) in Irvine, CA USA. Shipping or freight charges from Pasternack's Irvine, CA facility are prepaid and added to the invoice, or billed collect. Subject to Pasternack's right of stoppage in transit, delivery of the Products to the carrier will constitute delivery to Customer and title and risk of loss will pass to Customer. Pasternack will make reasonable efforts to initiate shipment and schedule delivery as close as possible to Customer's requested delivery date(s). Customer acknowledges that delivery dates provided by Pasternack are estimates only and that Pasternack will not be liable for failure to deliver on such dates. Selection of the carrier and delivery route will be made by Pasternack unless specifically designated by Customer. Pasternack reserves the right to make deliveries in installments. Delay in delivery of one installment will not entitle Customer to cancel any other installment(s). Delivery of any installment of Products within thirty (30) days after the date requested will constitute a

timely delivery. Delivery of a quantity that varies from the quantity specified shall not relieve Customer of the obligation to accept delivery and pay for the Products delivered.

7. PASTERNAK'S LIMITED WARRANTY

All products are covered by a LIMITED WARRANTY for a period of one (1) year from the date of shipment when purchased from Pasternack Enterprises, Inc. Customer must notify Pasternack within one (1) year from date of shipment of any defective product. An approved Return Material Authorization (RMA) number must first be obtained from Pasternack prior to the return of any merchandise to Pasternack for inspection under warranty. Shipping charges for all materials returned under this Limited Warranty are to be prepaid by the Customer. This warranty is limited to the original purchaser. Pasternack's liability arising out of any sale of products to Customer is expressly limited to either (1) Credit for the purchase price paid by Customer for such products (without interest), or (2) Repair and/or replacement of such products, found to be defective after inspection by Pasternack, and such remedies shall be exclusive and in lieu of all others. THIS WARRANTY IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, WHETHER ORAL, WRITTEN, EXPRESSED, IMPLIED OR STATUTORY. ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT ARE HEREBY DISCLAIMED. Further, no warranty will apply if the Product has been subject to misuse, neglect, accident or modification, or has been soldered or altered in any way.

All returns must be shipped to: Pasternack Enterprises, Inc.
17802 Fitch
Irvine, CA 92614 USA

8. LIMITATION OF LIABILITIES

In no event shall Pasternack be liable for any special, incidental or consequential damages of any nature including, but not limited to, damages resulting from loss of profit or revenue, recall costs, claims for service interruptions or failure to supply downtime, testing, installations or removal costs, costs of substitute products, property damage, personal injury, death or legal expenses. Customer's recovery from Pasternack for any claim shall not exceed the purchase price paid by Customer for the goods, irrespective of the nature of the claim, whether in warrant, contract or otherwise. CUSTOMER SHALL INDEMNIFY, DEFEND AND HOLD PASTERNAK HARMLESS FROM ANY CLAIMS brought by any party regarding products supplied by Pasternack and incorporated into the customer's product.

9. STATEMENTS AND ADVICE

If statements or advice, technical or otherwise, are offered or given to Customer, such statements or advice will be deemed to be given as an accommodation to Customer and without charge and Pasternack shall have no responsibility or liability for the content or use of such statements or advice.

10. EXPORT CONTROL AND EMBARGOES

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PE15A5049	51	8	PE19XR1051	199	62	PE2087	180	7	PE2246-20	165	45	PE20DV1042	180	15	PE3087		79 56
PE15A5050	51	8	PE19XR1052	199	62	PE2088	181	45	PE2246-30	165	45	PE20DV1043	180	15	PE3088		Web
PE15A5051	49	57	PE19XR1053	199	62	PE2089	181	66	PE2247-10	165	45	PE20DV1044	180	15	PE3088		98
PE15A5052	51	10	PE19XR1054	199	62	PE2090	181	66	PE2247-20	165	45	PE20DV1045	180	15	PE3089		Web
PE15A5053	51	9	PE19XR1055	199	62	PE2091	181	78	PE2247-30	165	45	PE20DV1046	180	15	PE3090		Web
PE15A5054	49	65	PE19XR1056	199	62	PE2092	181	44	PE2248-10	165	45	PE20DV1047	180	15	PE3091		80 91
PE15A5055	49	65	PE19XR1057	199	62	PE2093	181	59	PE2248-20	165	45	PE20DV1048	180	15	PE3092		Web
PE15A5056	51	15	PE19XR1058	199	62	PE2094	181	65	PE2248-30	165	45	PE20DV1049	180	15	PE3093		Web
PE15A6002	46	33	PE19XR1059	199	62	PE2095	181	77	PE2249-10	165	45	PE20DV1050	180	15	PE3094		Web
PE15A6007	46	35	PE19XR1060	199	62	PE2096	181	77	PE2249-20	165	45	PE20DV1051	180	15	PE3095		Web
PE15A6008	46	35	PE19XR1061	199	62	PE2097	181	77	PE2249-30	165	45	PE20DV1052	180	15	PE3096		Web
PE15A6012	46	37	PE19XR1062	199	62	PE2098	181	77	PE2250-10	165	45	PE20DV1053	180	15	PE3097		Web
PE15A6015	46	34	PE19XR1063	199	62	PE2099	181	77	PE2250-20	165	45	PE20DV1054	180	15	PE3098		Web
PE15A6016	46	34	PE19XR1064	199	62	PE2100	181	77	PE2250-30	165	45	PE20DV1055	180	15	PE3099		Web
PE15A60300	47	56	PE19XR1065	199	62	PE2101	181	77	PE2251-10	165	45	PE20DV1056	180	15	PE3100		Web
PE15A60301	47	59	PE19XR1066	199	62	PE2102	181	77	PE2251-20	165	45	PE20DV1057	180	15	PE3102		Web
PE15A60302	47	69	PE19XR1067	199	62	PE2103	181	77	PE2251-30	165	45	PE20DV1058	180	15	PE3102		Web
PE15A60303	47	70	PE19XR1068	199	62	PE2104	181	77	PE2252-10	165	45	PE20DV1059	180	15	PE3103		Web
PE15A60304	47	70	PE19XR1069	199	62	PE2105	181	77	PE2252-20	165	45	PE20DV1060	180	15	PE3104		Web
PE15A60305	48	82	PE19XR1070	199	62	PE2106	181	77	PE2252-30	165	45	PE20DV1061	180	15	PE3104		Web
PE15A60306	48	83	PE19XR1071	199	62	PE2107	181	77	PE2253-10	165	45	PE20DV1062	180	15	PE3108		Web
PE15A60307	48	95	PE19XR1072	199	62	PE2108	181	77	PE2253-20	165	45	PE20DV1063	180	15	PE3109		97 60
PE15A60308	48	99	PE19XR1073	199	62	PE2109	181	77	PE2253-30	165	45	PE20DV1064	180	15	PE3112		

50-OHM CONVERSION TABLE

(dBm - volts- watts)

dBm	V	Po
+53	100.0	200W
+50	70.7	100W
+49	64.0	80W
+48	58.0	64W
+47	50.0	50W
+46	44.5	40W
+45	40.0	32W
+44	32.5	25W
+43	32.0	20W
+42	28.0	16W
+41	26.2	12.5W
+40	22.5	10W
+39	20.0	8W
+38	18.0	6.4W
+37	16.0	5W
+36	14.1	4W
+35	12.5	3.2W
+34	11.5	2.5W
+33	10.0	2W
+32	9.0	1.6W
+31	8.0	1.25W
+30	7.10	1.0W
+29	6.40	800 mW
+28	5.80	640 mW
+27	5.00	500 mW
+26	4.45	400 mW
+25	4.00	320 mW
+24	3.55	250 mW
+23	3.20	200 mW
+22	2.80	160 mW
+21	2.52	125 mW
+20	2.25	100 mW
+19	2.00	80 mW
+18	1.80	64 mW
+17	1.60	50 mW
+16	1.41	40 mW
+15	1.25	32 mW
+14	1.15	25 mW
+13	1.00	20 mW
+12	0.90	16 mW
+11	0.80	12.5 mW
+10	0.71	10 mW
+9	0.64	8 mW
+8	0.58	6.4 mW
+7	0.50	5 mW
+6	0.45	4 mW
+5	0.40	3.2 mW
+4	0.36	2.5 mW
+3	0.32	2.0 mW

dBm	V	Po
+2	0.28	1.6 mW
+1	0.25	1.25 mW
0	0.23	1.0 mW
-1	0.20	.80 mW
-2	0.18	.64 mW
-3	0.16	.50 mW
-4	0.14	.40 mW
-5	0.13	.32 mW
-6	0.12	.25 mW
-7	0.10	.20 mW
-8	0.09	.16 mW
-9	0.08	.125 mW
-10	0.07	.10 mW
-11	0.06	
-12	0.06	
-13	0.05	
-14	0.05	
-15	0.04	
-16	0.0355	
dBm	mV	Po
-17	31.5	
-18	28.5	
-19	25.1	
-20	22.5	.01 mW
-21	20.0	
-22	17.9	
-23	15.9	
-24	14.1	
-25	12.8	
-26	11.5	
-27	10.0	
-28	8.9	
-29	8.0	
-30	7.1	.001 mW
-31	6.25	
-32	5.8	
-33	5.0	
-34	4.5	
-35	4.0	
-36	3.5	
-37	3.2	
-38	2.85	
-39	2.5	
-40	2.25	.1 μ W
-41	2.0	
-42	1.8	
-43	1.6	
-44	1.4	
-45	1.25	

dBm	mV	Po
-46	1.18	
-47	1.0	
-48	0.9	
-49	0.8	
-50	0.71	.01 μ W
-51	0.64	
-52	0.57	
-53	0.5	
-54	0.45	
-55	0.4	
-56	0.351	
-57	0.32	
-58	0.286	
-59	0.251	
-60	0.225	.001 μ W
-61	0.2	
-62	0.18	
-63	0.16	
-64	0.141	
dBm	μ V	Po
-65	128	
-66	115	
-67	100	
-68	90	
-69	80	
-70	71	.1 nW
-71	65	
-72	58	
-73	50	
-74	45	
-75	40	
-76	35	
-77	32	
-78	29	
-79	25	
-80	22.5	.01 nW
-81	20	
-82	18	
-83	16	
-84	11.1	
-85	12.9	
-86	11.5	
-87	10.0	
-88	9.0	
-89	8.0	
-90	7.1	.001 nW
-91	6.1	
-92	5.75	
-93	5.0	

dBm	μ V	Po
-94	4.5	
-95	4.0	
-96	3.51	
-97	3.2	
-98	2.9	
-99	2.51	
-100	2.25	.1 pW
-101	2.0	
-102	1.8	
-103	1.6	
-104	1.41	
-105	1.27	
-106	1.18	
dBm	nV	Po
-107	1000	
-108	900	
-109	800	
-110	710	.01 pW
-109	640	
-112	580	
-113	500	
-114	450	
-115	400	
-116	355	
-117	825	
-118	285	
-119	251	
-120	225	.001 pW
-121	200	
-122	180	
-123	160	
-124	141	
-125	128	
-126	117	
-127	100	
-128	90	
-129	80	
-130	71	.1 fW
-131	61	
-132	58	
-133	50	
-134	45	
-135	40	
-136	35	
-137	33	
-138	29	
-139	25	
-140	23	.01 fW



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RETURN LOSS CONVERSION TABLE

Return Loss (dBm)	VSWR
46.064	1.01
40.086	1.02
36.607	1.03
34.151	1.04
32.256	1.05
30.714	1.06
29.417	1.07
28.299	1.08
27.318	1.09
26.444	1.10
25.658	1.11
24.943	1.12
24.289	1.13
23.686	1.14
23.127	1.15
22.607	1.16
22.120	1.17
21.664	1.18
21.234	1.19
20.828	1.20
20.443	1.21
20.079	1.22
19.732	1.23
19.401	1.24
19.085	1.25
18.783	1.26
18.493	1.27
18.216	1.28
17.949	1.29
17.690	1.30
17.445	1.31
17.207	1.32
16.977	1.33
16.755	1.34
16.540	1.35
16.332	1.36
16.131	1.37
15.936	1.38
15.747	1.39
15.563	1.40
15.385	1.41
15.211	1.42
15.043	1.43
14.879	1.44
14.719	1.45
14.564	1.46
14.412	1.47
14.264	1.48
14.120	1.49
13.979	1.50

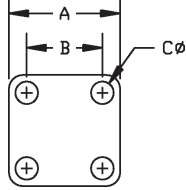
Return Loss (dBm)	VSWR
13.842	1.51
13.708	1.52
13.577	1.53
13.449	1.54
13.324	1.55
13.201	1.56
13.081	1.57
12.964	1.58
12.849	1.59
12.736	1.60
12.625	1.61
12.518	1.62
12.412	1.63
12.308	1.64
12.207	1.65
12.107	1.66
12.009	1.67
11.913	1.68
11.818	1.69
11.725	1.70
11.634	1.71
11.545	1.72
11.457	1.73
11.370	1.74
11.285	1.75
11.202	1.76
11.120	1.77
11.039	1.78
10.960	1.79
10.881	1.80
10.804	1.81
10.729	1.82
10.654	1.83
10.581	1.84
10.509	1.85
10.437	1.86
10.367	1.87
10.298	1.88
10.230	1.89
10.163	1.90
10.097	1.91
10.032	1.92
9.968	1.93
9.904	1.94
9.842	1.95
9.780	1.96
9.720	1.97
9.660	1.98
9.601	1.99
9.542	2.00

Return Loss (dBm)	VSWR
9.485	2.01
9.428	2.02
9.372	2.03
9.317	2.04
9.262	2.05
9.208	2.06
9.155	2.07
9.103	2.08
9.051	2.09
8.999	2.10
8.949	2.11
8.899	2.12
8.849	2.13
8.800	2.14
8.752	2.15
8.705	2.16
8.657	2.17
8.611	2.18
8.565	2.19
8.519	2.20
8.474	2.21
8.430	2.22
8.386	2.23
8.342	2.24
8.299	2.25
8.257	2.26
8.215	2.27
8.173	2.28
8.138	2.29
8.091	2.30
8.051	2.31
8.011	2.32
7.972	2.33
7.933	2.34
7.894	2.35
7.856	2.36
7.818	2.37
7.781	2.38
7.744	2.39
7.707	2.40
7.671	2.41
7.635	2.42
7.599	2.43
7.564	2.44
7.529	2.45
7.494	2.46
7.460	2.47
7.426	2.48
7.393	2.49
7.360	2.50

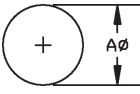
Return Loss (dBm)	VSWR
7.327	2.51
7.294	2.52
7.262	2.53
7.230	2.54
7.198	2.55
7.167	2.56
7.135	2.57
7.105	2.58
7.074	2.59
7.044	2.60
7.014	2.61
6.984	2.62
6.954	2.63
6.925	2.64
6.896	2.65
6.867	2.66
6.839	2.67
6.811	2.68
6.783	2.69
6.755	2.70
6.728	2.71
6.700	2.72
6.673	2.73
6.646	2.74
6.620	2.75
6.594	2.76
6.567	2.77
6.541	2.78
6.516	2.79
6.490	2.80
6.465	2.81
6.440	2.82
6.415	2.83
6.390	2.84
6.366	2.85
6.341	2.86
6.317	2.87
6.293	2.88
6.270	2.89
6.246	2.90
6.223	2.91
6.200	2.92
6.177	2.93
6.154	2.94
6.131	2.95
6.109	2.96
6.086	2.97
6.064	2.98
6.042	2.99
6.021	3.00

Return Loss (dBm)	VSWR
5.999	3.01
5.970	3.02
5.956	3.03
5.935	3.04
5.914	3.05
5.893	3.06
5.872	3.07
5.852	3.08
5.832	3.09
5.811	3.10
5.791	3.11
5.771	3.12
5.751	3.13
5.732	3.14
5.712	3.15
5.693	3.16
5.674	3.17
5.654	3.18
5.635	3.19
5.617	3.20
5.598	3.21
5.579	3.22
5.561	3.23
5.542	3.24
5.524	3.25
5.506	3.26
5.488	3.27
5.470	3.28
5.452	3.29
5.435	3.30
5.417	3.31
5.400	3.32
5.383	3.33
5.365	3.34
5.348	3.35
5.331	3.36
5.315	3.37
5.298	3.38
5.281	3.39
5.265	3.40
5.248	3.41
5.232	3.42
5.216	3.43
5.200	3.44
5.184	3.45
5.168	3.46
5.152	3.47
5.137	3.48
5.121	3.49
5.105	3.50

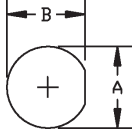
MOUNTING HOLES



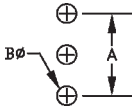
CODE	A	B	C
A01	.500	.340	.102
A02	.687	.500	.109
A03	.687	.500	#3-56 TAP
A04	.687	.500	.125
A05	1.000	.718	.125
A06	.750	.531	.140
A07	.750	.531	.125
A08	1.190	.906	.125
A09	.687	.500	#4-40 TAP
A10	.687	.500	.136
A11	1.250	.975	.147
A12	2.000	1.440	.257
A13	1.000	.718	.141
A14	1.000	.718	.144
A15	.687	.500	.104
A16	.750	.531	.136
A17	.375	.232	.067
A18	.625	.437	.094
A19	1.000	.718	#6-32 TAP
A20	.500	.340	#2-56 TAP
A21	1.250	.975	.142
A22	.375	.232	.093



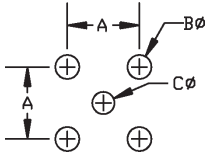
CODE	A
F01	.250
F02	.500
F03	.630
F04	1.200
F05	.380
F06	.450
F07	.200
F08	.362
F09	.220
F10	.317
F11	4.83mm
F12	.390



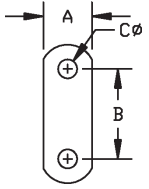
CODE	A	B
B01	.195	.177
B02	.250	.235
B03	.330	.295
B04	.380	.350
B05	.440	.410
B06	.512	.480
B07	.760	.720
B08	.565	.537
B09	.314	.296
B10	.140	.126
B11	.695	.655
B12	.625	.575
B13	.405	.361
B14	.277	.252
B15	.630	.596
B16	.317	.285
B17	.284	.268



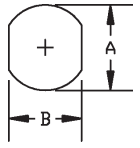
CODE	A	B
J01	.200	.046



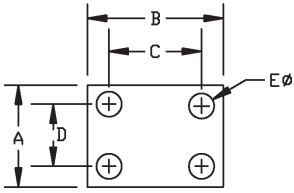
CODE	A	B	C
D01	.200	.067	.062
D02	.200	.067	.046
D03	.100	.031	.031
D04	.200	.052	.052
D05	.260	.067	.043
D06	.200	.052	.047
D07	.200	.055	.043
D08	.200	.067	.035
D09	.200	.055	.028
D10	.200	.055	.035
D11	.320	.091	.031
D12	.400	.062	.062
D13	.320	.091	.091
D14	.340	.091	.043
D15	.164	.067	.091
D16	.500	.126	.440
D17	.380	.083	.043



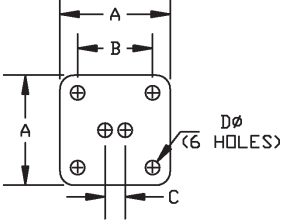
CODE	A	B	C
C01	.223	.481	.102
C02	.260	.481	.102
C03	.192	.328	.067
C04	.640	1.000	.125
C05	.275	.481	.102
C06	.230	.354	.067
C07	.188	.328	.093



CODE	A	B
G01	.640	.546
G02	.380	.340
G03	.765	.712
G04	.362	.323
G05	.236	.197
G06	.217	.177
G07	.380	.310
G08	1.161	1.000



CODE	A	B	C	D	E
E01	.375	.500	.340	.222	.093



CODE	A	B	C	D
H01	.687	.500	.125	.045



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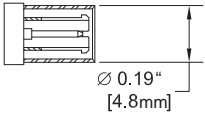
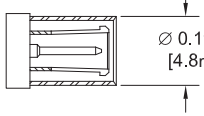
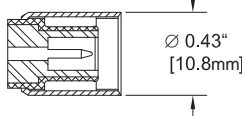
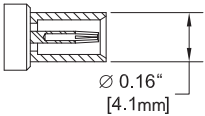
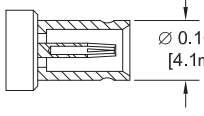
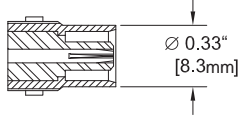
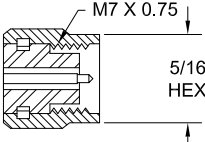
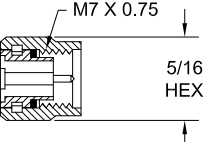
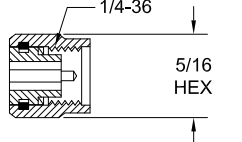
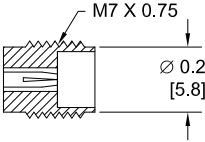
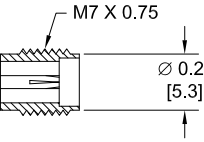
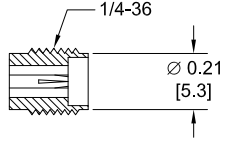
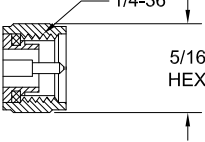
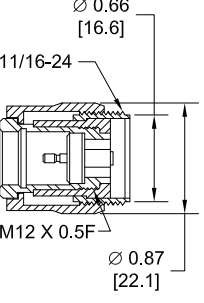
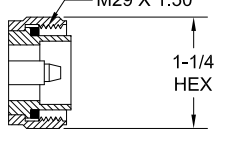
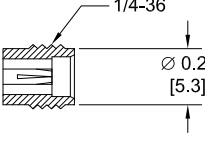
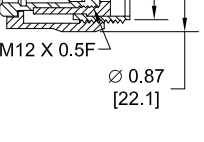
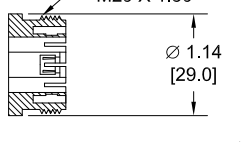
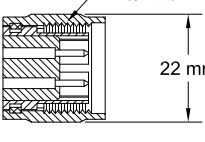
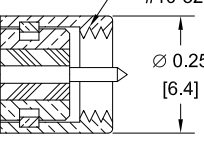
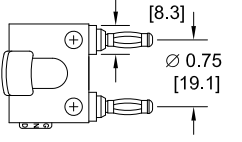
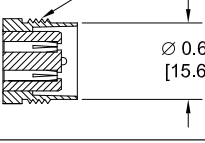
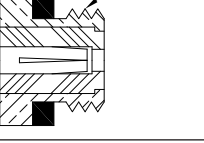
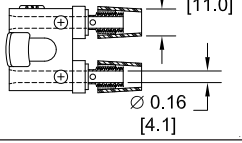
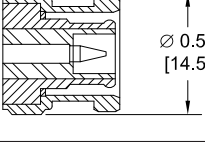
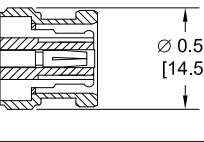
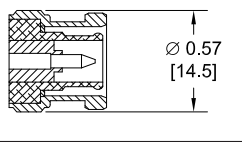
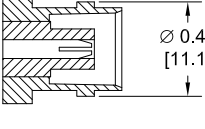
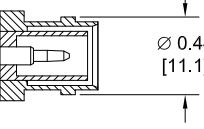
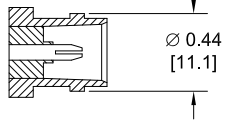
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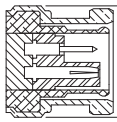
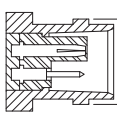
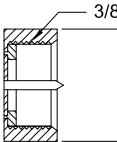
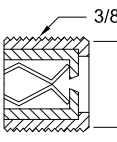
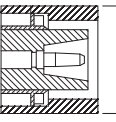
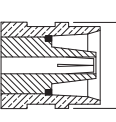
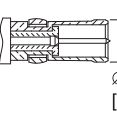
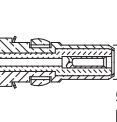
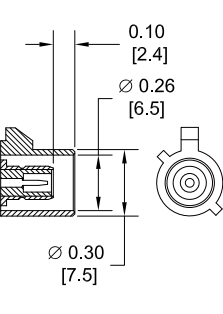
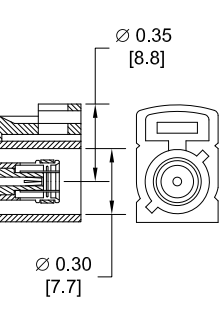
















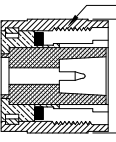
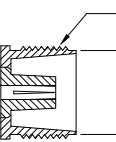
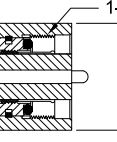
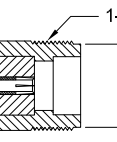
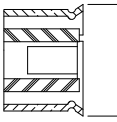
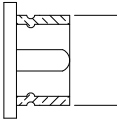
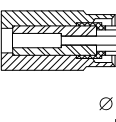
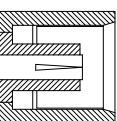
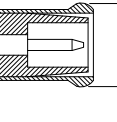
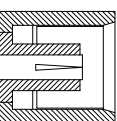
1.0/2.3 SLIDE ON	PLUG		1.0/2.3 SNAP ON	PLUG		1.6/56	PLUG	
	JACK			JACK			JACK	
1.85 mm**	MALE		2.4 mm**	MALE		2.92 mm*	MALE	
	FEMALE			FEMALE			FEMALE	
3.5 mm*	MALE		7 mm	MALE		7/16	PLUG	
	FEMALE			FEMALE			JACK	
3/4-20 TWINAX	MALE		10 - 32	MALE		BANANA	PLUG	
	FEMALE			FEMALE			JACK	
BNC	MALE		REVERSE POLARITY BNC	MALE		75 OHM BNC	MALE	
	FEMALE			FEMALE			FEMALE	

*SMA, 2.92mm, & 3.5mm CONNECTORS WILL MATE MECHANICALLY & ELECTRICALLY TO EACH OTHER.

**1.85mm & 2.4mm CONNECTORS WILL MATE MECHANICALLY & ELECTRICALLY TO EACH OTHER.

CONNECTOR IDENTIFIER

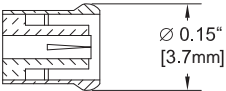
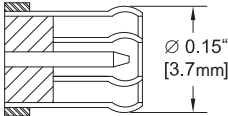
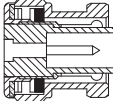
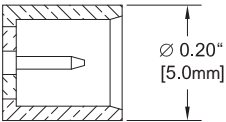
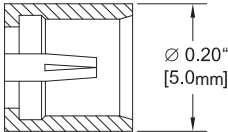
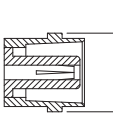
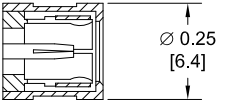
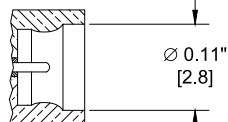
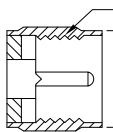
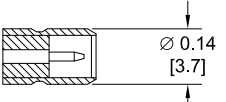
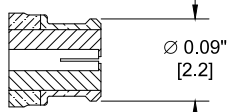
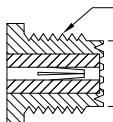
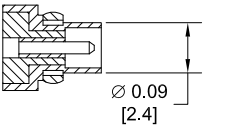
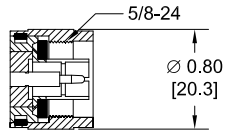
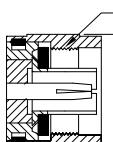
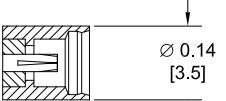
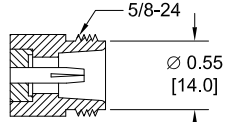
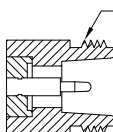
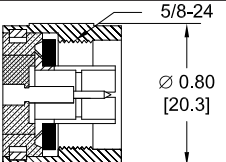
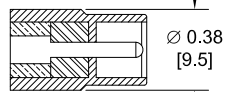
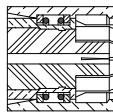
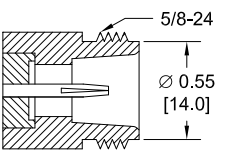
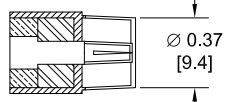
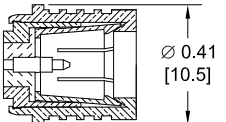
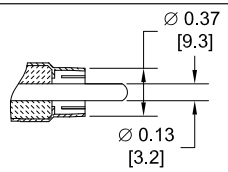
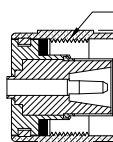
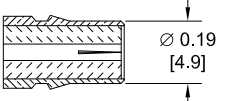
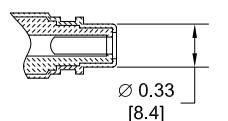
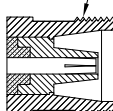
SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY

BNC TWINAX	PLUG	 Ø 0.57" [14.5mm]				
	JACK	 Ø 0.44" [11.1mm]				
F	MALE	 3/8-32 7/16 HEX				
	FEMALE	 3/8-32 Ø 0.34 [8.5]				
C	MALE	 Ø 0.75" [19.1mm]				
	FEMALE	 Ø 0.60" [15.2mm]				
D SUBMINIATURE	PLUG	 Ø 0.19" [4.8mm]				
	RECEPTACLE	 Ø 0.15" [3.9mm]				
FAKRA	PLUG	 0.10 [2.4] Ø 0.26 [6.5] Ø 0.30 [7.5]				
	JACK	 Ø 0.35 [8.8] Ø 0.30 [7.7]				
FAKRA	COMPLETE KEY CODE INFO	CODE	JACK	PLUG	COLOR	APPLICATION
		A			BLACK	RADIO WITH PHANTOM SUPPLY
		B			WHITE	RADIO WITHOUT PHANTOM SUPPLY
		C			BLUE	GPS: TELEMATICS OR NAVIGATION
		D			BORDEAUX	GSM: CELLULAR PHONE
H			VIOLET	GPS: TELEMATICS AND NAVIGATION		
I			BEIGE	BLUETOOTH		
K			CURRY	RADIO WITH I.F. OUTPUT (ANTENNA DIVERSITY)		
Z			WATER BLUE	NEUTRAL CODING		
GR874	MALE	 3/4-20 Ø 0.90 [22.9]				
	FEMALE	 3/4-20 Ø 0.67 [17.1]				
LC	MALE	 1-1/4-18 1-1/2 HEX				
	FEMALE	 1-1/4-18 Ø 1.17 [29.6]				
UMCX	PLUG	 Ø 0.10 [2.5]				
	JACK	 Ø 0.08 [2.0]				
MC-CARD	PLUG	 Ø 0.087 [2.2]				
	JACK	 Ø 0.20 [5.0]				
MCX	PLUG	 Ø 0.15 [3.7]				
	JACK	 Ø 0.20 [5.0]				



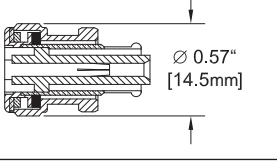
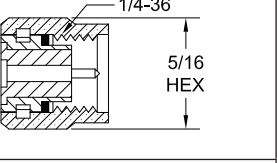
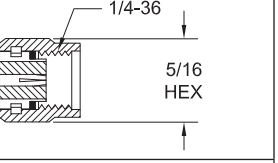
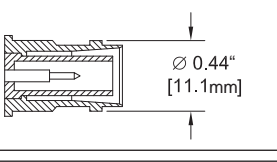
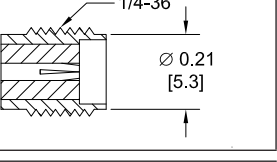
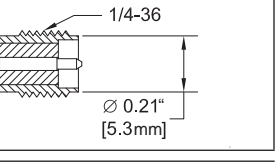
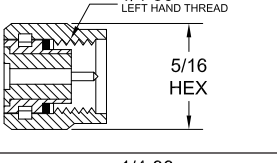
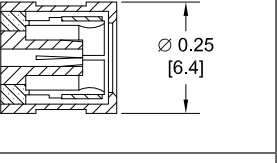
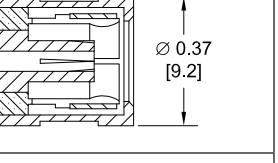
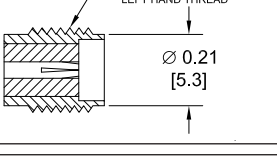
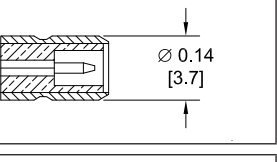
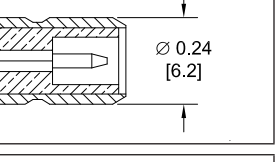
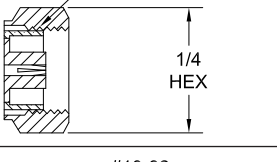
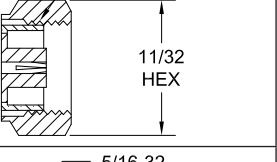
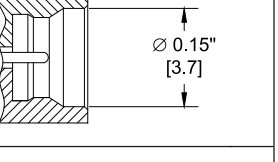
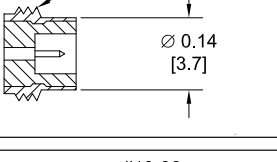
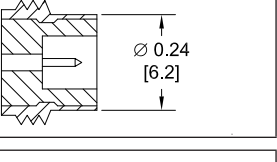
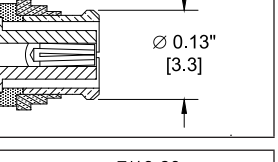
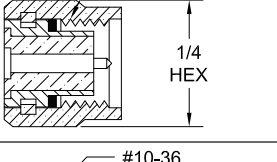
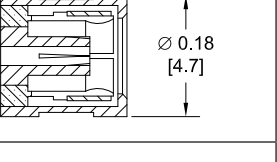
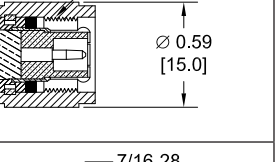
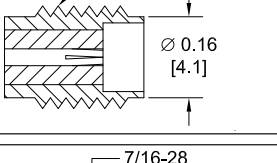
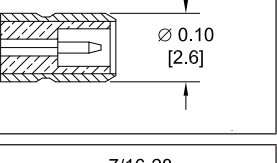
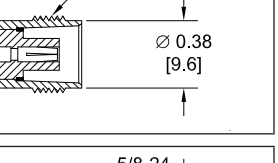
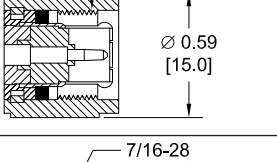
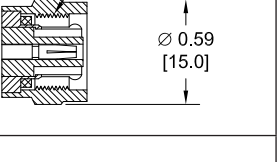
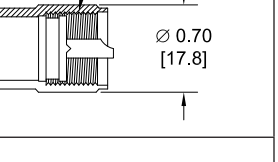
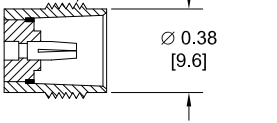
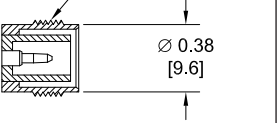
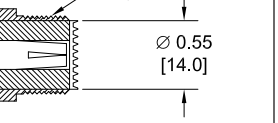
CONNECTOR IDENTIFIER

SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY

REVERSE POLARITY MCX	PLUG	 Ø 0.15" [3.7mm]	75 OHM MCX	PLUG	 Ø 0.15" [3.7mm]	MHV	MALE	 Ø 0.57" [14.5mm]
	JACK	 Ø 0.20" [5.0mm]		JACK	 Ø 0.20" [5.0mm]		FEMALE	 Ø 0.44" [11.1mm]
MINI 75 OHM SMB	PLUG	 Ø 0.25 [6.4]	MINI SMP	MALE	 Ø 0.11" [2.8]	MINI-UHF	MALE	 3/8-24 Ø 0.45 [11.5]
	JACK	 Ø 0.14 [3.7]		FEMALE	 Ø 0.09" [2.2]		FEMALE	 3/8-24 Ø 0.31 [7.8]
MMCX	PLUG	 Ø 0.09 [2.4]	N	MALE	 5/8-24 Ø 0.80 [20.3]	REVERSE POLARITY N	MALE	 5/8-24 Ø 0.80 [20.3]
	JACK	 Ø 0.14 [3.5]		FEMALE	 5/8-24 Ø 0.55 [14.0]		FEMALE	 5/8-24 Ø 0.55 [14.0]
75 OHM N	MALE	 5/8-24 Ø 0.80 [20.3]	PAL	PLUG	 Ø 0.38 [9.5]	POSITIVE SNAP	 Ø 0.39 [9.9]	
	FEMALE	 5/8-24 Ø 0.55 [14.0]		JACK	 Ø 0.37 [9.4]			
OMA	MALE	 Ø 0.41 [10.5]	RCA	PLUG	 Ø 0.37 [9.3] Ø 0.13 [3.2]	SC	MALE	 11/16-24 Ø 0.80 [20.3]
	FEMALE	 Ø 0.19 [4.9]		JACK	 Ø 0.33 [8.4]		FEMALE	 11/16-24 Ø 0.63 [15.9]

CONNECTOR IDENTIFIER

SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY

SHV	PLUG	 Ø 0.57" [14.5mm]	SMA*	MALE	 1/4-36 5/16 HEX	REVERSE POLARITY SMA	MALE	 1/4-36 5/16 HEX
	JACK	 Ø 0.44" [11.1mm]		FEMALE	 1/4-36 Ø 0.21 [5.3]		FEMALE	 1/4-36 Ø 0.21" [5.3mm]
SMA REVERSE THREAD	MALE	 1/4-36 LEFT HAND THREAD 5/16 HEX	SMB	PLUG	 Ø 0.25 [6.4]	75 OHM SMB	PLUG	 Ø 0.37 [9.2]
	FEMALE	 1/4-36 LEFT HAND THREAD Ø 0.21 [5.3]		JACK	 Ø 0.14 [3.7]		JACK	 Ø 0.24 [6.2]
SMC	PLUG	 #10-32 1/4 HEX	75 OHM SMC	PLUG	 5/16-32 11/32 HEX	SMP	MALE	 Ø 0.15" [3.7]
	JACK	 #10-32 Ø 0.14 [3.7]		JACK	 5/16-32 Ø 0.24 [6.2]		FEMALE	 Ø 0.13" [3.3]
SSMA	MALE	 #10-36 1/4 HEX	SSMB	PLUG	 Ø 0.18 [4.7]	TNC	MALE	 7/16-28 Ø 0.59 [15.0]
	FEMALE	 #10-36 Ø 0.16 [4.1]		JACK	 Ø 0.10 [2.6]		FEMALE	 7/16-28 Ø 0.38 [9.6]
75 OHM TNC	MALE	 7/16-28 Ø 0.59 [15.0]	REVERSE POLARITY TNC	MALE	 7/16-28 Ø 0.59 [15.0]	UHF	MALE	 5/8-24 Ø 0.70 [17.8]
	FEMALE	 7/16-28 Ø 0.38 [9.6]		FEMALE	 7/16-28 Ø 0.38 [9.6]		FEMALE	 5/8-24 Ø 0.55 [14.0]

*SMA, 2.92mm & 3.5mm CONNECTORS WILL MATE MECHANICALLY & ELECTRICALLY TO EACH OTHER.



Free Shipping Available
via UPS Ground to
USA & Canada

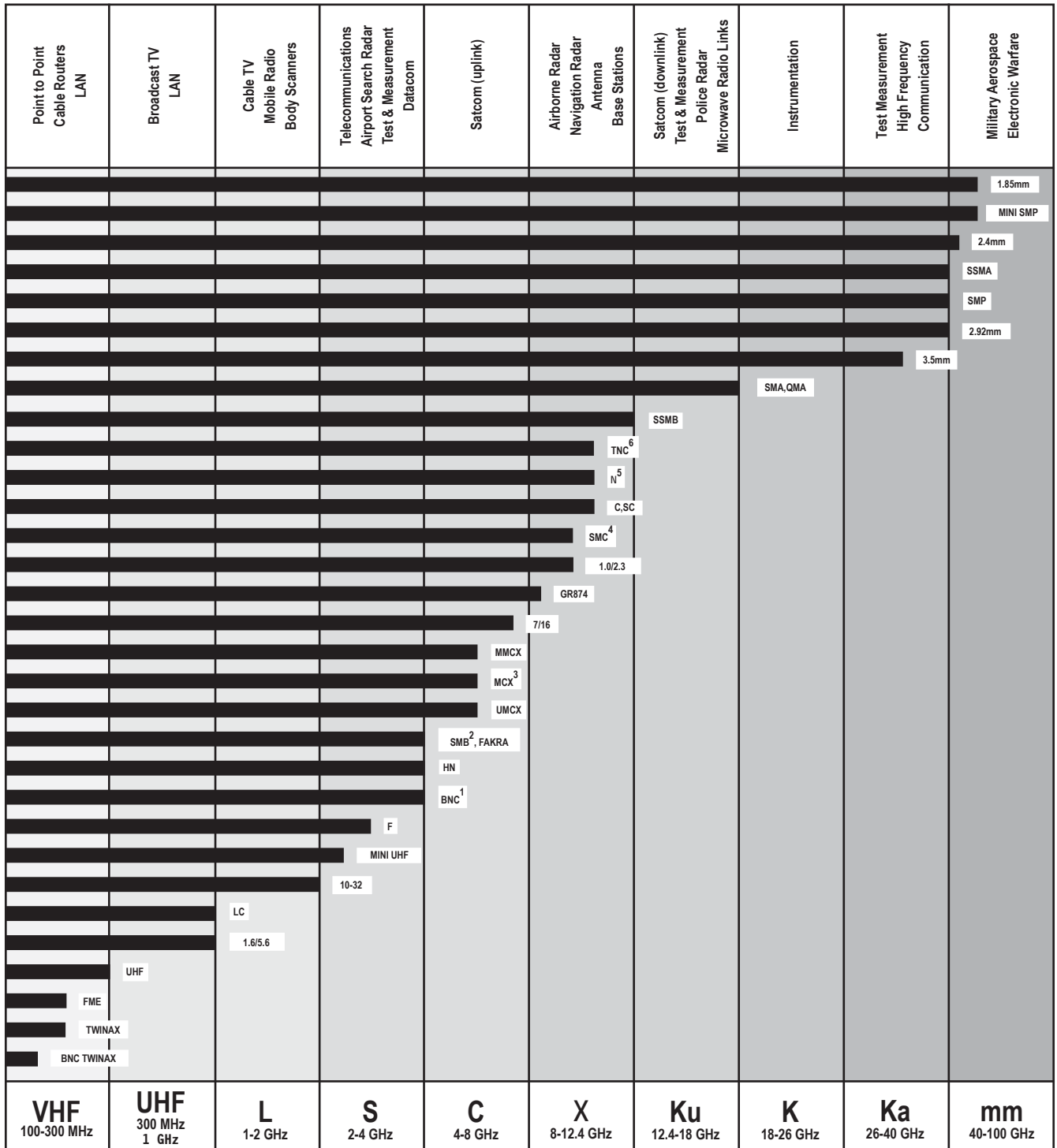


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Notes:

- 1: BNC-75 Ohm connectors operate up to 1 GHz
- 2: SMB-75 Ohm & Mini SMB-75 Ohm connectors operate up to 4 GHz
- 3: MCX-75 Ohm connectors operate up to 6 GHz
- 4: SMC-75 Ohm connectors operate up to 10 GHz
- 5: N-75 Ohm connectors operate up to 1.5 GHz
- 6: TNC-75 Ohm connectors operate up to 1 GHz