

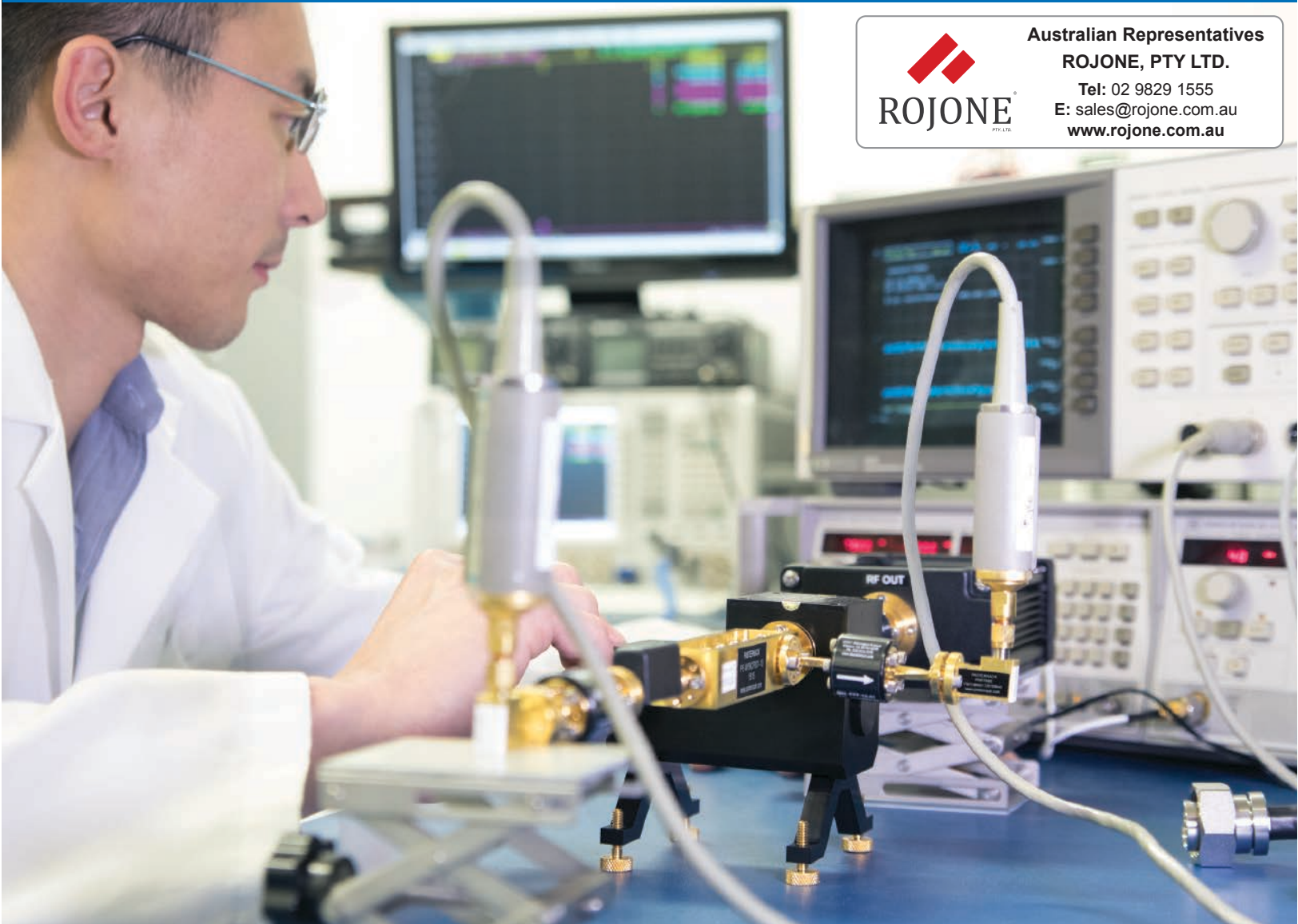
Pasternack

# 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

Bi Directional Amplifiers.....	<b>43</b>
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### 3. Amplifiers Locator

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

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

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



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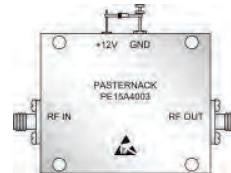
# BI-DIRECTIONAL AMPLIFIERS



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					
Broadband, High Rel	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					
		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
Broadband	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						28/600	EAR99	PE15A4037	\$4,445.88	\$4,179.13	\$3,956.83	\$3,779.00	17				
Broadband	500 MHz - 10	32	1	3	25		12/375	EAR99	PE15A3005	\$2,644.00	\$2,485.36	\$2,353.16	\$2,247.40	18					
		27					2.5	12/330	EAR99	PE15A3008	\$2,586.02	\$2,430.86	\$2,301.56	\$2,198.12	19				
Broadband, High Rel	500 MHz - 18	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		
	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				
	2 - 6	22	0.6		27	12/420	EAR99	PE15A4041	\$2,031.90	\$1,909.99	\$1,808.39	\$1,727.12	24						
		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						
		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						
Broadband	2 - 8	12			16	12/65	EAR99	PE15A4051	\$1,569.83	\$1,475.64	\$1,397.15	\$1,334.36	30						
Broadband, High Rel		33				1.5	3.5	13	12/180	EAR99	PE15A3265	\$2,437.53	\$2,291.28	\$2,169.40	\$1,974.40	31			
Broadband	2 - 18	37			30.5	15/850	EAR99	PE15A3022	\$4,689.00	\$4,407.66	\$4,173.21	\$3,985.65	32						
Broadband, High Rel		15				0.75	3	26	12/310	EAR99	PE15A4027	\$5,762.10	\$5,416.37	\$5,128.27	\$4,897.79	33			
Broadband	2 - 20	31							15/400	EAR99	PE15A4030	\$3,774.49	\$3,548.02	\$3,359.30	\$3,208.32	34			
Broadband		2 - 24	12		4	28	12/260	EAR99	PE15A3009	\$2,042.49	\$1,919.94	\$1,817.82	\$1,715.69	35					
Broadband, High Rel	2 - 35		0.4				18	18.5	3A001.B.4.C	PE15A3038	\$6,913.84	\$6,499.01	\$6,153.32	\$5,876.76	36				
Broadband, High Rel	3.1 - 3.5	30	0.7	4.5	30		12/900	EAR99	PE15A4046	\$2,361.88	\$2,220.17	\$2,102.07	\$2,007.60	37					
		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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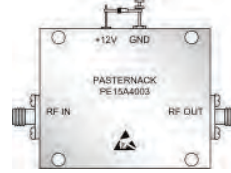


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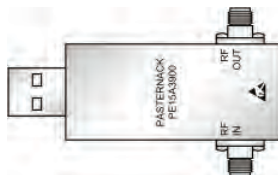
# BROADBAND AMPLIFIERS



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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	<a href="#">PE15A3018</a>	\$2,986.38	\$2,807.20	\$2,657.88	\$2,418.97	42								
			1.5						30	<a href="#">PE15A3019</a>	\$3,790.80	\$3,563.35	\$3,373.81	\$3,222.18	43							
		42	2	5.4	27				<a href="#">PE15A3017</a>	\$3,212.83	\$3,020.06	\$2,859.42	\$2,730.91	44								
					33				30	<a href="#">PE15A3020</a>	\$3,166.66	\$2,976.66	\$2,818.33	\$2,564.99	45							
Broadband	12.4 - 26.5	35		3	24.5		15/2,000	EAR99	<a href="#">PE15A4002</a>	\$3,423.05	\$3,217.67	\$3,046.51	\$2,909.59	46								
Broadband, High Rel	17 - 24	22					12/500	EAR99	<a href="#">PE15A3024</a>	\$6,629.84	\$6,232.05	\$5,900.56	\$5,635.36	47								
Broadband, High Rel	18 - 40	30	2.5	6.5	20		12/350	EAR99	<a href="#">PE15A3025</a>	\$6,009.22	\$5,648.67	\$5,348.21	\$5,107.84	49								
Broadband	26.5 - 40		2	6					<a href="#">PE15A4022</a>	\$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	<a href="#">PE15A3503</a>	\$2,957.52	\$2,780.07	\$2,632.19	\$2,513.89	51								
									<a href="#">PE15A3504</a>	\$3,723.76	\$3,500.33	\$3,314.15	\$3,165.20	52								
									<a href="#">PE15A3506</a>	\$3,817.28	\$3,588.24	\$3,397.38	\$3,244.69	53								
									<a href="#">PE15A3505</a>	\$3,215.44	\$3,022.51	\$2,861.74	\$2,733.12	54								
									<a href="#">PE15A3507</a>	\$3,614.12	\$3,397.27	\$3,216.57	\$3,072.00	55								
									<a href="#">PE15A3308</a>	\$750.24	\$705.23	\$667.71	\$637.70	56								
Low Noise	0.01 MHz - 3	16	1.5	4	12		15/47	EAR99	<a href="#">PE15A3308</a>	\$750.24	\$705.23	\$667.71	\$637.70	56								
									<a href="#">PE15A3311</a>	\$875.28	\$822.76	\$779.00	\$743.99	57								
									<a href="#">PE15A3310</a>	\$875.28	\$822.76	\$779.00	\$743.99	58								
									<a href="#">PE15A3309</a>	\$847.49	\$796.64	\$754.27	\$720.37	59								
Low Noise, High Rel	10 MHz - 20	15	0.5	3	22	24	12/130	EAR99	<a href="#">PE15A3269</a>	\$541.84	\$509.33	\$482.24	\$460.56	60								
									<a href="#">PE15A3272</a>	\$5,186.23	\$4,875.06	\$4,615.74	\$4,408.30	61								
									<a href="#">PE15A3254</a>	\$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	<a href="#">PE15A3255</a>	\$1,346.75	\$1,265.95	\$1,198.61	\$1,144.74	63								
									<a href="#">PE15A3256</a>	\$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	<a href="#">PE15A3267</a>	\$4,747.62	\$4,462.76	\$4,225.38	\$3,845.57	65								
									500 MHz - 20	14	1.75	3	14	17.5	EAR99	<a href="#">PE15A3253</a>	\$2,693.07	\$2,531.49	\$2,396.83	\$2,289.11	66	
																<a href="#">PE15A3276</a>	\$6,416.96	\$6,031.94	\$5,711.09	\$5,454.42	67	
									2 - 8	14	2.5	13	10	13	17.5	EAR99	<a href="#">PE15A3290</a>	\$1,736.68	\$1,632.48	\$1,545.65	\$1,476.18	68
																	<a href="#">PE15A3291</a>	\$2,084.00	\$1,958.96	\$1,854.76	\$1,771.40	69
Low Noise	2 - 18	20	2.5	3.5	10		13.5/100	EAR99	<a href="#">PE15A3301</a>	\$5,446.20	\$5,119.43	\$4,847.12	\$4,629.27	70								
									<a href="#">PE15A3257</a>	\$1,733.62	\$1,629.60	\$1,542.92	\$1,473.58	71								
									<a href="#">PE15A3258</a>	\$2,147.70	\$2,018.84	\$1,911.45	\$1,825.55	72								
									<a href="#">PE15A3271</a>	\$3,774.49	\$3,548.02	\$3,359.30	\$3,208.32	73								
Low Noise, High Rel	2 - 20	13	0.5	2	16	21	12/78	EAR99	<a href="#">PE15A3270</a>	\$2,695.12	\$2,533.41	\$2,398.66	\$2,290.85	74								
									<a href="#">PE15A3272</a>	\$1,875.60	\$1,763.06	\$1,669.28	\$1,594.26	75								
									<a href="#">PE15A3293</a>	\$2,222.93	\$2,089.55	\$1,978.41	\$1,889.49	76								
									<a href="#">PE15A3295</a>	\$1,945.08	\$1,828.38	\$1,731.12	\$1,653.32	77								
									<a href="#">PE15A3302</a>	\$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	<a href="#">PE15A3294</a>	\$2,361.88	\$2,220.17	\$2,102.07	\$2,007.60	79								
									<a href="#">PE15A3259</a>	\$1,545.55	\$1,452.82	\$1,375.54	\$1,313.72	80								
Low Noise, High Rel	7 - 17	22		3.5	13		12/280	EAR99	<a href="#">PE15A3273</a>	\$3,774.49	\$3,548.02	\$3,359.30	\$3,208.32	81								
									<a href="#">PE15A3296</a>	\$1,875.60	\$1,763.06	\$1,669.28	\$1,594.26	82								
									<a href="#">PE15A3274</a>	\$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	<a href="#">PE15A3303</a>	\$5,307.25	\$4,988.82	\$4,723.45	\$4,511.16	84								
									<a href="#">PE15A3260</a>	\$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	<a href="#">PE15A3268</a>	\$7,581.60	\$7,126.70	\$6,747.62	\$6,444.36	86								
									<a href="#">PE15A3304</a>	\$9,041.10	\$8,498.63	\$8,046.58	\$7,684.94	87								
Low Noise	26.5 - 40	22	1	3.5	13.5		12/200	EAR99	<a href="#">PE15A3305</a>	\$9,982.36	\$9,383.42	\$8,884.30	\$8,485.01	88								
									<a href="#">PE15A3261</a>	\$1,914.96	\$1,800.06	\$1,704.31	\$1,627.72	89								
									<a href="#">PE15A3266</a>	\$5,800.82	\$5,452.77	\$5,162.73	\$4,930.70	90								
									<a href="#">PE15A3306</a>	\$8,165.82	\$7,675.87	\$7,267.58	\$6,940.95	91								
									<a href="#">PE15A3307</a>	\$9,881.63	\$9,288.73	\$8,794.65	\$8,399.39	92								
									<a href="#">PE15A3275</a>	\$3,774.49	\$3,548.02	\$3,359.30	\$3,208.32	93								

# 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	<a href="#">PE15A3900</a>	\$3,097.43	\$2,911.58	\$2,756.71	\$2,632.82	94
	50 MHz - 40		5				<a href="#">PE15A3901</a>	\$5,113.48	\$4,806.67	\$4,551.00	\$4,346.46	95

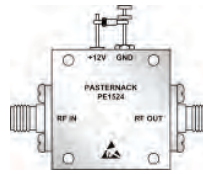
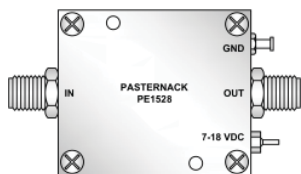
# BENCH-TOP AMPLIFIERS



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	<a href="#">PE15A3037</a>	\$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	<a href="#">PE15A3500</a>	\$11,353.64	\$10,672.42	\$10,104.74	\$9,650.59	2
							220/	EAR99	<a href="#">PE15A3513</a>	\$11,444.29	\$10,757.63	\$10,185.42	\$9,727.65	3
	100/	EAR99	<a href="#">PE15A3514</a>				\$15,612.29	\$14,675.55	\$13,894.94	\$13,270.45	4			
	220/	EAR99	<a href="#">PE15A3515</a>				\$15,612.29	\$14,675.55	\$13,894.94	\$13,270.45	5			
	120/60	EAR99	<a href="#">PE15A3595</a>				\$16,004.27	\$15,044.01	\$14,243.80	\$13,603.63	6			
	115/60	EAR99	<a href="#">PE15A3501</a>				\$11,894.96	\$11,181.26	\$10,586.51	\$10,110.72	7			
	20 - 40	30	2	10	/100	100/60	EAR99	<a href="#">PE15A3508</a>	\$11,962.16	\$11,244.43	\$10,646.32	\$10,167.84	8	
					/220	220/	EAR99	<a href="#">PE15A3509</a>	\$11,962.16	\$11,244.43	\$10,646.32	\$10,167.84	9	
					115/60	EAR99	<a href="#">PE15A3502</a>	\$14,601.55	\$13,725.46	\$12,995.38	\$12,411.32	10		
					100/	100/	EAR99	<a href="#">PE15A3510</a>	\$14,570.29	\$13,696.07	\$12,967.56	\$12,384.75	11	
					100/	100/	EAR99	<a href="#">PE15A3512</a>	\$11,444.29	\$10,757.63	\$10,185.42	\$9,727.65	12	
					/220	220/	EAR99	<a href="#">PE15A3511</a>	\$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	<a href="#">PE1514</a>	Call	Call	Call	Call	14	
		15	2	3	11	12	18/40	EAR99	<a href="#">PE1528</a>	\$124.03	\$116.59	\$110.39	\$105.43	15	
		20	14	2.7	13		15/50	EAR99	<a href="#">PE1513</a>	\$422.01	\$396.69	\$375.59	\$358.71	16	
	10 MHz - 6	15	0.35	4.5	3.5	12	26	12/50	EAR99	<a href="#">PE15A8001</a>	\$690.54	\$649.11	\$614.58	\$586.96	17
								12/150	EAR99	<a href="#">PE1517</a>	\$496.78	\$466.97	\$442.13	\$422.26	18
	12/150	EAR99	<a href="#">PE1518</a>	\$561.61				\$527.91	\$499.83	\$477.37	19				
	12/120	EAR99	<a href="#">PE15A8000</a>	\$717.47				\$674.42	\$638.55	\$609.85	20				
	15/120	EAR99	<a href="#">PE1516</a>	\$476.36				\$447.78	\$423.96	\$404.91	21				
	15/120	EAR99	<a href="#">PE1525</a>	\$430.11				\$404.30	\$382.80	\$365.59	22				
	50 MHz - 1	22	0.75												
	50 MHz - 2	26	1												
	50 MHz - 4	18	18		6	16									
100 MHz - 3	22	1.25		6	15										



Free Shipping Available via UPS Ground to USA & Canada

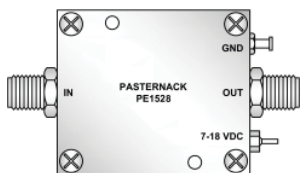


Technical Support (866) 727-8376



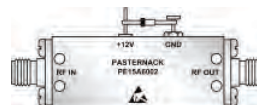
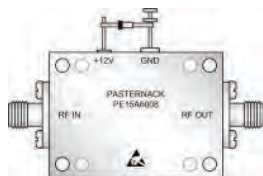
Same-Day Shipping, Even Custom Cable Assemblies

# GAIN BLOCK AMPLIFIERS



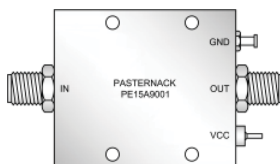
Amplifier Type	Frequency Band (GHz.)	Gain (dB)	Gain Var. $\pm$ (dB)	NF (dB)	P1dB (dBm)	IP3 (dBm)	DC Power (V/mA)	ECCN	Model No	1	2-4	5-9	10+	ROW
Gain Block, High Rel	500 MHz - 2	17	0.4	1.8		25	12/70	EAR99	<a href="#">PE15A8004</a>	\$937.80	\$881.53	\$834.64	\$797.13	23
		50	1.8				12/180	EAR99	<a href="#">PE15A8005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

# LIMITING AMPLIFIERS



Amplifier Type	Frequency Band (GHz.)	Gain (dB)	Gain Var. $\pm$ (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	<a href="#">PE15A6002</a>	\$2,228.97	\$2,095.23	\$1,983.78	\$1,894.62	33
	2 - 4	40			-20 to 10		15/200	EAR99	<a href="#">PE15A6015</a>	\$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	<a href="#">PE15A6007</a>	\$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	<a href="#">PE15A6008</a>	\$2,197.12	\$2,065.29	\$1,955.44	\$1,867.55	36
	6 - 18			4			13/300	EAR99	<a href="#">PE15A6012</a>	\$2,674.48	\$2,514.01	\$2,380.29	\$2,273.31	37

# LINEAR 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
Linear	50 MHz - 1	15	0.7	1.5	23	37	12/85	EAR99	<a href="#">PE15A9001</a>	\$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.

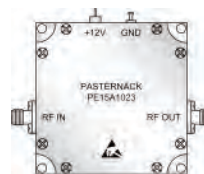
# LOG AMPLIFIERS



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	<a href="#">PE15A2000</a>	\$14,466.76	\$13,598.75	\$12,875.42	\$12,296.75	39
	2 - 6	60		1.75	-70 to 5	15	40	EAR99	<a href="#">PE15A2001</a>	\$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	<a href="#">PE15A2002</a>	\$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	<a href="#">PE15A2003</a>	\$16,799.48	\$15,791.51	\$14,951.54	\$14,279.56	42
6 - 18	-40		1	-40 to 0	50		EAR99	<a href="#">PE15A2004</a>	\$6,752.97	\$6,347.79	\$6,010.14	\$5,740.02	43	

Amplifiers

# 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	<a href="#">PE15A1007</a>	\$420.80	\$395.55	\$374.51	\$357.68	44	
	0.01 MHz - 500 MHz	45	0.5		11	23	16/75	EAR99	<a href="#">PE15A1046</a>	\$662.41	\$622.67	\$589.54	\$563.05	45	
	0.01 MHz - 1.4	42	1	3	19	32	16/120	EAR99	<a href="#">PE15A1055</a>	\$770.35	\$724.13	\$685.61	\$654.80	46	
	0.01 MHz - 2	28	2	3.2	13	23	18/45	EAR99	<a href="#">PE15A1059</a>	\$558.21	\$524.72	\$496.81	\$474.48	47	
	0.03 MHz - 600 MHz	50	1.2	2.2	14	24	18/85	EAR99	<a href="#">PE15A1047</a>	\$837.32	\$787.08	\$745.21	\$711.72	48	
	1 MHz - 500 MHz	33.5	1.5	2	13		30/40	EAR99	<a href="#">PE15A1045</a>	\$558.21	\$524.72	\$496.81	\$474.48	49	
	10 MHz - 250 MHz	17	0.5	1.4	22	39	5.25/160	EAR99	<a href="#">PE15A1043</a>	\$770.35	\$724.13	\$685.61	\$654.80	50	
	10 MHz - 550 MHz	29.7	0.3	1.7	19	34	15/105	EAR99	<a href="#">PE15A1044</a>	\$699.64	\$657.66	\$622.68	\$594.69	51	
	10 MHz - 600 MHz	40.5	0.8	0.9		15/140	EAR99	<a href="#">PE15A1063</a>	\$1,120.15	\$1,052.94	\$996.93	\$952.13	52		
	10 MHz - 800 MHz	60	42	0.7	2	27	30	15/100	EAR99	<a href="#">PE15A1048</a>	\$699.64	\$657.66	\$622.68	\$594.69	53
1.5			2.1	15/160	EAR99		<a href="#">PE15A1065</a>	\$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	15/110	EAR99	<a href="#">PE15A1011</a>	\$419.09	\$393.94	\$372.99	\$356.23	55		
1.5				32		15/120	EAR99	<a href="#">PE15A63000</a>	\$611.66	\$574.96	\$544.38	\$519.91	56		
Low Noise		32		2	12	23	15/40	EAR99	<a href="#">PE15A1049</a>	\$524.72	\$493.24	\$467.00	\$446.01	57	
High Gain		40	1	0.8	18		15/110	EAR99	<a href="#">PE15A1012</a>	\$442.94	\$416.36	\$394.22	\$376.50	58	
Input Protected Low Noise				1.5	17	31.5	15/110	EAR99	<a href="#">PE15A63001</a>	\$611.66	\$574.96	\$544.38	\$519.91	59	
High Gain		50	1.25	1	18	28	15/130	EAR99	<a href="#">PE15A1013</a>	\$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	<a href="#">PE15A1052</a>	\$770.35	\$724.13	\$685.61	\$654.80	61
			35	0.5	1.5	20	34	15/165	EAR99	<a href="#">PE15A1054</a>	\$911.75	\$857.05	\$811.46	\$774.99	62
		10 MHz - 3	34	0.75	1.4	11	25	15/95	EAR99	<a href="#">PE15A1009</a>	\$679.80	\$639.01	\$605.02	\$577.83	63
		20 MHz - 1	30	0.5	1.3	18	32	18/140	EAR99	<a href="#">PE15A1051</a>	\$770.35	\$724.13	\$685.61	\$654.80	64
	30.5		0.8	19		34	15/140	EAR99	<a href="#">PE15A1064</a>	\$1,120.15	\$1,052.94	\$996.93	\$952.13	65	
	20 MHz - 1.5	20	1.2	1	17	35	18/70	EAR99	<a href="#">PE15A1057</a>	\$662.41	\$622.67	\$589.54	\$563.05	66	
20 MHz - 3	25	0.75	1.6	13.5	25	15/75	EAR99	<a href="#">PE15A1008</a>	\$543.79	\$511.16	\$483.97	\$462.22	67		
20 MHz - 4		0.7	2	18	34	5.5/160	EAR99	<a href="#">PE15A1061</a>	\$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	<a href="#">PE15A63002</a>	\$611.66	\$574.96	\$544.38	\$519.91	69	
					23		15/160	EAR99	<a href="#">PE15A63003</a>	\$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	<a href="#">PE15A1060</a>	\$699.64	\$657.66	\$622.68	\$594.69	71	
	50 MHz - 1	18	0.5	1	16	32	18/70	EAR99	<a href="#">PE15A1050</a>	\$662.41	\$622.67	\$589.54	\$563.05	72	
		19			18	36	12/90	EAR99	<a href="#">PE15A1014</a>	\$279.00	\$262.26	\$248.31	\$237.15	73	
	50 MHz - 1.2	47	1	2.2	13	23	15/88	EAR99	<a href="#">PE15A1053</a>	\$770.35	\$724.13	\$685.61	\$654.80	74	

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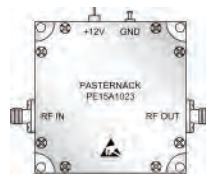
Technical Support (866) 727-8376



Same-Day Shipping, Even Custom Cable Assemblies



# LOW NOISE AMPLIFIERS

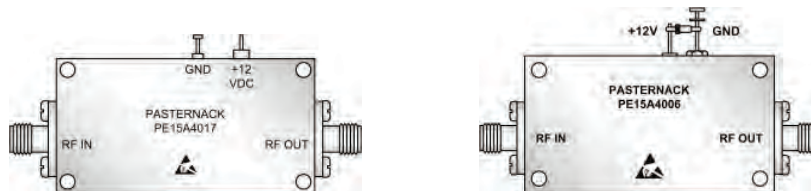


Amplifiers

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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
Low Noise	50 MHz - 2	27	0.75	1.8	22	37	13.5/160	EAR99	<a href="#">PE15A1042</a>	\$597.07	\$561.25	\$531.39	\$507.51	75
	100 MHz - 2	61.5	1	2.5	19	33	15/170	EAR99	<a href="#">PE15A1066</a>	\$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	<a href="#">PE15A1017</a>	\$326.36	\$306.78	\$290.46	\$277.41	77
		29	1	2.6			12/190	EAR99	<a href="#">PE15A1018</a>	\$413.01	\$388.23	\$367.58	\$351.06	78
	500 MHz - 4	24	2.5	0.7	17	34	15/65	EAR99	<a href="#">PE15A1068</a>	\$770.35	\$724.13	\$685.61	\$654.80	79
18							35	15/65	EAR99	<a href="#">PE15A1067</a>	\$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	<a href="#">PE15A63004</a>	\$573.10	\$538.71	\$510.06	\$487.14	81
		40					12/100	EAR99	<a href="#">PE15A63005</a>	\$573.10	\$538.71	\$510.06	\$487.14	82
1 - 1.4	30	12/110	EAR99	<a href="#">PE15A63006</a>	\$573.10	\$538.71	\$510.06	\$487.14	83					
Low Noise, High Rel	1 - 2	35	1.5	13/200	EAR99	<a href="#">PE15A1000</a>	\$1,226.57	\$1,152.98	\$1,091.65	\$1,042.58	84			
High Gain	1 - 4	40	0.8	11	25	12/120	EAR99	<a href="#">PE15A1019</a>	\$936.55	\$880.36	\$833.53	\$796.07	85	
Low Noise		20	1.2	20	41	15/120	EAR99	<a href="#">PE15A1070</a>	\$770.35	\$724.13	\$685.61	\$654.80	86	
Low Noise, High Rel	1 - 12	16	1.75	17	27	6/60	EAR99	<a href="#">PE15A1031</a>	\$3,948.14	\$3,711.25	\$3,513.84	\$3,355.92	87	
		25	10	13.2/150		EAR99	<a href="#">PE15A1023</a>	\$614.05	\$577.21	\$546.50	\$521.94	88		
High Gain, High Rel	1.2 - 1.4	35	0.75	1.5	17	13.2/180	EAR99	<a href="#">PE15A1024</a>	\$688.46	\$647.15	\$612.73	\$585.19	89	
		40	15	13.2/200	EAR99	<a href="#">PE15A1005</a>	\$1,146.33	\$1,077.55	\$1,020.23	\$974.38	90			
Low Noise	1.2 - 1.6	40	0.5	0.8	12	15/100	EAR99	<a href="#">PE15A1028</a>	\$625.20	\$587.69	\$556.43	\$531.42	91	
Integrated Band Pass Filter	1.215 - 1.4	25	0.75	0.5	16	12/130	EAR99	<a href="#">PE15A1039</a>	\$840.56	\$790.13	\$748.10	\$714.48	92	
		35	12/130	EAR99	<a href="#">PE15A1040</a>	\$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	<a href="#">PE15A1034</a>	\$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	15/110	EAR99	<a href="#">PE15A63007</a>	\$844.02	\$793.38	\$751.18	\$717.42	95	
Low Noise, High Rel	2 - 4	38	1	2	13	13/200	EAR99	<a href="#">PE15A1001</a>	\$1,485.15	\$1,396.04	\$1,321.78	\$1,262.38	96	
		40	0.9	14	25	15/90	EAR99	<a href="#">PE15A1010</a>	\$1,000.44	\$940.41	\$890.39	\$850.37	97	
Low Phase Noise, High Rel	2 - 18	12.5	6.5	13	5/80	EAR99	<a href="#">PE15A1030</a>	\$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	12/120	EAR99	<a href="#">PE15A63008</a>	\$844.02	\$793.38	\$751.18	\$717.42	99	
Low Phase Noise, High Rel	3 - 8	11	6	14	25	7/250	EAR99	<a href="#">PE15A1035</a>	\$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	17/150	EAR99	<a href="#">PE15A1006</a>	\$1,709.58	\$1,607.01	\$1,521.53	\$1,453.14	2	
Low Noise, High Rel	4 - 8	38	1	2	13	13/250	EAR99	<a href="#">PE15A1002</a>	\$1,604.86	\$1,508.57	\$1,428.33	\$1,364.13	3	
		22.5	1.75	14.8	25	12/105	EAR99	<a href="#">PE15A9002</a>	\$6,681.83	\$6,280.92	\$5,946.83	\$5,679.56	4	
Low Phase Noise, High Rel	6 - 12	11	1	4.5	20	34	7/200	EAR99	<a href="#">PE15A1032</a>	\$5,923.34	\$5,567.94	\$5,271.77	\$5,034.84	5
Low Noise	6 - 18	25	0.7	2.1	11	25	5.5/65	EAR99	<a href="#">PE15A1072</a>	\$1,503.47	\$1,413.26	\$1,338.09	\$1,277.95	6
		26	2.5	1.9			5.5/65	EAR99	<a href="#">PE15A1071</a>	\$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	<a href="#">PE15A1033</a>	\$6,910.58	\$6,495.95	\$6,150.42	\$5,873.99	8	
Low Noise, High Rel	8 - 12	18	1	2.2	13	25	13/150	EAR99	<a href="#">PE15A1027</a>	\$1,563.00	\$1,469.22	\$1,391.07	\$1,328.55	9
		28					13/200	EAR99	<a href="#">PE15A1026</a>	\$1,735.98	\$1,631.82	\$1,545.02	\$1,475.58	10
		38					13/250	EAR99	<a href="#">PE15A1003M</a>	\$2,003.59	\$1,883.37	\$1,783.20	\$1,703.05	11
		48					13/250	EAR99	<a href="#">PE15A1003</a>	\$1,856.42	\$1,745.03	\$1,652.21	\$1,577.96	12
		48					13/300	EAR99	<a href="#">PE15A1025</a>	\$2,152.78	\$2,023.61	\$1,915.97	\$1,829.86	13
Low Noise	12 - 18	38	3	13	13/300	EAR99	<a href="#">PE15A1004</a>	\$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	<a href="#">PE15A3300</a>	\$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	<a href="#">PE15A5030</a>	\$2,243.43	\$2,108.82	\$1,996.65	\$1,906.92	16	
High Power, Class AB, Power with Fan							28/1,700	EAR99	<a href="#">PE15A5030F</a>	\$2,913.17	\$2,738.38	\$2,592.72	\$2,476.19	17	
Power	20 MHz - 1	40	0.5	6	36		24/	EAR99	<a href="#">PE15A4072</a>	\$1,993.69	\$1,874.07	\$1,774.38	\$1,694.64	18	
	20 MHz - 3	27	0.75				30	12/220	EAR99	<a href="#">PE15A4017</a>	\$750.33	\$705.31	\$667.79	\$637.78	19
High Power	30 MHz - 2.5	43	2	5	30	40	12/2,800	EAR99	<a href="#">PE15A5011</a>	\$7,438.30	\$6,992.00	\$6,620.09	\$6,322.56	20	
Power	30 MHz - 3	38	1				28	12/450	EAR99	<a href="#">PE15A4009</a>	\$865.78	\$813.83	\$770.54	\$735.91	21
	50 MHz - 1	26	0.75	29	15/530	EAR99	<a href="#">PE15A4019</a>	\$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	<a href="#">PE15A5027</a>	\$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	<a href="#">PE15A4052</a>	\$9,853.86	\$9,262.63	\$8,769.94	\$8,375.78	25	
	500 MHz - 4	30		6	30	12/1,500	EAR99	<a href="#">PE15A4053</a>	\$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	<a href="#">PE15A5033</a>	\$14,518.19	\$13,647.10	\$12,921.19	\$12,340.46	27	
High Power, Class AB, Power with Fan							30/8,733	EAR99	<a href="#">PE15A5033F</a>	\$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	<a href="#">PE15A5017</a>	\$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	<a href="#">PE15A5034F</a>	\$2,394.93	\$2,251.23	\$2,131.49	\$2,035.69	30	
Power, Class AB			13/800	EAR99	<a href="#">PE15A5034</a>	\$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	<a href="#">PE15A4026</a>	\$504.18	\$473.93	\$448.72	\$428.55	32	
	1 - 2	35	0.75	1.5	33		12/800	EAR99	<a href="#">PE15A4025</a>	\$1,152.31	\$1,083.17	\$1,025.56	\$979.46	33	
High Power	1 - 3	50	1.25	10	36	47	12/800	EAR99	<a href="#">PE15A4016</a>	\$1,485.82	\$1,396.67	\$1,322.38	\$1,262.95	34	
							45/4,000	EAR99	<a href="#">PE15A5026</a>	\$18,367.34	\$17,265.30	\$16,346.93	\$15,612.24	35	
Power	1.2 - 1.4	46	0.5	2		28	12/400	EAR99	<a href="#">PE15A4010</a>	\$1,655.81	\$1,556.46	\$1,473.67	\$1,407.44	36	
	2 - 4.4	32		10	36	37	8/150	EAR99	<a href="#">PE15A4011</a>	\$2,130.62	\$2,002.78	\$1,896.25	\$1,811.03	37	
High Power	2 - 6	50	1.25	7		44	28/3,000	EAR99	<a href="#">PE15A5024</a>	\$15,110.08	\$14,203.48	\$13,447.97	\$12,843.57	38	
							28/6,000	EAR99	<a href="#">PE15A5025</a>	\$18,958.61	\$17,821.09	\$16,873.16	\$16,114.82	39	
High Rel	2 - 8	38	2.5	5.5	30		12/1,200	EAR99	<a href="#">PE15A4054</a>	\$5,574.70	\$5,240.22	\$4,961.48	\$4,738.50	40	
	2 - 12	35	4		33		15/4,500	EAR99	<a href="#">PE15A4055</a>	\$12,935.70	\$12,159.56	\$11,512.77	\$10,995.35	41	
Power	2 - 18	30	4		33		12/2,500	EAR99	<a href="#">PE15A4056</a>	\$11,722.50	\$11,019.15	\$10,433.03	\$9,964.13	42	
							12/5,000	EAR99	<a href="#">PE15A4057</a>	\$13,537.08	\$12,724.86	\$12,048.00	\$11,506.52	43	
High Rel	2 - 20		5.5		31		12/4,500	EAR99	<a href="#">PE15A4058</a>	\$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	<a href="#">PE15A5022</a>	\$13,791.18	\$12,963.71	\$12,274.15	\$11,722.50	45	
	3.1 - 3.5	45					40	15/5,000	EAR99	<a href="#">PE15A5002</a>	\$3,025.04	\$2,843.54	\$2,692.29	\$2,571.28	46
Power	3.5 - 7	26	2	11	36	37	8/1,600	EAR99	<a href="#">PE15A4012</a>	\$1,976.14	\$1,857.57	\$1,758.76	\$1,679.72	47	
	6 - 12	47	2.5	6.5	30.5		12/1,500	EAR99	<a href="#">PE15A4060</a>	\$4,869.61	\$4,577.43	\$4,333.95	\$4,139.17	48	
High Rel	6 - 18	30	3.5	7	27		12/800	EAR99	<a href="#">PE15A4061</a>	\$5,387.14	\$5,063.91	\$4,794.55	\$4,579.07	49	
		35		33				12/2,500	EAR99	<a href="#">PE15A5048</a>	\$10,821.91	\$10,172.60	\$9,631.50	\$9,198.62	50
		38		10	30			12/1,800	EAR99	<a href="#">PE15A4062</a>	\$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	<a href="#">PE15A5016</a>	\$9,226.05	\$8,672.49	\$8,211.18	\$7,842.14	52	
	7.2 - 7.5						41.76	33/2,300	EAR99	<a href="#">PE15A5019</a>	\$9,194.12	\$8,642.47	\$8,182.77	\$7,815.00	53
Power	7.5 - 11					33	7/1,000	EAR99	<a href="#">PE15A4013</a>	\$1,912.39	\$1,797.65	\$1,702.03	\$1,625.53	54	
High Power	8 - 11	25	3			31	6/200	EAR99	<a href="#">PE15A4014</a>	\$1,976.32	\$1,857.74	\$1,758.92	\$1,679.87	55	
High Power		28				32	36	6/200	EAR99	<a href="#">PE15A4015</a>	\$1,975.37	\$1,856.85	\$1,758.08	\$1,679.06	56
High Rel	8 - 12	30	2			33	12/2,500	EAR99	<a href="#">PE15A5051</a>	\$6,698.57	\$6,296.66	\$5,961.73	\$5,693.78	57	
Power		41	1	3.5	30	31	12/1,200	EAR99	<a href="#">PE15A4008</a>	\$3,026.32	\$2,844.74	\$2,693.42	\$2,572.37	58	
High Rel	8 - 12.4		1.75	6	27		12/800	EAR99	<a href="#">PE15A4063</a>	\$4,091.60	\$3,846.10	\$3,641.52	\$3,477.86	59	
Power	8.5 - 11	30	0.5	3	30		15/900	EAR99	<a href="#">PE15A4006</a>	\$2,682.42	\$2,521.47	\$2,387.35	\$2,280.06	60	
			0.75	5	36	12/4,500	EAR99	<a href="#">PE15A4007</a>	\$3,679.71	\$3,458.93	\$3,274.94	\$3,127.75	61		
			0.5		34.8	15/1,500	EAR99	<a href="#">PE15A5021</a>	\$7,815.00	\$7,346.10	\$6,955.35	\$6,642.75	62		
High Rel	14.4 - 15.4	28	2.5	7	27		12/1,150	EAR99	<a href="#">PE15A4064</a>	\$9,510.00	\$8,939.40	\$8,463.90	\$8,083.50	63	
Power		33	1.25	5	31		12/1,800	EAR99	<a href="#">PE15A4021</a>	\$3,407.16	\$3,202.73	\$3,032.37	\$2,896.09	64	
High Rel	18 - 26.5	35	3		33		12/3,500	EAR99	<a href="#">PE15A5054</a>	\$11,590.03	\$10,894.63	\$10,315.13	\$9,851.53	65	

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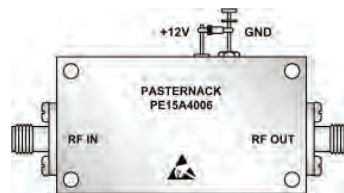


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# POWER AMPLIFIERS (<4W)



Amplifiers

Amplifier Type	Frequency Band (GHz.)	Gain (dB)	Gain Var. $\pm$ (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	12/1,000	EAR99	<a href="#">PE15A4065</a>	\$10,690.92	\$10,049.46	\$9,514.92	\$9,087.28	66	
Power	26.5 - 40		3	4.5	20	12/270	EAR99	<a href="#">PE15A4050</a>	\$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	<a href="#">PE15A4067</a>	\$12,632.25	\$11,874.32	\$11,242.70	\$10,737.41	68	
			2	20	12/350	EAR99	<a href="#">PE15A4069</a>	\$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. $\pm$ (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	EAR99	<a href="#">PE15A5028</a>	\$3,672.22	\$3,451.89	\$3,268.28	\$3,121.39	70	
						28/5,500	EAR99	<a href="#">PE15A5028F</a>	\$4,562.63	\$4,288.87	\$4,060.74	\$3,878.24	71	
						28/2,000	EAR99	<a href="#">PE15A5029</a>	\$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	40	39	28/2,000	EAR99	<a href="#">PE15A5029F</a>	\$2,539.30	\$2,386.94	\$2,259.98	\$2,158.41	73		
High Power, Class AB	20 MHz - 1	46			28/5,200	EAR99	<a href="#">PE15A5031</a>	\$3,761.62	\$3,535.92	\$3,347.84	\$3,197.38	74		
High Power, Class AB, Power with Fan			500 MHz - 2.8	37	44	28/5,800	EAR99	<a href="#">PE15A5031F</a>	\$4,478.41	\$4,209.71	\$3,985.78	\$3,806.65	75	
High Power, Class AB	500 MHz - 3	48				2	37	12/1,800	EAR99	<a href="#">PE15A5013</a>	\$4,336.56	\$4,076.37	\$3,859.54	\$3,686.08
High Power, Class AB, Power with Fan			700 MHz - 2.2	30	10			38	36/8,333	EAR99	<a href="#">PE15A5032</a>	\$14,116.42	\$13,269.43	\$12,563.61
High Power	800 MHz - 960 MHz	37				3	44		36/8,333	EAR99	<a href="#">PE15A5032F</a>	\$14,626.67	\$13,749.07	\$13,017.74
			800 MHz - 1	50	0.5			47	12/15,000	EAR99	<a href="#">PE15A5010</a>	\$6,129.41	\$5,761.65	\$5,455.17
High Power, Class AB	800 MHz - 2	41	1.5	40	40.8	13/5,000	EAR99	<a href="#">PE15A5035</a>	\$4,585.85	\$4,310.70	\$4,081.41	\$3,897.97	83	
						13/5,500	EAR99	<a href="#">PE15A5035F</a>	\$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	<a href="#">PE15A5020</a>	\$4,722.11	\$4,438.78	\$4,202.68	\$4,013.79	85		
High Power	860 MHz - 960 MHz	42	1	3.5	44	12/2,800	EAR99	<a href="#">PE15A5042</a>	\$2,847.79	\$2,676.92	\$2,534.53	\$2,420.62	86	
						12/6,500	EAR99	<a href="#">PE15A5039</a>	\$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	<a href="#">PE15A5036F</a>	\$5,207.92	\$4,895.44	\$4,635.05	\$4,426.73	88	
High Power, Class AB						1 - 3	44	37.8	39	13/5,000	EAR99	<a href="#">PE15A5036</a>	\$4,122.16	\$3,874.83
High Power, Class AB, Power with Fan	1.2 - 1.4	40	0.3	40	12/4,000					EAR99	<a href="#">PE15A5001</a>	\$5,157.90	\$4,848.43	\$4,590.53
						1.5 - 3.5	20	1.25	10			38.5	39	13/4,000
High Power	1.2 - 1.4	40	0.3	40	12/4,000	EAR99	<a href="#">PE15A5001</a>	\$3,980.30	\$3,741.48	\$3,542.47	\$3,383.26	92		
								1.5 - 3.5	20	1.25	10	38.5	39	12/4,000

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# HIGH POWER AMPLIFIERS (>4W)



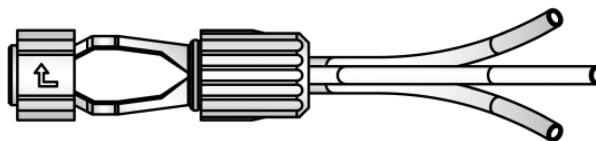
Amplifier Type	Frequency Band (GHz.)	Gain (dB)	Gain Var. ±(dB)	NF (dB)	P1dB (dBm)	Psat (dBm)	DC Power (V/mA)	ECCN	Model No	1	2-4	5-9	10+	ROW	
High Power	1.7 - 2	50	0.5		43		12/6,000	EAR99	<a href="#">PE15A5014</a>	\$4,290.60	\$4,033.16	\$3,818.63	\$3,647.01	94	
	1.7 - 2.5	11			37		12/800	EAR99	<a href="#">PE15A5015</a>	\$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	<a href="#">PE15A5038</a>	\$5,543.44	\$5,210.83	\$4,933.66	\$4,711.92	96	
							13/5,500	EAR99	<a href="#">PE15A5038F</a>	\$6,038.39	\$5,676.09	\$5,374.17	\$5,132.63	97	
High Rel	2 - 6	40	3.5		37		12/7,000	EAR99	<a href="#">PE15A5047</a>	\$11,298.27	\$10,620.37	\$10,055.46	\$9,603.53	98	
High Power	2.3 - 2.7	55	0.5	8	41.5		12/5,500	EAR99	<a href="#">PE15A5018</a>	\$5,001.60	\$4,701.50	\$4,451.42	\$4,251.36	99	
	2.5 - 4	19			38	38.5	13/400	EAR99	<a href="#">PE15A5006</a>	\$1,607.67	\$1,511.21	\$1,430.83	\$1,366.52	1	
	2.6 - 4.2	1			9	39	39	16/380	EAR99	<a href="#">PE15A5007</a>	\$1,607.67	\$1,511.21	\$1,430.83	\$1,366.52	2
	3.1 - 3.5	8			0.5	37		12/750	EAR99	<a href="#">PE15A5023</a>	\$2,896.15	\$2,722.38	\$2,577.57	\$2,461.73	3
		47			1.5	3.5	43		12/9,000	EAR99	<a href="#">PE15A5003</a>	\$3,980.30	\$3,741.48	\$3,542.47	\$3,383.26
	3.5 - 7	19			2	12		16/375	EAR99	<a href="#">PE15A5008</a>	\$1,912.39	\$1,797.65	\$1,702.03	\$1,625.53	5
	5.5 - 9.5	24			2	8.5	37	38	8/2,600	EAR99	<a href="#">PE15A5009</a>	\$2,153.44	\$2,024.23	\$1,916.56	\$1,830.42
High Rel	6 - 18	40	5		40		12/1,300	EAR99	<a href="#">PE15A5050</a>	\$20,395.29	\$19,171.57	\$18,151.81	\$17,336.00	7	
		41			37	12/7,500	EAR99	<a href="#">PE15A5049</a>	\$17,182.03	\$16,151.11	\$15,292.01	\$14,604.73	8		
	30	2.5			40		12/14,000	EAR99	<a href="#">PE15A5053</a>	\$17,036.70	\$16,014.50	\$15,162.66	\$14,481.20	9	
	40	2			37		12/6,000	EAR99	<a href="#">PE15A5052</a>	\$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	<a href="#">PE15A5044</a>	\$4,445.88	\$4,179.13	\$3,956.83	\$3,779.00	11	
	8.5 - 11	30	0.75				12/7,500	EAR99	<a href="#">PE15A5043</a>	\$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	<a href="#">PE15A4020</a>	\$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. ±(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	<a href="#">PE15A7000</a>	\$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
<a href="#">PE15A5990</a>	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

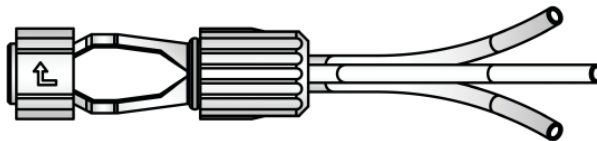


Technical Support (866) 727-8376



Same-Day Shipping, Even Custom Cable Assemblies

# AMPLIFIER ACCESSORIES



Antennas

Model No	Description	1	2-4	5-9	10+	R O W
<a href="#">PE15C5011F</a>	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
<a href="#">PE15C5013</a>	Heat Sink for Most RF Power Amplifier PE15A5000 Series	\$434.18	\$408.13	\$386.42	\$369.05	17
<a href="#">PE15C5013F</a>	Heat Sink with 12V Fan for Most RF Power Amplifier PE15A5000 Series	\$1,174.28	\$1,103.82	\$1,045.11	\$998.14	18
<a href="#">PE15C5022</a>	Heat Sink for Rf Power Amplifier PE15A5022	\$583.52	\$548.51	\$519.33	\$495.99	19
<a href="#">PE15C5022F</a>	Heat Sink with 24V Fan for RF Power Amplifier PE15A5022	\$937.80	\$881.53	\$834.64	\$797.13	20
<a href="#">PE15J5011</a>	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
<a href="#">PE15J5015</a>	Power and Control Cable for RF Amplifier PE15A5015, PE15A5023	\$125.04	\$120.04	\$115.04	\$110.04	22
<a href="#">PE15K5000</a>	Power and Control Cable for RF Amplifier PE15B5000 and PE15B5001	\$139.63	\$134.04	\$128.46	\$122.87	23
<a href="#">PE15K5002</a>	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](http://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

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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](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](http://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](mailto: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](http://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](mailto: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](http://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](http://www.Pasternack.com)  
or Email: [sales@pasternack.com](mailto: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](http://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

Products purchased or received under these Terms and Conditions are subject to export control and economic sanctions laws, restrictions, regulations and orders of the United States. Customer agrees to comply with all applicable export control laws, restrictions and regulations of the United States and shall not export, or transfer for the purpose of re-export, any product to any embargoed country or region, including but not limited to Cuba, the Crimean Region of Ukraine, Iran, North Korea, Sudan, and Syria, or to any denied, blocked, or designated person or entity as mentioned in any such United States or foreign law or regulation. Customer represents and warrants that it is not on the Denied Persons, Specially Designated Nationals or Debarred Persons List (as identified by the U.S. Treasury Office of Foreign Asset Control (OFAC) and by the U.S. Department of Commerce, Bureau of Industry and Security (BIS), or any other United States list of prohibited persons; is not owned or controlled by any person that is on one of those lists, or is otherwise prohibited by United States or other law from purchasing the products or services hereunder. Customer shall be solely responsible to obtain any license to export, re-export or import as may be required. Customer also agrees that it will not use these products in connection with the proliferation of weapons of mass destruction, including missiles, nuclear, chemical or biological weapons.

## 11. GENERAL

The Terms and Conditions may not be modified or cancelled without Pasternack's written agreement. Accordingly, goods furnished and services rendered by Pasternack are sold only on the terms and conditions stated herein. The Terms and Conditions will be governed by and construed in accordance with the laws of the State of California and the applicable laws of the United States of America. If Customer chooses to access the Pasternack website from outside the United States, Customer does so on their own initiative and is responsible for compliance with all applicable local laws.

## 12. INTELLECTUAL PROPERTY

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# 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 $\mu$ 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 $\mu$ 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 $\mu$ W
-61	0.2	
-62	0.18	
-63	0.16	
-64	0.141	
dBm	$\mu$ 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	$\mu$ 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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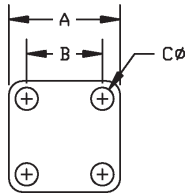


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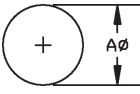
# RETURN LOSS CONVERSION TABLE

Return Loss (dBm)	VSWR	Return Loss (dBm)	VSWR	Return Loss (dBm)	VSWR	Return Loss (dBm)	VSWR	Return Loss (dBm)	VSWR
46.064	1.01	13.842	1.51	9.485	2.01	7.327	2.51	5.999	3.01
40.086	1.02	13.708	1.52	9.428	2.02	7.294	2.52	5.970	3.02
36.607	1.03	13.577	1.53	9.372	2.03	7.262	2.53	5.956	3.03
34.151	1.04	13.449	1.54	9.317	2.04	7.230	2.54	5.935	3.04
32.256	1.05	13.324	1.55	9.262	2.05	7.198	2.55	5.914	3.05
30.714	1.06	13.201	1.56	9.208	2.06	7.167	2.56	5.893	3.06
29.417	1.07	13.081	1.57	9.155	2.07	7.135	2.57	5.872	3.07
28.299	1.08	12.964	1.58	9.103	2.08	7.105	2.58	5.852	3.08
27.318	1.09	12.849	1.59	9.051	2.09	7.074	2.59	5.832	3.09
26.444	1.10	12.736	1.60	8.999	2.10	7.044	2.60	5.811	3.10
25.658	1.11	12.625	1.61	8.949	2.11	7.014	2.61	5.791	3.11
24.943	1.12	12.518	1.62	8.899	2.12	6.984	2.62	5.771	3.12
24.289	1.13	12.412	1.63	8.849	2.13	6.954	2.63	5.751	3.13
23.686	1.14	12.308	1.64	8.800	2.14	6.925	2.64	5.732	3.14
23.127	1.15	12.207	1.65	8.752	2.15	6.896	2.65	5.712	3.15
22.607	1.16	12.107	1.66	8.705	2.16	6.867	2.66	5.693	3.16
22.120	1.17	12.009	1.67	8.657	2.17	6.839	2.67	5.674	3.17
21.664	1.18	11.913	1.68	8.611	2.18	6.811	2.68	5.654	3.18
21.234	1.19	11.818	1.69	8.565	2.19	6.783	2.69	5.635	3.19
20.828	1.20	11.725	1.70	8.519	2.20	6.755	2.70	5.617	3.20
20.443	1.21	11.634	1.71	8.474	2.21	6.728	2.71	5.598	3.21
20.079	1.22	11.545	1.72	8.430	2.22	6.700	2.72	5.579	3.22
19.732	1.23	11.457	1.73	8.386	2.23	6.673	2.73	5.561	3.23
19.401	1.24	11.370	1.74	8.342	2.24	6.646	2.74	5.542	3.24
19.085	1.25	11.285	1.75	8.299	2.25	6.620	2.75	5.524	3.25
18.783	1.26	11.202	1.76	8.257	2.26	6.594	2.76	5.506	3.26
18.493	1.27	11.120	1.77	8.215	2.27	6.567	2.77	5.488	3.27
18.216	1.28	11.039	1.78	8.173	2.28	6.541	2.78	5.470	3.28
17.949	1.29	10.960	1.79	8.138	2.29	6.516	2.79	5.452	3.29
17.690	1.30	10.881	1.80	8.091	2.30	6.490	2.80	5.435	3.30
17.445	1.31	10.804	1.81	8.051	2.31	6.465	2.81	5.417	3.31
17.207	1.32	10.729	1.82	8.011	2.32	6.440	2.82	5.400	3.32
16.977	1.33	10.654	1.83	7.972	2.33	6.415	2.83	5.383	3.33
16.755	1.34	10.581	1.84	7.933	2.34	6.390	2.84	5.365	3.34
16.540	1.35	10.509	1.85	7.894	2.35	6.366	2.85	5.348	3.35
16.332	1.36	10.437	1.86	7.856	2.36	6.341	2.86	5.331	3.36
16.131	1.37	10.367	1.87	7.818	2.37	6.317	2.87	5.315	3.37
15.936	1.38	10.298	1.88	7.781	2.38	6.293	2.88	5.298	3.38
15.747	1.39	10.230	1.89	7.744	2.39	6.270	2.89	5.281	3.39
15.563	1.40	10.163	1.90	7.707	2.40	6.246	2.90	5.265	3.40
15.385	1.41	10.097	1.91	7.671	2.41	6.223	2.91	5.248	3.41
15.211	1.42	10.032	1.92	7.635	2.42	6.200	2.92	5.232	3.42
15.043	1.43	9.968	1.93	7.599	2.43	6.177	2.93	5.216	3.43
14.879	1.44	9.904	1.94	7.564	2.44	6.154	2.94	5.200	3.44
14.719	1.45	9.842	1.95	7.529	2.45	6.131	2.95	5.184	3.45
14.564	1.46	9.780	1.96	7.494	2.46	6.109	2.96	5.168	3.46
14.412	1.47	9.720	1.97	7.460	2.47	6.086	2.97	5.152	3.47
14.264	1.48	9.660	1.98	7.426	2.48	6.064	2.98	5.137	3.48
14.120	1.49	9.601	1.99	7.393	2.49	6.042	2.99	5.121	3.49
13.979	1.50	9.542	2.00	7.360	2.50	6.021	3.00	5.105	3.50

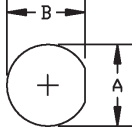
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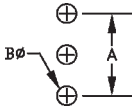
CODE	A	B	C
A01	.500	.340	.102
A02	.687	.500	.109
A03	.687	.500	#3-56 TAP
A04	.687	.500	.125
A05	1.000	.718	.125
A06	.750	.531	.140
A07	.750	.531	.125
A08	1.190	.906	.125
A09	.687	.500	#4-40 TAP
A10	.687	.500	.136
A11	1.250	.975	.147
A12	2.000	1.440	.257
A13	1.000	.718	.141
A14	1.000	.718	.144
A15	.687	.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



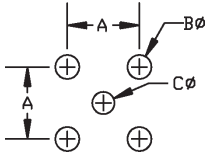
CODE	A
F01	.250
F02	.500
F03	.630
F04	1.200
F05	.380
F06	.450
F07	.200
F08	.362
F09	.220
F10	.317
F11	4.83mm
F12	.390



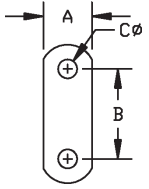
CODE	A	B
B01	.195	.177
B02	.250	.235
B03	.330	.295
B04	.380	.350
B05	.440	.410
B06	.512	.480
B07	.760	.720
B08	.565	.537
B09	.314	.296
B10	.140	.126
B11	.695	.655
B12	.625	.575
B13	.405	.361
B14	.277	.252
B15	.630	.596
B16	.317	.285
B17	.284	.268



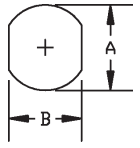
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J01	.200	.046



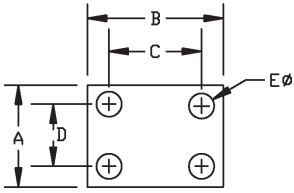
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D01	.200	.067	.062
D02	.200	.067	.046
D03	.100	.031	.031
D04	.200	.052	.052
D05	.260	.067	.043
D06	.200	.052	.047
D07	.200	.055	.043
D08	.200	.067	.035
D09	.200	.055	.028
D10	.200	.055	.035
D11	.320	.091	.031
D12	.400	.062	.062
D13	.320	.091	.091
D14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



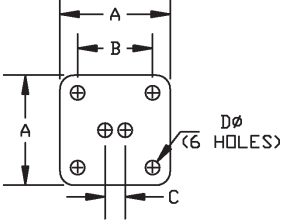
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C01	.223	.481	.102
C02	.260	.481	.102
C03	.192	.328	.067
C04	.640	1.000	.125
C05	.275	.481	.102
C06	.230	.354	.067
C07	.188	.328	.093



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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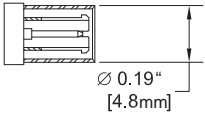
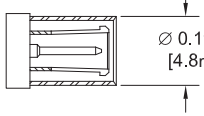
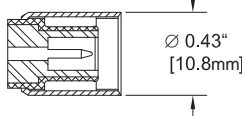
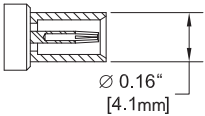
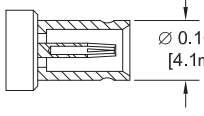
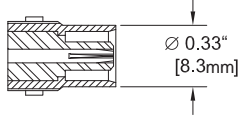
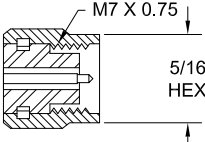
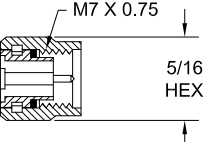
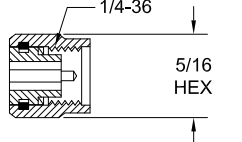
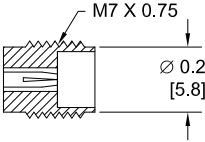
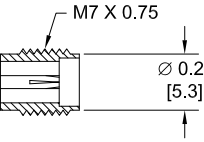
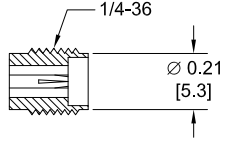
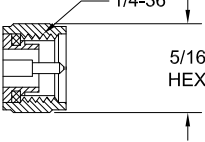
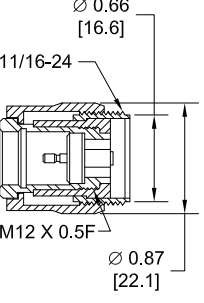
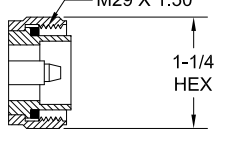
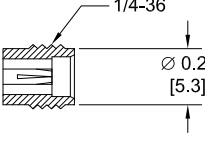
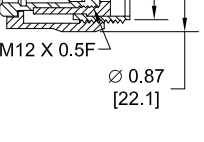
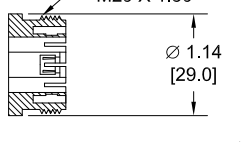
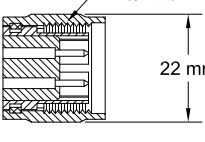
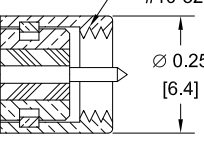
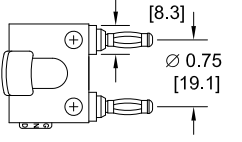
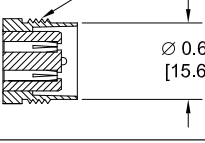
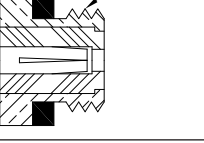
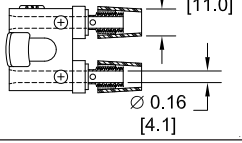
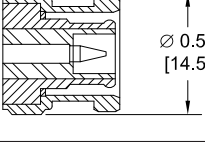
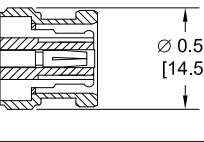
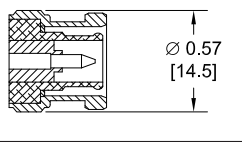
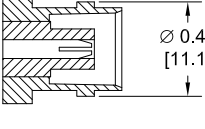
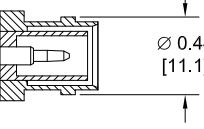
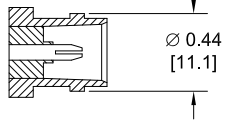
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# CONNECTOR IDENTIFIER

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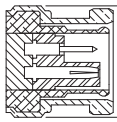
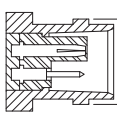
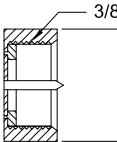
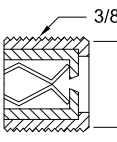
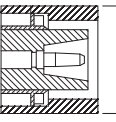
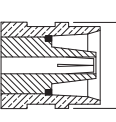
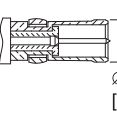
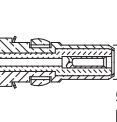
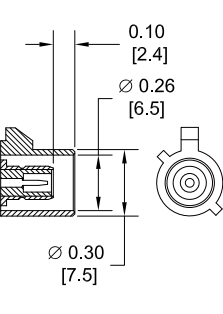
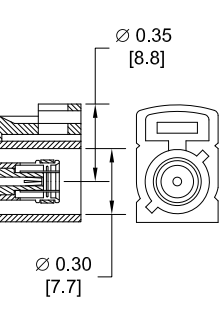
















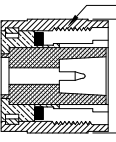
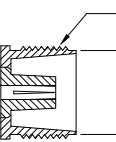
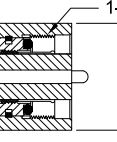
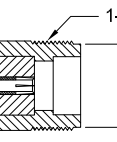
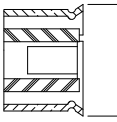
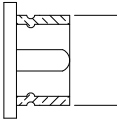
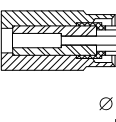
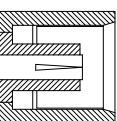
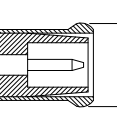
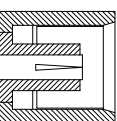
<b>1.0/2.3 SLIDE ON</b>	<b>PLUG</b>		<b>1.0/2.3 SNAP ON</b>	<b>PLUG</b>		<b>1.6/56</b>	<b>PLUG</b>	
	<b>JACK</b>			<b>JACK</b>			<b>JACK</b>	
<b>1.85 mm**</b>	<b>MALE</b>		<b>2.4 mm**</b>	<b>MALE</b>		<b>2.92 mm*</b>	<b>MALE</b>	
	<b>FEMALE</b>			<b>FEMALE</b>			<b>FEMALE</b>	
<b>3.5 mm*</b>	<b>MALE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

\*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

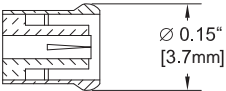
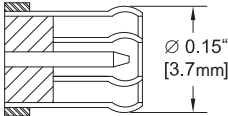
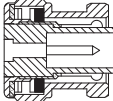
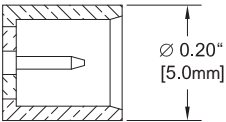
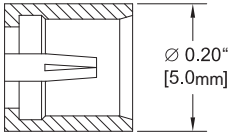
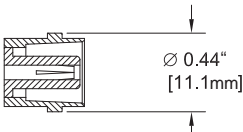
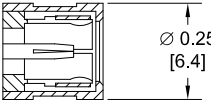
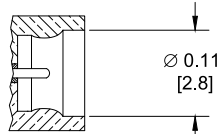
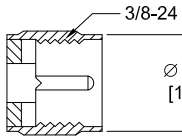
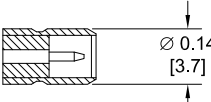
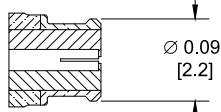
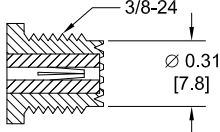
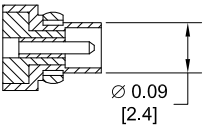
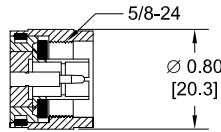
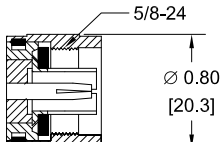
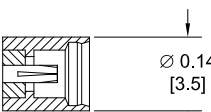
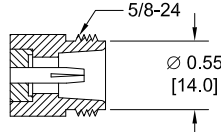
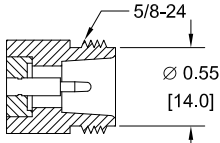
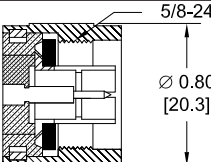
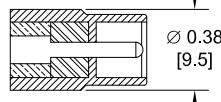
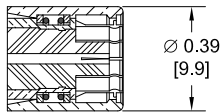
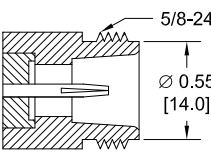
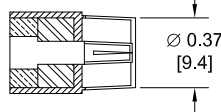
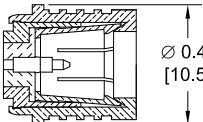
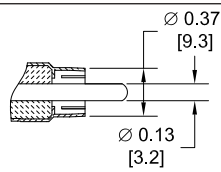
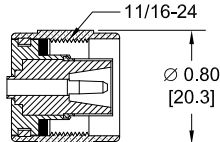
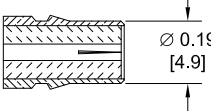
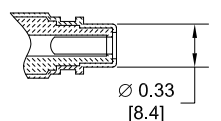
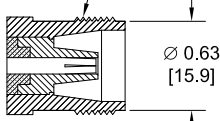
<b>BNC TWINAX</b>	<b>PLUG</b>	 Ø 0.57" [14.5mm]				
	<b>JACK</b>	 Ø 0.44" [11.1mm]				
<b>F</b>	<b>MALE</b>	 3/8-32 7/16 HEX				
	<b>FEMALE</b>	 3/8-32 Ø 0.34 [8.5]				
<b>C</b>	<b>MALE</b>	 Ø 0.75" [19.1mm]				
	<b>FEMALE</b>	 Ø 0.60" [15.2mm]				
<b>D SUBMINIATURE</b>	<b>PLUG</b>	 Ø 0.19" [4.8mm]	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





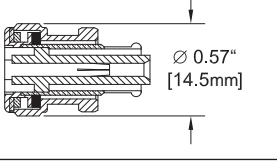
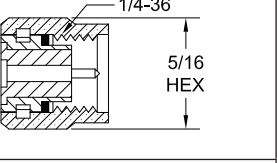
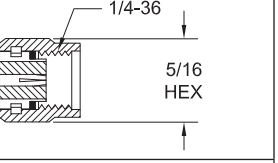
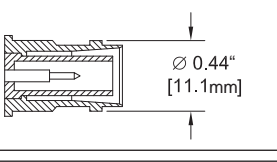
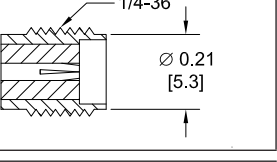
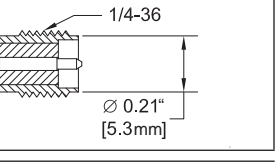
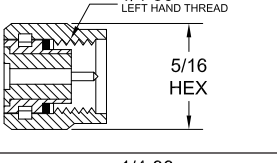
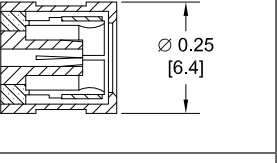
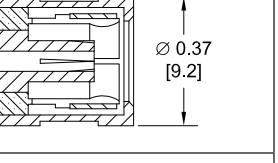
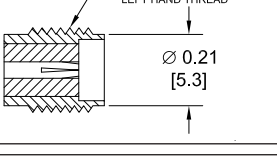
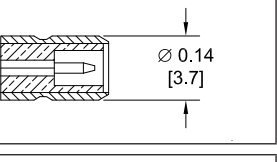
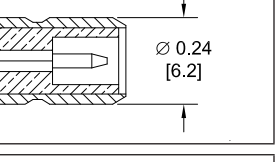
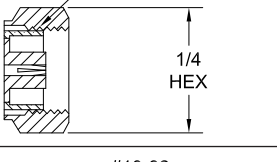
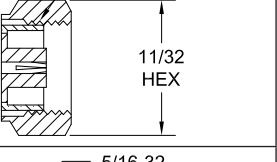
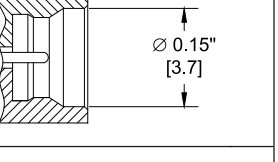
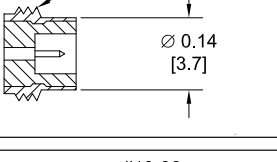
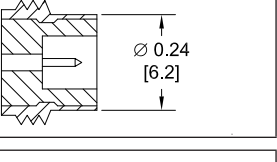
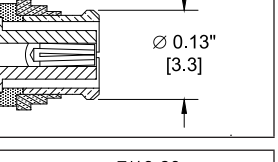
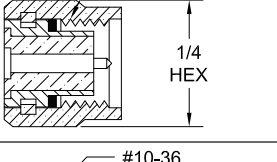
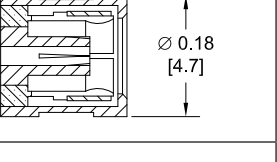
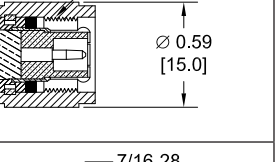
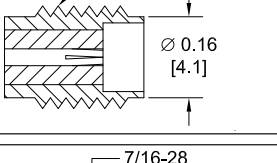
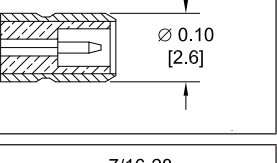
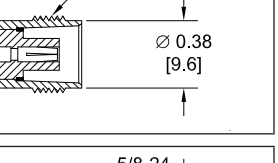
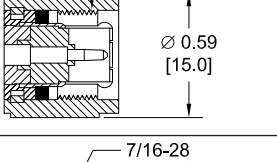
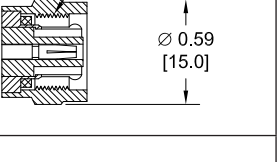
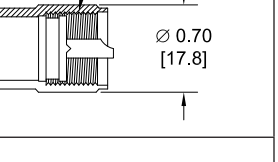
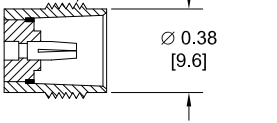
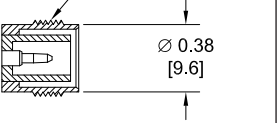
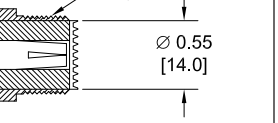
# CONNECTOR IDENTIFIER

SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY

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

# CONNECTOR IDENTIFIER

SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY

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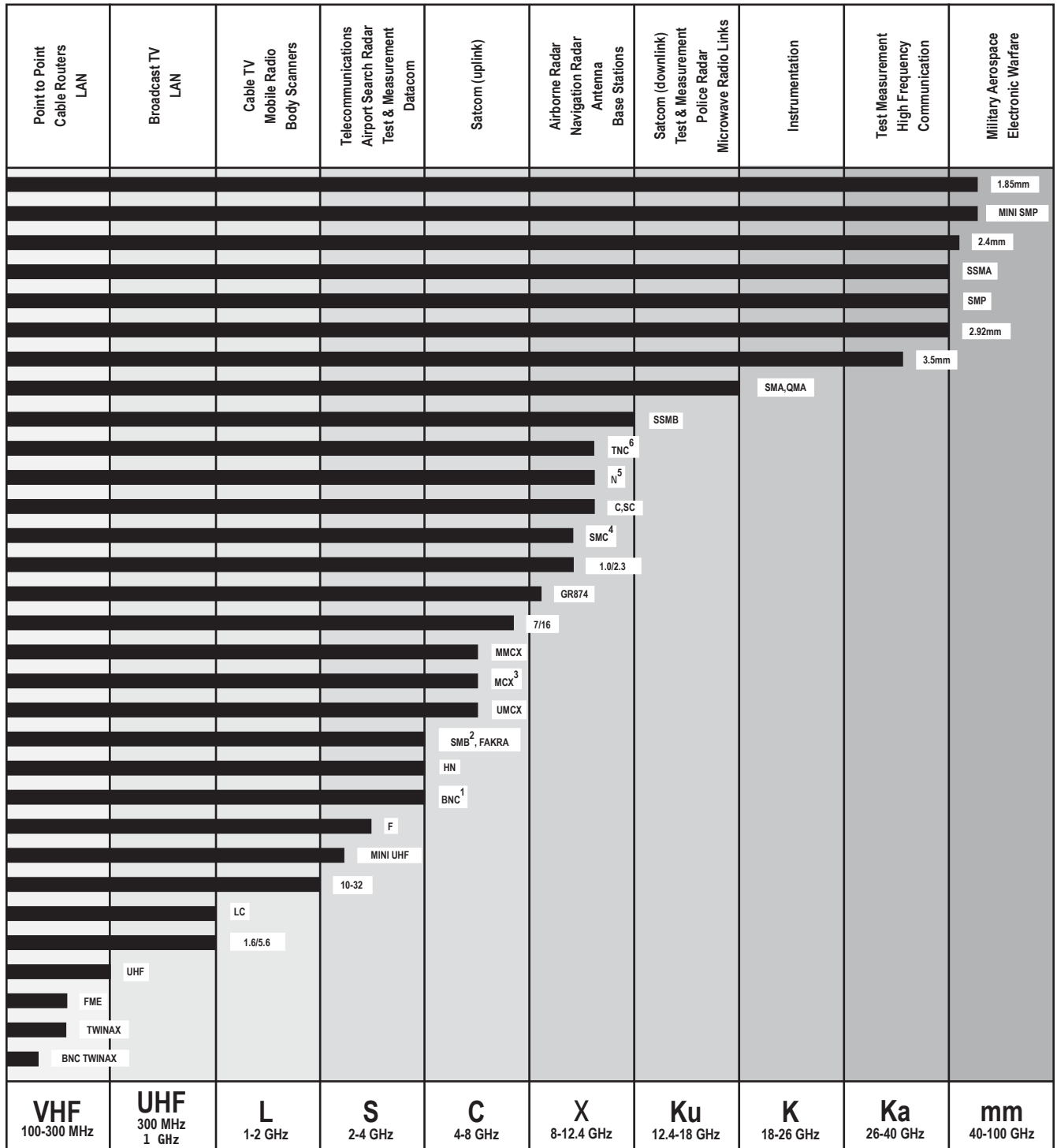


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# CONNECTOR FREQUENCY RANGE CHART



**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



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