



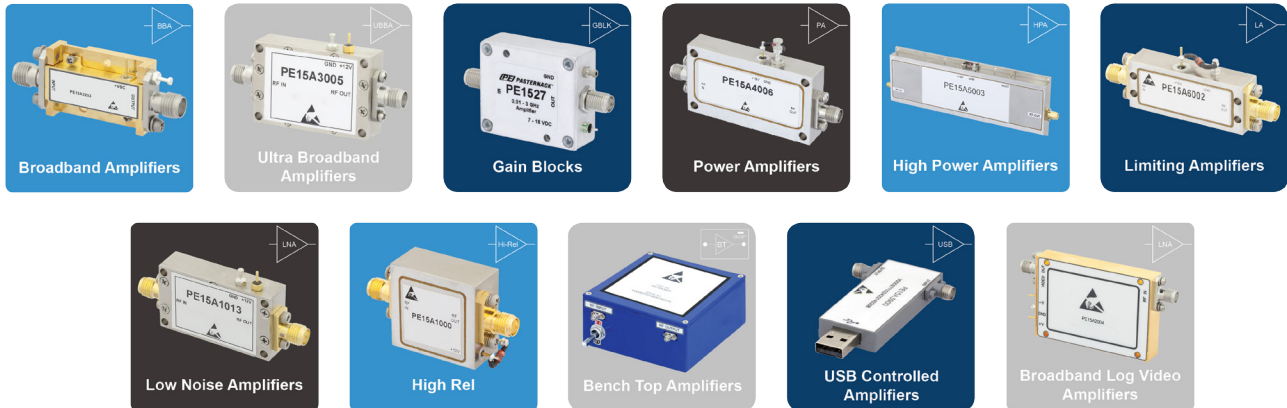
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Pasternack offers the industry's largest selection of ready-to-ship connectorized RF amplifiers with over 150 unique models ranging from DC to 40 GHz. Our portfolio includes high power, high-rel, broadband, limiting, power, low noise (LNA), log video, USB-controlled, millimeter wave, bi-directional and gain block amplifiers which are all in in-stock. These designs utilize the latest GaN and GaAs PHEMT semiconductor technology and are qualified for applications and industries related to military communications, radar, SATCOM, point-to-point radio links, telecom, test & measurement and many others.

All amplifiers can be viewed online at www.pasternack.com along with detailed datasheets, CAD drawings and real-time pricing and inventory. Applications engineers are available to answer any of your technical questions and can assist with selecting the right product for your specific application.

Broadband Amplifiers

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PE P/N	Amplifier Type	*Frequency Band (GHz)*	Gain (dB)	*Gain Variation* +/- (dB)	P1dB (dBm)	P1dB (Watts)	Psat (dBm)	NF (dB)	IP3 (dBm)	DC Power (Volts/mA)	*Mechanical Dimensions* L(in) X W(in) X H(in)	*Connector Type*	ECCN
PE15A3004	Broadband	DC-6	13	0.5	27.5	0.6	31.5	6.5		12/300	1.0 x 1.55 x 0.48	SMA	EAR99
PE15A3001	Broadband	DC-10	13	1	27.5	0.6	30.5	6.5		12/300	1.0 x 1.55 x 0.48	SMA	EAR99
PE15A4017	Broadband	0.020 - 3.0	27	0.75	30	1			39	12/220	2.28 x 2.4 x 1.45	SMA	EAR99
PE15A4018	Broadband	0.030 - 3.0	38	1	30	1			39	12/270	2.28 x 2.4 x 1.45	SMA	EAR99
PE15A3254	Broadband	0.03 - 20	15	2.5	20	0.10		3.0	31	12/180	1.1 x 0.71 x 0.3	SMA	EAR99
PE15A4009	Broadband	0.05 - 1	26	0.75	28	0.6		5	36	12/400	2.14 x 2.32 x 0.71	SMA	EAR99
PE15A3007	Broadband	0.10 - 12	18	1	25	0.3	28	3	33	12/300	1.2 x 1.0 x 0.4	SMA	EAR99
PE15A3255	Broadband, Low Noise	0.1 - 18	14	1.5	16	0.04	18	3	28	12/80	1.2 x 1.0 x 0.4	SMA	EAR99
PE15A3256	Broadband, Low Noise	0.1 - 18	28	2.5	16	0.04	18	3	28	12/160	1.5 x 1.0 x 0.4	SMA	EAR99
PE15A3021	Broadband	0.3 - 18	37	2	30.5	1.1		3.0	42	15/850	1.9 x 1.5 x 0.5	SMA	EAR99

Broadband Amplifiers

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Continued

PE P/N	Amplifier Type	*Frequency Band (GHz)*	Gain (dB)	*Gain Variation* +/- (dB)	P1dB (dBm)	P1dB (Watts)	Psat (dBm)	NF (dB)	IP3 (dBm)	DC Power (Volts/mA)	*Mechanical Dimensions* L(in) X W(in) X H(in)	*Connector Type*	ECCN
PE15A3014	Broadband	0.5 - 2	30	0.6	24	0.25		2.7	34	12/240	1.9 x 1.5 x 0.5	SMA	EAR99
PE15A3015	Broadband	0.5 - 2	46	0.8	24	0.25		2.7	34	12/300	1.38 x 0.9 x 0.5	SMA	EAR99
PE15A3005	Broadband	0.50 - 10	32	1	25	0.3		3	33	12/375	1.5 x 1.0 x 0.4	SMA	EAR99
PE15A3008	Broadband	0.50 - 18	27	2.3	23	0.2		2.5	35	12/330	1.5 x 1.2 x 0.4	SMA	EAR99
PE15A3263	Broadband, Low Noise	0.5 - 18	33	1.5	15	0.03		5		12/220	1.33 x 1.093 x 0.38	SMA	EAR99
PE15A3253	Broadband	0.5 - 20	14	1.8	14	0.03		3.0	31	15/75	1.1 x 0.71 x 0.3	SMA	EAR99
PE15A3264	Broadband, Low Noise	0.8 - 5.5	20	0.5	25	0.30	28		34	12/750	1.837 x 1.150 x 0.67	SMA	EAR99
PE15A3262	Broadband, Low Noise	1 - 18	30	1	20	0.10		3.7		12/240	1.6 x 1.0 x 0.378	SMA	EAR99
PE15A3503	Broadband, High Gain	2 - 6	44	1	30	1		5	39	12/1050	1.837 x 1.15 x 0.67	SMA	EAR99
PE15A3504	Broadband, High Gain	2 - 6	44	1	33	2		5	42	12/1750	2.36 x 1.93 x 0.67	SMA	EAR99
PE15A4003	Broadband	2 - 6	32	1	33	2		5	42	12/1700	2.36 x 1.93 x 0.67	SMA	EAR99
PE15A4005	Broadband	2 - 6	33	1	30	1		5	39	12/1000	1.837 x 1.15 x 0.67	SMA	EAR99
PE15A3016	Broadband	2 - 8	33	1.5	29.4	0.87				8.5/941	2.15 x 1.55 x 0.36	SMA	EAR99
PE15A3257	Broadband, Low Noise	2 - 18	26	2	14	0.025		3	24	12/140	1.5 x 0.85 x 0.375	SMA	EAR99
PE15A3258	Broadband, Low Noise	2 - 18	33	1.5	13	0.02		3	22	12/180	1.5 x 1.0 x 0.4	SMA	EAR99
PE15A3265	Broadband, Low Noise	2 - 18	33	1.5	13	0.02		3.5		12/180	1.333 x 1.093 x 0.38	SMA	EAR99
PE15A3009	Broadband	2 - 24	12	0.75	26	0.400		4.0	35	12/260	1.2 x 1.0 x 0.4	2.92mm	EAR99
PE15A3267	Broadband, Low Noise	2 - 26.5	15	2.0	15	0.03		5.5	23	15/200	0.9 x 1.05 x 0.38	SMA	EAR99
PE15A4001	Broadband	6 - 12	37	1.5	32	1.6		6	42	12/+2500	2.36 x 1.93 x 0.67	SMA	EAR99
PE15A4004	Broadband	6 - 12	38	1	29	0.8		5	39	12/1300	2.36 x 1.6 x 0.5	SMA	EAR99
PE15A3505	Broadband, High Gain	6 - 12	48	1	30	1		5	39	12/1350	2.36 x 1.55 x 0.5	SMA	EAR99
PE15A3506	Broadband, High Gain	6 - 12	47	1.5	33	2		6	42	12/+2500	2.36 x 1.93 x 0.67	SMA	EAR99
PE15A3017	Broadband	6 - 18	36	2	27	0.5		3.5		12/800	2.083 x 1.093 x 0.38	SMA	EAR99
PE15A3018	Broadband	6 - 18	30	1	28	0.6		3.5		12/1300	1.86 x 1.15 x 0.42	SMA	EAR99
PE15A3019	Broadband	6 - 18	30	1.5	30	1				12/1500	2.65 x 2.5 x 0.45	SMA	EAR99
PE15A3020	Broadband	6 - 18	42	2	27	0.5		5.4	37	12/900	2.083 x 1.093 x 0.38	SMA	EAR99
PE15A3259	Broadband, Low Noise	6 - 18	38	2	22	0.2		2.5	30	12/280	1.2 x 1.0 x 0.4	SMA	EAR99
PE15A4002	Broadband	12 - 18	33	3.5	30	1		6	39	12/+2000	2.36 x 1.6 x 0.5	SMA	EAR99
PE15A3507	Broadband, High Gain	12 - 18	43	3.5	30	1		6	39	12/+2000	2.36 x 1.6 x 0.5	SMA	EAR99
PE15A3260	Broadband, Low Noise	18 - 26.5	40	1	13	0.02		2	22	12/180	1.5 x 1.0 x 0.4	SMA	EAR99
PE15A3268	Broadband, Low Noise	18-40	21	2	10	0.01		5.5		15/250	1.0 x 1.75 x 0.41	2.4mm	EAR99
PE15A3261	Broadband, Low Noise	26.5 - 40	22	0.75	14	0.025		3.5	22	12/125	1.5 x 1.0 x 0.4	2.92mm	EAR99

USB Controlled Broadband Amplifiers



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PE	Amplifier Type	"Frequency Band (GHz)"	Gain (dB)	Isolation (dB)	P1dB (dBm)	Control	"Mechanical Dimensions" L(in) X W(in) X H(in)	"Connector Type"	ECCN
PE15A3900	Broadband USB	0.5-18.0	12	60	10	USB	2.25 x 1.00 x 0.33	USB	EAR99
PE15A3901	Broadband USB	0.5-40.0	12	60	10	USB	2.25 x 1.00 x 0.33	USB	EAR99

Low Noise Amplifiers



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PE P/N	Amplifier Type	"Frequency Band (GHz)"	Gain (dB)	"Gain Variation" +/- (dB)	P1dB (dBm)	P1dB (Watts)	Psat (dBm)	NF (dB)	IP3 (dBm)	DC Power (Volts/mA)	"Mechanical Dimensions" L(in) X W(in) X H(in)	"Connector Type"	ECCN
PE15A1007	Low Noise	9 kHz - 3	32	1.25	16	0.04		2.5		12/110	1.5 x 0.85 x 0.375	SMA	EAR99
PE15A1011	Low Noise	0.010 - 1	30	1	17	0.05		1		12/110	1.5 x 0.85 x 0.375	SMA	EAR99
PE15A1012	High Gain, Low Noise	0.010 - 1	40	1.25	18	0.06		0.8		12/110	1.5 x 0.85 x 0.375	SMA	EAR99
PE15A1013	High Gain, Low Noise	0.010 - 1	50	1.5	18	0.06		1		12/130	1.5 x 0.85 x 0.375	SMA	EAR99
PE15A1009	Low Noise	0.010 - 3	34	0.75	11	0.012		1.4		12/95	1.5 x 0.85 x 0.375	SMA	EAR99
PE15A1008	Low Noise	0.020 - 3	25	0.75	13	0.02		1.6		12/75	1.5 x 0.85 x 0.375	SMA	EAR99
PE15A3254	Low Noise	0.03 - 20	15	2.5	20	0.1		3		12/180	1.08 x 0.53 x 0.29	SMA	EAR99
PE15A1014	Low Noise	0.05 - 1	19		20	0.10	20	0.5	36	12/90	1.38 x 1.2 x 0.5	SMA	EAR99
PE15A3255	Broadband, Low Noise	0.1 - 18	14	1.5	16	0.04	18	3	28	12/80	1.2 x 1.0 x 0.4	SMA	EAR99
PE15A3256	Broadband, Low Noise	0.1 - 18	28	2.5	16	0.04	18	3	28	12/160	1.5 x 1.0 x 0.4	SMA	EAR99
PE15A1017	Low Noise	0.5 - 3	15	0.4	20	0.10		2.4	34	12/90	1.4 x 1.2 x 0.52	SMA	EAR99
PE15A1018	Low Noise	0.5 - 3	30	1	20	0.10		3.0	33	12/190	2.6 x 3.15 x 0.52	SMA	EAR99
PE15A3253	Low Noise	0.5 - 20	15	1.75	20	0.1		3		12/180	1.08 x 0.53 x 0.29	SMA	EAR99
PE15A1000	Low Noise	1 - 2	35		10	0.01	10	1.5		13/200	1.07 x 1.0 x 0.5	SMA	EAR99
PE15A1019	Low Noise	1 - 2	40	1	11	0.012		0.8	25	10/120	1.5 x 0.85 x 0.38	SMA	EAR99
PE15A1005	High Gain, Low Noise	1.2 - 1.4	40	0.75	15	0.03		1.5		13.2/250	1.083 x 1.168 x 0.382	SMA	EAR99
PE15A1001	Low Noise	2 - 4	38		13	0.02	13	2		13/250	1.583 x 1.093 x 0.382	SMA	EAR99
PE15A1010	High Gain, Low Noise	2 - 6	40	1	14	0.025		0.9		15/90	1.5 x 0.85 x 0.375	SMA	EAR99
PE15A3257	Broadband, Low Noise	2 - 18	26	2	14	0.025		3	24	12/140	1.5 x 0.85 x 0.375	SMA	EAR99
PE15A3258	Broadband, Low Noise	2 - 18	33	1.5	13	0.02		3	22	12/180	1.5 x 1.0 x 0.4	SMA	EAR99
PE15A1006	High Gain, Low Noise	3.1 - 3.5	40	0.3	15	0.03	15	1.1		15/170	1.837 x 1.15 x 0.67	SMA	EAR99
PE15A1002	Low Noise	4 - 8	38		13	0.02	13	2		13/250	1.583 x 1.093 x 0.382	SMA	EAR99
PE15A3259	Broadband, Low Noise	6 - 18	38	2	22	0.2		2.5	30	12/280	1.2 x 1.0 x 0.4	SMA	EAR99
PE15A1003	Low Noise	8 - 12	38		13	0.02	13	2.2		13/250	1.583 x 1.093 x 0.382	SMA	EAR99
PE15A1004	Low Noise	12 - 18	38		13	0.02	13	3		13/300	1.583 x 1.093 x 0.382	SMA	EAR99
PE15A3260	Broadband, Low Noise	18 - 26.5	40	1	13	0.02		2	22	12/180	1.5 x 1.0 x 0.4	SMA	EAR99

Limiting Amplifiers

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PE P/N	Amplifier Type	"Frequency Band (GHz)"	Gain (dB)	"Gain Variation" +/- (dB)	Input Power (dBm)	Psat (dBm)	NF (dB)	DC Power (Volts/mA)	"Mechanical Dimensions" L(in) X W(in) X H(in)	"Connector Type"	ECCN
PE15A6002	Limiting	1 - 2	60	2.5	-40 to +10	19	3	12/250	1.602 x 0.66 x 0.38	SMA	EAR99
PE15A6007	Limiting	2 - 6	80	3.0	-61 to +10	15	4	12/550	1.602 x 0.66 x 0.38	SMA	EAR99
PE15A6008	Limiting	2 - 8	40	2.0	-20 to +20	19	5	12/300	1.60 x 1.15 x 0.42	SMA	EAR99
PE15A6012	Limiting	6 - 18	40	2.0	-20 to +20	19	4	12/300	1.85 x 1.15 x 0.42	SMA	EAR99

Gain Blocks

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PE P/N	Amplifier Type	"Frequency Band (GHz)"	Gain (dB)	"Gain Variation" +/- (dB)	P1dB (dBm)	P1dB (Watts)	Psat (dBm)	NF (dB)	IP3 (dBm)	DC Power (Volts/mA)	"Mechanical Dimensions" L(in) X W(in) X H(in)	"Connector Type"	ECCN
PE1513	Gain Block	0.01 - 3.0	14		9	0.008				12/50	1.38 x 1.18 x 0.49	SMA	EAR99
PE1514	Gain Block	0.01 - 3.0	10		9	0.008				12/40	1.38 x 1.18 x 0.49	SMA	EAR99
PE1527	Gain Block	0.01 - 3.0	12		10	0.009				12/40	1.38 x 1.18 x 0.50	SMA	EAR99
PE15A8001	Gain Block	0.01 - 6.0	15	1	14	0.025	5	26		12/50	1.2 x 0.85 x 0.18	SMA	EAR99
PE1525	Gain Block	0.02 - 2.5	19		15	0.031				12/120	1.38 x 1.18 x 0.49	SMA	EAR99
PE1517	Gain Block	0.05 - 1.0	22	0.75	12	0.015				12/100	2.36 x 2.36 x 0.75	SMA	EAR99
PE1518	Gain Block	0.05 - 2.0	22	1	12	0.015				12/100	2.36 x 2.36 x 0.75	SMA	EAR99
PE15A8000	Gain Block	0.05 - 4.0	26	1	23	0.2	5	35		12/120	2.08 x 1.08 x 0.50	SMA	EAR99
PE1516	Gain Block	0.1 - 3.0	18		14	0.025				12/120	1.38 x 1.18 x 0.49	SMA	EAR99
PE1519	Gain Block	1 - 4	26	0.5	15	0.031				12/100	2.36 x 2.36 x 0.75	SMA	EAR99
PE1520	Gain Block	2 - 4	26	0.5	15	0.031				12/100	2.36 x 2.36 x 0.75	SMA	EAR99
PE1524	Gain Block	2 - 18	23	1	13	0.02				12/120	1.083 x 1.093 x 0.382	SMA	EAR99
PE1523	Gain Block	6 - 18	22	1	13	0.02				12/120	1.083 x 1.093 x 0.382	SMA	EAR99

Log Amplifiers

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PE P/N	Amplifier Type	"Frequency Band (GHz)"	Typical Recovery Time (ns)	Min TSS (dBm)	Log Linearity (± dB)	Log Range (dBm)	Rise Time (ns)	Log Slope (mV/dB)	Voltage (± Volts)	"Mechanical Dimensions" L(in) X W(in) X H(in)	"Connector Type"	ECCN
PE15A2000	Log	0.5 - 4	40	-73 typical	2.5	-70 to 0	10	25	15	3.2 x 1.8 x 0.4	SMA	EAR99
PE15A2003	Log	0.5 - 18	150	-65	1.75	-65 to +5	20	20	15	3.0 x 3.5 x 0.5	SMA	EAR99
PE15A2001	Log	2 - 6	60	-73 typical	1.75	-70 to +5	25	40	15	3.75 x 1.5 x 0.5	SMA	EAR99
PE15A2002	Log	6 - 18	70	-72	2.5 typical	-70 to 0	50	25	12	3.2 x 2.05 x 0.4	SMA	EAR99
PE15A2004	Log	6 - 18	150	-40	1	-40 to 0	20	50	15	2.2 x 1.5 x 0.4	SMA	EAR99

Power Amplifiers

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PE P/N	Amplifier Type	"Frequency Band (GHz)"	Gain (dB)	"Gain Variation" +/- (dB)	P1dB (dBm)	P1dB (Watts)	Psat (dBm)	NF (dB)	IP3 (dBm)	DC Power (Volts/mA)	"Mechanical Dimensions" L(in) X W(in) X H(in)	"Connector Type"	ECCN
PE15A4017	Power	0.02 - 3.0	27	0.75	30	1				12/800	2.08 x 1.08 x 0.50	SMA	EAR99
PE15A4019	Power	0.06 - 6.0	36	1.5	29	0.8			39	15/530	1.5 x 1.0 x 0.4	SMA	EAR99
PE15A4016	Power	1.0 - 2.0	35	0.75	36	4		1.5	45	12/800	2.75 x 1.45 x 0.50	SMA	EAR99
PE15A4025	Power	1.0 - 2.0	35	0.75	33	2		1.5	45	12/800	2.75 x 1.45 x 0.50	SMA	EAR99
PE15A4010	High Gain, Power	1.2 - 1.4	46	0.5				28		12/400	2.36 x 1.93 x 0.57	SMA	EAR99
PE15A4013	Power	7.5-11	25	2	33	2	37			5/13000	1.5 x 1.2 x 0.56	SMA	EAR99
PE15A4014	Power	8.0-11.0	25	2	31	1.3	34			5/+2000	1.5 x 1.2 x 0.56	SMA	EAR99
PE15A4015	Power	8.0 - 11.0	28	3	32	1.6	36			5/+2000	1.5 x 1.2 x 0.56	SMA	EAR99
PE15A4007	Power	8.0 - 11.0	28	5	36	4				12/4500	1.5 x 1.2 x 0.56	SMA	EAR99
PE15A4008	High Gain, Power	8 - 12	41	1	30	1		3.5		12/1200	2.36 x 2.91 x 0.63	SMA	EAR99
PE15A4006	Power	8.5 - 11	30	0.75	30	1		5	45	12/900	3.97 x 3.64 x 0.67	SMA	EAR99
PE15A4021	Power	18 - 26.5	33	1.25	31	1.3			38	12/1800	1.9 x 1.5 x 0.4	SMA	EAR99

High Power Amplifiers

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PE P/N	Amplifier Type	"Frequency Band (GHz)"	Gain (dB)	"Gain Variation" +/- (dB)	P1dB (dBm)	P1dB (Watts)	Psat (dBm)	IP3 (dBm)	DC Power (Volts/mA)	"Mechanical Dimensions" L(in) X W(in) X H(in)	"Connector Type"	ECCN
PE15A5029	Power	0.0005-0.5	40	1	36	4	39	42	28/2000	6.0 x 3.0 x 1.1	SMA	EAR99
PE15A5029F	Power with Fan	0.0005-0.5	40	1	36	4	39	42	28/3000	6.0 x 3.0 x 3.5	SMA	EAR99
PE15A5030	Power	0.001-1.0	36	1.5	33	2	36	39	28/1200	6.0 x 3.0 x 1.1	SMA	EAR99
PE15A5030F	Power with Fan	0.001-1.0	36	1.5	33	2	36	39	28/1700	8.7 x 5.2 x 3.5	SMA	EAR99
PE15A5028	Power	0.0015 - 0.230	43	1.5	41.8	15	44	48	28/5000	5.95 x 2.95 x 1.06	SMA	EAR99
PE15A5028F	Power with Fan	0.0015 - 0.230	43	1.5	41.8	15	44	48	28/6000	8.5 x 5.25 x 3.5	SMA	EAR99
PE15A5031	Power	0.020 - 1.0	46	1.5	40	10	44	48	28/5200	5.95 x 2.95 x 1.06	SMA	EAR99
PE15A5031F	Power with Fan	0.020 - 1.0	46	1.5	40	10	44	48	28/5800	8.7 x 5.2 x 3.5	SMA	EAR99
PE15A5011	High Power	0.03 - 2.5	43	2	36	4	38.45		28/1200	3.75 x 2.0 x 0.52	SMA	EAR99
PE15A5027	Power	0.1 - 6.0	60	1.25			40		28/2200	2.5 x 2.75 x 0.45	SMA	EAR99
PE15A5013	High Power	0.5 - 2.8	37	2	37	5		52	12/1800	5.0 x 2.5 x 0.513	SMA	EAR99
PE15A5032	Power	0.50-3.0	48	2	44	25	47	52	42/7200	6.0 x 5.0 x 1.1	SMA	EAR99
PE15A5032F	Power with Fan	0.50-3.0	48	2	44	25	47	52	42/7200	10.5 X 6.1 X 4.5	SMA	EAR99
PE15A5004	High Power	0.7 - 2.2	30	4	38	6.3	39	39	28/600	1.5 x 1.2 x 0.56	SMA	EAR99
PE15A5033	Power	0.70-2.7	45	1.5			50		30	7.25 x 4.25 x 1.25	SMA	EAR99

High Power Amplifiers

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Continued

PE P/N	Amplifier Type	"Frequency Band (GHz)"	Gain (dB)	"Gain Variation" +/- (dB)	P1dB (dBm)	P1dB (Watts)	Psat (dBm)	IP3 (dBm)	DC Power (Volts/mA)	"Mechanical Dimensions" L(in) X W(in) X H(in)	"Connector Type"	ECCN
PE15A5033F	Power with Fan	0.70-2.7	45	1.5			50		30	10.75 x 7.0 x 3.75	SMA	EAR99
PE15A5017	Power	0.7 - 6.0	43	2	39	8			28/2000	3.75 x 1.75 x 1.06	SMA	EAR99
PE15A5035	Power	0.8 - 2.0	41	1.5	40	10	40.8	50	13/5000	6.8 x 2.7 x 1.0	SMA	EAR99
PE15A5035F	Power with Fan	0.8 - 2.0	41	1.5	40	10	40.8	50	13/5500	8.7 x 5.2 x 3.5	SMA	EAR99
PE15A5020	Power	0.8 - 2.5	40	1.5	42	16		50	12/6000	3.75 x 1.75 x 1.06	SMA	EAR99
PE15A5034	Power	0.8 - 4.2	31	2			31.8	41	13/800	2.97 x 2.16 x 0.59	SMA	EAR99
PE15A5034F	Power with Fan	0.8 - 4.2	31	2			31.8	41	13/1000	3.94 x 2.88 x 2.03	SMA	EAR99
PE15A5010	High Power	0.925 - 2.0	58	1	47	50		66	12/15000	7.5 x 3.97 x 0.79	SMA	EAR99
PE15A5036	Power	1.0-2.5	40	1.5	39	8	40	49	13/5000	6.8 x 2.7 x 1.0	SMA	EAR99
PE15A5036F	Power with Fan	1.0-2.5	40	1.5	39	8	40	49	13/5500	8.3 x 5.2 x 3.4	SMA	EAR99
PE15A5037	Power	1.0-3.0	39	1.5	37.8	6	39	48	13/3000	6.8 x 2.7 x 1.0	SMA	EAR99
PE15A5037F	Power with Fan	1.0-3.0	39	1.5	37.8	6	39	48	13/4000	8.7 x 5.2 x 3.5	SMA	EAR99
PE15A5001	High Gain, High Power	1.2 - 1.4	40		40	10			12/4000	3.97 x 3.64 x 0.67	SMA	EAR99
PE15A5005	High Power	1.5 - 3.5	20	1.25	38	6.3	39	45	14/1050	1.5 x 1.2 x 0.56	SMA	EAR99
PE15A5014	Power	1.7 - 2.2	50	0.5	43	20		60	12/6000	6.0 x 3.5 x 0.693	SMA	EAR99
PE15A5015	High Power	1.7 - 2.5	11	0.5	37	5			12/8000	3.75 x 1.9 x 0.493	SMA	EAR99
PE15A4011	High Power	2.0 - 4.4	32	0.5			37.5	45	8/1400	1.5 x 1.2 x 0.56	SMA	EAR99
PE15A5025	Power	2.0 - 6.0	50	1.25	47	50			28/6000	2.5 x 2.75 x 0.45	SMA	EAR99
PE15A5024	Power	2.0 - 6.0	50	1.25			43		28/3000	2.5 x 2.75 x 0.45	SMA	EAR99
PE15A5022	Power	2.2 - 2.7	50	1.5	47	50	49		28/11000	7.7 x 6.7 x 0.985	SMA	EAR99
PE15A5018	High Power	2.3 - 2.7	50	0.5	43	20			12/6000	6.0 x 3.5 x 0.69	SMA	EAR99
PE15A5006	High Power	2.5 - 4.0	19	0.5	37.5	5.6	38.5	45	12/1300	1.5 x 1.2 x 0.56	SMA	EAR99
PE15A5007	High Power	2.6 - 4.2	19	1	38	6.3	39	47	14/1200	1.5 x 1.2 x 0.56	SMA	EAR99
PE15A5002	High Gain, High Power	3.1 - 3.5	45	1.5			40		15/5000	3.97 x 3.64 x 0.67	SMA	EAR99
PE15A5003	High Gain, High Power	3.1 - 3.5	47	1.5	43	20			12/9000	8.0 x 2.84 x 0.63	SMA	EAR99
PE15A5023	Power	3.1 - 3.5	8	0.5	37	5			12/800	3.75 x 1.9 x 0.493	SMA	EAR99
PE15A5008	High Power	3.5 - 7.0	19	2	37.5	5.6	38	47	14/1200	1.5 x 1.2 x 0.56	SMA	EAR99
PE15A4012	Power	3.5 - 7.0	26	2	36.5	4.5	37.5	45	8/1600	1.5 x 1.2 x 0.56	SMA	EAR99
PE15A5009	High Power	5.5 - 9.5	24	2	37.5	5.6	38	47	8/1600	1.5 x 1.2 x 0.56	SMA	EAR99
PE15A5016	Power	6.4 - 7.1	58	2	43	20			28/750	6.0 x 2.5 x 1.06	SMA	3A001.b.4
PE15A5019	High Power	7.2 - 7.5	58	2			41.8		28/2300	6.0 x 2.5 x 1.06	SMA	3A001.b.4
PE15A4020	Power	17.5 - 21.5	40	1.5	37	5		45	12/3500	2.6 x 2.0 x 0.5	SMA	EAR99

Bench-Top Amplifiers



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PE P/N	Amplifier Type	"Frequency Band (GHz)"	Gain (dB)	"Gain Variation" +/- (dB)	P1dB (dBm)	NF (dB)	DC Power (Optional DC Input)	AC Power (Voltage/Cycle)	"Mechanical Dimensions" L(in) X W(in) X H(in)	"Connector Type"	ECCN
PE15A3500	Bench-Top	1 - 20	60	3	10	5		115/60	4.92 x 4.92 x 2.1	SMA	EAR99
PE15A3595	Bench-Top	1 - 40	40	3	22	5	12	115/60	4.92 x 4.92 x 2.1	2.92mm	EAR99
PE15A3501	Bench-Top	20 - 40	30	2	10	5		115/60	4.92 x 4.92 x 2.1	2.92mm	EAR99
PE15A3502	Bench-Top	20 - 40	60	3	10	5		115/60	4.92 x 4.92 x 2.1	2.92mm	EAR99

Bi-Directional Amplifiers

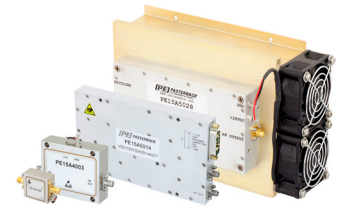


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PE P/N	Amplifier Type	"Frequency Band (GHz)"	Tx Gain (dB)	"Gain Variation" +/- (dB)	P1dB (Watts) Linear	Rx P1dB (dBm)	Rx NF (dB)	Rx Gain (dB)	DC Power Tx (Volts/mA)	"Mechanical Dimensions" L(in) X W(in) X H(in)	"Connector Type"	ECCN
PE15B5001	Bi-Directional	1.35 - 1.39	23	0.5	20	0	2.5	10	28/2400	3.3 x 2.69 x 0.65	SMA	EAR99
PE15B5000	Bi-Directional	2.4 - 2.5	20	0.5	20	0	2.5	11	28/2400	3.33 x 2.69 x 0.65	SMA	EAR99

Hi-Rel Amplifiers

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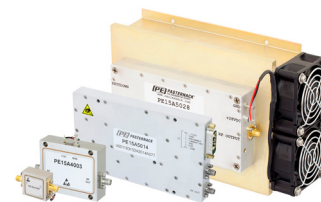
PE P/N	Amplifier Type	"Frequency Band (GHz)"	Gain (dB)	"Gain Variation" +/- (dB)	P1dB (dBm)	P1dB (Watts)	Psat (dBm)	NF (dB)	IP3 (dBm)	DC Power (Volts/mA)	"Mechanical Dimensions" L(in) X W(in) X H(in)	"Connector Type"	MIL Specs	ECCN
PE15A5029	Power	0.0005-0.5	40	1	36	4	39	42	28/2000	6.0 x 3.0 x 1.1	SMA	*1	EAR99	
PE15A5029F	Power with Fan	0.0005-0.5	40	1	36	4	39	42	28/3000	6.0 x 3.0 x 3.5	SMA	*1	EAR99	
PE15A5030	Power	0.001-1.0	36	1.5	33	2	36	39	28/1200	6.0 x 3.0 x 1.1	SMA	*1	EAR99	
PE15A5030F	Power with Fan	0.001-1.0	36	1.5	33	2	36	39	28/1700	8.7 x 5.2 x 3.5	SMA	*1	EAR99	
PE15A5028	Power	0.0015 - 0.230	43	1.5	41.8	15	44	48	28/5000	5.95 x 2.95 x 1.06	SMA	*1	EAR99	
PE15A5028F	Power with Fan	0.0015 - 0.230	43	1.5	41.8	15	44	48	28/6000	8.5 x 5.25 x 3.5	SMA	*1	EAR99	
PE15A5031	Power	0.020 - 1.0	46	1.5	40	10	44	48	28/5200	5.95 x 2.95 x 1.06	SMA	*1	EAR99	
PE15A5031F	Power with Fan	0.020 - 1.0	46	1.5	40	10	44	48	28/5800	8.7 x 5.2 x 3.5	SMA	*1	EAR99	
PE15A5011	High Power	0.03 - 2.5	43	2	36	4	38.45		28/1200	3.75 x 2.0 x 0.52	SMA	*2	EAR99	
PE15A3254	Low Noise	0.03 - 20	15	2.5	20	0.1		3	31	12/180	1.08 x 0.53 x 0.29	SMA	*2	EAR99
PE15A4009	Broadband	0.05 - 1	26	0.75	28	0.6		5	36	12/400	2.14 x 2.32 x 0.71	SMA	*3	EAR99
PE15A5027	Power	0.1 - 6.0	60	1.25			40	10	28/2200	2.5 x 2.75 x 0.45	SMA	*1,*2	EAR99	
PE15A3014	Broadband	0.5 - 2	30	0.6	24	0.25		2.7	34	12/240	1.9 x 1.5 x 0.5	SMA	*3	EAR99
PE15A3015	Broadband	0.5 - 2	46	0.8	24	0.25		2.7	34	12/300	1.38 x 0.9 x 0.5	SMA	*3	EAR99
PE15A5013	High Power	0.5 - 2.8	37	2	37	5		52	12/1800	5.0 x 2.5 x 0.513	SMA	*2	EAR99	

Notes: *1= Designed to meet test conditions for MIL-STD-810; *2= Designed to meet test conditions for MIL-STD-202; *3= Designed to meet and environmentally screened to MIL-STD-202 test conditions

Hi-Rel Amplifiers

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Continued



PE P/N	Amplifier Type	*Frequency Band (GHz)*	Gain (dB)	*Gain Variation* +/- (dB)	P1dB (dBm)	P1dB (Watts)	Psat (dBm)	NF (dB)	IP3 (dBm)	DC Power (Volts/mA)	*Mechanical Dimensions* L(in) X W(in) X H(in)	*Connector Type*	MIL Specs	ECCN
PE15A5032	Power	0.50-3.0	48	2	44	25	47		52	42/7200	6.0 x 5.0 x 1.1	SMA	*1	EAR99
PE15A5032F	Power with Fan	0.50-3.0	48	2	44	25	47		52	42/7200	10.5 X 6.1 X 4.5	SMA	*1	EAR99
PE15A3263	Broadband, Low Noise	0.5 - 18	33	1.5	15	0.03		5		12/220	1.33 x 1.093 x 0.38	SMA	*3	EAR99
PE15A3253	Broadband	0.5 - 20	14	1.8	14	0.03		3.0	31	15/75	1.1 x 0.71 x 0.3	SMA	*2	EAR99
PE15A5033	Power	0.70-2.7	45	1.5			50			30	7.25 x 4.25 x 1.25	SMA	*1	EAR99
PE15A5033F	Power with Fan	0.70-2.7	45	1.5			50			30	10.75 x 7.0 x 3.75	SMA	*1	EAR99
PE15A5017	Power	0.7 - 6.0	43	2	39	8				28/2000	3.75 x 1.75 x 1.06	SMA	*2	EAR99
PE15A5035F	Power with Fan	0.8 - 2.0	41	1.5			40.8		50	13/5000	8.54 x 5.20 x 3.51	SMA	*1	EAR99
PE15A5035	Power	0.8 - 2.0	41	1.5	40	10	40.8		50	13/5000	6.8 x 2.7 x 1.0	SMA	*1	EAR99
PE15A5020	Power	0.8 - 2.5	40	1.5	42	16			50	12/6000	3.75 x 1.75 x 1.06	SMA	*2	EAR99
PE15A5034	Power	0.8 - 4.2	31	2			31.8		41	13/800	2.97 x 2.16 x 0.59	SMA	*1	EAR99
PE15A5034F	Power with Fan	0.8 - 4.2	31	2			31.8		41	13/1000	3.94 x 2.88 x 2.03	SMA	*1	EAR99
PE15A3264	Broadband, Low Noise	0.8 - 5.5	20	0.5	25	0.30	28		34	12/750	1.837 x 1.150 x 0.67	SMA	*3	EAR99
PE15A5010	High Power	0.925 - 2.0	58	1	47	50			66	12/15000	7.5 x 3.97 x 0.79	SMA	*2	EAR99
PE15A1000	Low Noise	1 - 2	35		10	0.01	10	1.5		13/200	1.07 x 1.0 x 0.5	SMA	*3	EAR99
PE15A5036	Power	1.0-2.5	40	1.5	39	8	40		49	13/5000	6.8 x 2.7 x 1.0	SMA	*1	EAR99
PE15A5036F	Power with Fan	1.0-2.5	40	1.5	39	8	40		49	13/5500	8.3 x 5.2 x 3.4	SMA	*1	EAR99
PE15A5037	Power	1.0-3.0	39	1.5	37.8	6	39		48	13/3000	6.8 x 2.7 x 1.0	SMA	*1	EAR99
PE15A5037F	Power with Fan	1.0-3.0	39	1.5	37.8	6	39		48	13/4000	8.7 x 5.2 x 3.5	SMA	*1	EAR99
PE15A3262	Broadband, Low Noise	1 - 18	30	1	20	0.10		3.7		12/240	1.6 x 1.0 x 0.378	SMA	*3	EAR99
PE15A1005	High Gain, Low Noise	1.2 - 1.4	40	0.75	15	0.03		1.5		13.2/250	1.083 x 1.168 x 0.382	SMA	*3	EAR99
PE15A4010	High Gain, Power	1.2 - 1.4	46	0.5			28			12/400	2.36 x 1.93 x 0.57	SMA	*3	EAR99
PE15A5001	High Gain, High Power	1.2 - 1.4	40		40	10				12/4000	3.97 x 3.64 x 0.67	SMA	*3	EAR99
PE15A5014	Power	1.7 - 2.2	50	0.5	43	20			60	12/6000	6.0 x 3.5 x 0.693	SMA	*2	EAR99
PE15A5015	High Power	1.7 - 2.5	11	0.5	37	5				12/8000	3.75 x 1.9 x 0.493	SMA	*2	EAR99
PE15A1001	Low Noise	2 - 4	38		13	0.02	13	2		13/250	1.583 x 1.093 x 0.382	SMA	*3	EAR99
PE15A5038	Power	2 - 4	39	1.5			39		48	13/5500	6.8 x 2.7 x 1.0	SMA	*1	EAR99
PE15A5038F	Power	2 - 4	39	1.5			39		48	13/5500	8.7 x 5.2 x 3.5	SMA	*1	EAR99
PE15A3503	Broadband, High Gain	2 - 6	44	1	30	1		5	39	12/1050	1.837 x 1.15 x 0.67	SMA	*3	EAR99
PE15A3504	Broadband, High Gain	2 - 6	44	1	33	2		5	42	12/1750	2.36 x 1.93 x 0.67	SMA	*3	EAR99
PE15A4003	Broadband	2 - 6	32	1	33	2		5	42	12/1700	2.36 x 1.93 x 0.67	SMA	*3	EAR99
PE15A4005	Broadband	2 - 6	33	1	30	1		5	39	12/1000	1.837 x 1.15 x 0.67	SMA	*3	EAR99

Notes: *1= Designed to meet test conditions for MIL-STD-810; *2= Designed to meet test conditions for MIL-STD-202; *3= Designed to meet and environmentally screened to MIL-STD-202 test conditions



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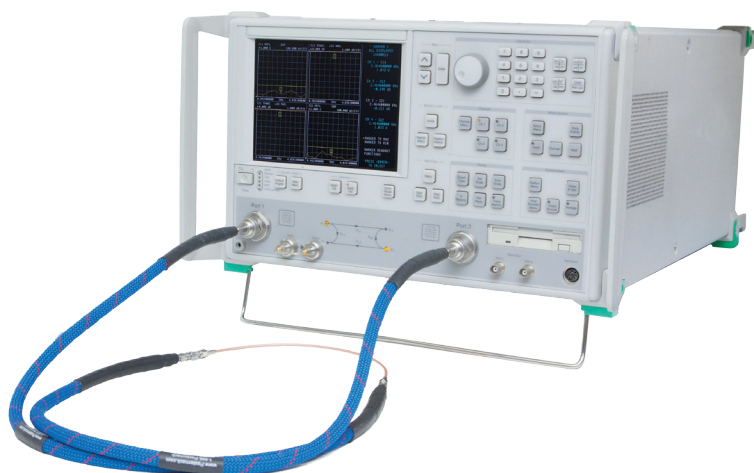
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