

Connectorized Amplifier

50Ω, 20 MHz to 8 GHz

**ZX60-8008E+
ZX60-8008E**

Features

- Wide Bandwidth, 20 MHz to 8 GHz
- Good IP3, 24 dBm Typ.
- Excellent Repeatability
- Protected by US Patent 6,790,049

Applications

- Buffer Amplifier
- Cellular
- PCS
- Lab
- Instrumentation
- Test Equipment



CASE STYLE: GC957

Connectors	Model	Price	Qty.
SMA	ZX60-8008E-S+	\$49.95 ea.	(1-9)
SMA	ZX60-8008E-S	\$49.95 ea.	(1-9)

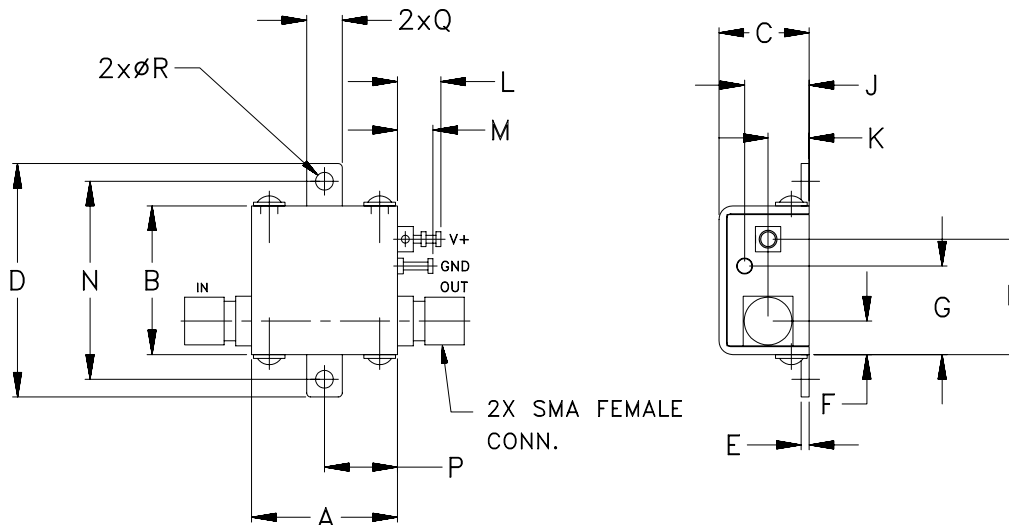
Electrical Specifications at $T_{AMB} = 25^{\circ}\text{C}$

MODEL NO.	FREQ. (GHz) f _L - f _U	DC VOLTAGE @ Pin V+ (V)	GAIN over frequency in GHz Typ (dB)										MAXIMUM POWER (dBm) Output (1 dB Comp.) Typ. f _L f _U		DYNAMIC RANGE NF IP3 (dB) (dBm) Typ. Typ.		VSWR (:1) Typ. In Out f _L -3 f _U f _L -3 f _U GHz GHz GHz GHz				ACTIVE DIRECTIVITY (dB) Isolation-Gain Typ.		DC OPERATING CURRENT @ Pin V+ (mA) Typ. Max.	
			0.1	1.0	2.0	3.0	4.0	5.0	6.0	8.0	Min.at 2 GHz													
ZX60-8008E(+)	0.02-8	12.0	11.5	11.1	10.4	9.9	9.0	9.0	8.5	7.0	8.4	10.8	6.6	4.1	24	1.3	1.5	1.6	1.9	6-11	39	50		

Maximum Ratings

Operating Temperature	-45°C to 85°C
Storage Temperature	-55°C to 100°C
DC Voltage	12.5V
Input Power(no Damage)	15dBm
Power	650mW

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	wt.
.74	.75	.46	1.18	.04	.17	.45	.59	.33	.21	.22	.18	1.00	0.37	.18	.09	grams
18.8	19.1	11.6	30.0	1.0	4.3	11.4	14.9	8.3	5.3	5.6	4.6	25.4	9.4	4.6	2.3	23.0



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Mini-Circuits ISO 9001 & ISO 14001 Certified

Typical Performance Data & Curves at 25°C

ZX60-8008E+ ZX60-8008E

FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR IN (:1)	VSWR OUT (:1)	POWER OUT @1dB COMPRESSION (dBm)	IP3 (dBm)	NF (dB)
20	11.39	5.54	1.40	1.64	10.42	26.63	4.46
50	11.45	5.46	1.36	1.60	10.44	26.61	4.42
100	11.46	5.42	1.36	1.60	10.46	26.58	4.36
500	11.26	5.75	1.34	1.58	10.52	26.36	4.07
1000	11.03	6.10	1.30	1.57	10.46	26.12	4.00
1550	10.65	6.68	1.25	1.57	10.35	25.90	4.04
2000	10.35	7.01	1.19	1.55	10.28	25.73	4.09
2275	10.28	7.10	1.17	1.53	10.25	25.63	4.10
3000	9.85	7.79	1.08	1.48	10.24	25.33	4.09
3500	9.33	8.48	1.09	1.49	10.24	25.08	4.06
3750	9.39	8.34	1.13	1.50	10.24	24.94	4.05
4000	8.83	8.72	1.20	1.48	10.22	24.79	4.04
4500	8.95	8.46	1.35	1.50	10.13	24.42	4.05
5000	8.87	8.50	1.44	1.52	9.96	23.98	4.10
5500	8.47	9.03	1.58	1.62	9.67	23.43	4.19
6000	8.28	9.14	1.67	1.75	9.28	22.76	4.29
6500	8.10	9.41	1.74	1.92	8.78	21.96	4.40
7000	7.90	10.03	1.79	2.12	8.20	21.01	4.51
7500	7.38	10.64	1.86	2.34	7.57	19.89	4.67
8000	6.69	11.47	1.97	2.55	6.90	18.59	4.97

