Connectorized

Amplifier

ZX60-8008E+

50Ω 20 MHz to 8 GHz

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)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

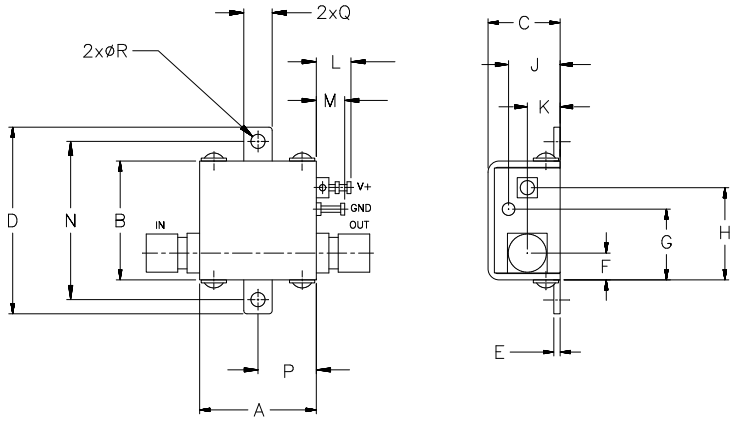
Electrical Specifications at T_{AMB} = 25°C

MODEL NO.	FREQ. (GHz) f_L- f_U	DC VOLTAGE @ Pin V+ (V)	GAIN over frequency in GHz Typ (dB) 0.1	1.0	2.0	3.0	4.0	5.0	6.0	8.0	Min.at 2 GHz	MAXIMUM POWER (dBm) Output (1 dB Comp.) Typ. f_L	f_U	DYNAMIC RANGE NF (dB) Typ.	IP3 (dBm) Typ.	VSWR (:1) Typ. In f_L-3 GHz	In 3-f_U GHz	Out f_L-3 GHz	Out 3-f_U GHz	ACTIVE DIRECTIVITY (dB) Isolation-Gain Typ.	DC OPERATING CURRENT @ Pin V+ (mA) Typ.	Max.
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 80°C case
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	.37	.18	.09	grams
18.80	19.05	11.68	29.97	1.02	4.32	11.43	14.99	8.38	5.33	5.59	4.57	25.40	9.40	4.57	2.29	23.0

Typical Performance Data & Curves at 25°C

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