Connectorized

Amplifier

ZX60-4016E+

50Ω 20 MHz to 4 GHz

Features

- Wide bandwidth, 20 MHz to 4 GHz
- Low noise figure, 3.9 dB typ.
- Output power up to 17.4 dBm typ.
- Protected by US patent 6,790,049

Applications

- Cellular
- PCS
- Communication receivers & transmitters
- Lab
- Instrumentation
- Test equipment

CASE STYLE: GC957

Connectors	Model	Price	Qty.
SMA	ZX60-4016E-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

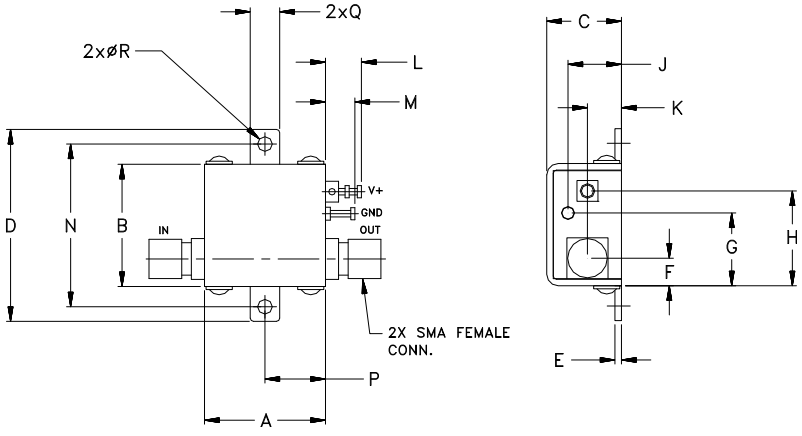
MODEL NO.	FREQ. (GHz) f_L - f_U	DC VOLTAGE @ Pin V+ (V)	GAIN over frequency in GHz Typ (dB) 0.1	1.0	2.0	3.0	4.0	Min.at 2 GHz	MAXIMUM POWER (dBm) Output (1 dB Comp.) Typ. f_L	f_U	DYNAMIC RANGE NF (dB) Typ.	IP3 (dBm) Typ.	VSWR (:1) Typ. In f_L-3 GHz	In 3-f_U GHz	Out f_L-3 GHz	Out 3-f_U GHz	ACTIVE DIRECTIVITY (dB) Isolation-Gain Typ.	DC OPERATING CURRENT @ Pin V+ (mA) Typ.	Max.
ZX60-4016E+	0.02 - 4	12.0	20.1	19.5	18.2	16.5	14.9	15.7	17.4	14.5	3.9	30.0	1.25	1.3	1.3	1.2	3-6	64	75

Maximum Ratings

Operating Temperature	-45°C to 80°C case
Storage Temperature	-55°C to 100°C
DC Voltage	12.5 V
Input Power(no Damage)	13 dBm
Power	950 mW

Permanent damage may occur if any of these limits are exceeded.

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	.106	GRAM
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	2.69	23.0

Typical Performance Data & Curves at 25°C ZX60-4016E+

FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR IN (:1)	VSWR OUT (:1)	POWER OUT @1dB COMPRESSION (dBm)	IP3 (dBm)	NF (dB)
20	19.93	3.47	1.31	1.41	17.64	31.98	3.78
50	20.09	3.11	1.28	1.34	17.89	32.36	3.64
100	20.14	2.99	1.28	1.31	17.93	32.64	3.51
250	20.10	3.04	1.29	1.30	17.97	32.89	3.65
500	19.94	3.13	1.27	1.28	17.94	32.28	3.73
750	19.83	3.21	1.26	1.27	17.84	32.03	3.81
1000	19.54	3.35	1.22	1.24	17.95	32.66	3.82
1250	19.34	3.57	1.19	1.20	17.61	31.91	3.66
1500	18.96	3.59	1.18	1.18	17.68	31.35	3.86
1750	18.56	3.80	1.18	1.16	17.83	31.57	3.78
2000	18.24	4.02	1.21	1.11	17.68	31.24	3.97
2250	17.85	4.38	1.25	1.07	17.56	31.10	3.93
2500	17.42	4.75	1.30	1.04	17.40	30.48	4.01
2750	16.94	4.97	1.35	1.02	16.95	29.71	3.96
3000	16.51	5.37	1.40	1.04	16.20	29.86	4.09
3250	15.94	5.45	1.43	1.05	15.82	28.85	4.29
3500	15.68	5.86	1.47	1.08	15.45	27.57	4.36
3700	15.34	6.00	1.48	1.09	14.94	28.90	4.41
3900	15.07	6.03	1.46	1.10	14.53	27.18	4.46
4000	14.93	5.98	1.48	1.09	14.35	27.84	4.45