

# Connectorized Amplifier

## ZX60-4016E+ ZX60-4016E

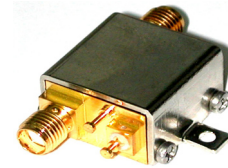
50Ω, 20 MHz to 4 GHz

### 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)
SMA	ZX60-4016E-S	\$49.95 ea.	(1-9)

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

The +suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

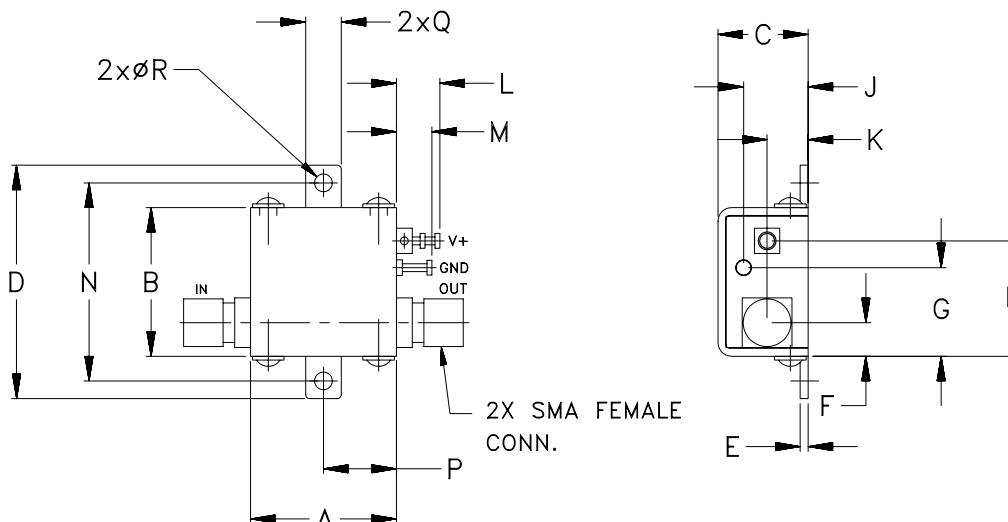
### Electrical Specifications at T<sub>AMB</sub> = 25°C

MODEL NO.	FREQ. (GHz) f <sub>L</sub> - f <sub>U</sub>	DC VOLTAGE @ Pin V+ (V)	GAIN over frequency in GHz Typ (dB)					MAXIMUM POWER (dBm) Output (1 dB Comp.) Typ. f <sub>L</sub> f <sub>U</sub>	DYNAMIC RANGE		VSWR (:1) Typ.				ACTIVE DIRECTIVITY (dB) Isolation-Gain Typ.	DC OPERATING CURRENT @ Pin V+ (mA)			
			0.1	1.0	2.0	3.0	4.0		Min.at 2 GHz	NF (dB) Typ.	IP3 (dBm) Typ.	In f <sub>L</sub> -3 GHz	Out 3-f <sub>U</sub> GHz	In f <sub>L</sub> -3 GHz		Out 3-f <sub>U</sub> GHz	Typ.	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 85°C
Storage Temperature	-55°C to 100°C
DC Voltage	12.5V
Input Power(no Damage)	13dBm
Power	950mW

### 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

# Typical Performance Data & Curves at 25°C

# ZX60-4016E+ 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

