

Coaxial Amplifier

ZX60-2514M+ ZX60-2514M

50Ω High Isolation 0.5 to 2.5 GHz

Features

- from 2.8V to 5V operation
- wide bandwidth, 0.5 to 2.5 GHz
- high active directivity, 20 dB typ.
- output power, up to 18.3 dBm typ.
- protected by US patent 6,790,049

Applications

- buffer amplifier
- LO amplifiers for mixers
- cellular
- PCN



CASE STYLE: GC957

Connectors	Model	Price	Qty.
SMA	ZX60-2514M-S(+)	\$59.95	(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.*

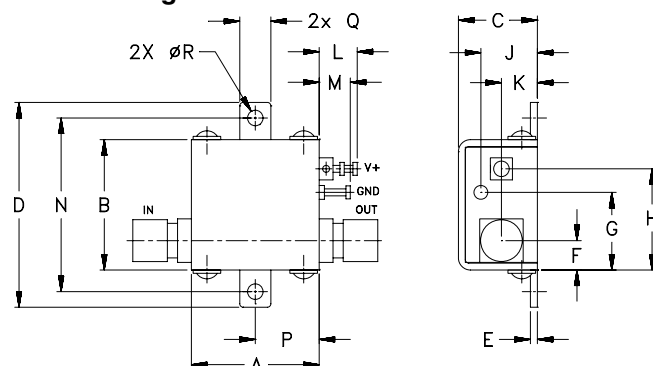
Electrical Specifications $T_{AMB}=25^{\circ}\text{C}$

MODEL NO.	FREQ. (GHz)		DC VOLTS (V)	GAIN, dB Typical						MAXIMUM POWER (dBm)		DYNAMIC RANGE			VSWR (:1) Typ.		ACTIVE DIRECTIVITY (dB) (Isolation-Gain)	DC OPERATING CURRENT @ Pin V+ (mA)	
				over frequency, GHz								NF (dB) Typ.	IP3 (dBm) Typ.						
	Min. at 2 GHz							Output (1 dB Comp.)	at 1 GHz	at 1 GHz	at 2 GHz								
		0.5		1.0	1.5	2.0	2.5					at 1	at 1	at 2					
	f _L	f _U							f _L	f _U				In	Out	Typ	Typ	Max.	
ZX60-2514M(+)	0.5	2.5	5.0 2.8	14.1 12.9	16.5 14.9	16.4 14.8	15.7 14.3	14.1 13.0	14.0 —	18.3 14.3	16.2 14.2	4.8 4.9	30.3 26.0	27.8 24.9	1.5 1.5	1.7 1.7	20 20	75 67	90 —

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
DC Voltage	7V
Input Power(no damage)	10 dBm
Power	500mW

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J
.74	.75	.46	1.18	.04	.17	.45	.59	.33
18.8	19.1	11.7	30.0	1.02	4.32	11.43	15.0	8.38
K	L	M	N	P	Q	R		wt
.21	.22	.18	1.00	.37	.18	.09		grams
5.33	5.59	4.57	25.40	9.40	4.57	2.29		23.0

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ISO 9001 ISO 14001 CERTIFIED

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RF/IF MICROWAVE COMPONENTS

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REV. B
M98898
ZX60-2514M
EDR-6137
RVN/TD/CP/AM
070118
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Typical Performance Data/Curves

ZX60-2514M+ ZX60-2514M

FREQUENCY (MHz)	GAIN (dB)		DIRECTIVITY (dB)		VSWR IN (:1)		VSWR OUT (:1)		NOISE FIGURE (dB)		POUT at 1 dB COMPR. (dBm)	
	2.8V	5V	2.8V	5V	2.8V	5V	2.8V	5V	2.8V	5V	2.8V	5V
500.00	13.02	14.17	26.34	24.71	3.80	3.79	3.41	3.23	4.78	4.65	13.23	16.73
600.00	14.14	15.42	24.11	22.36	2.59	2.60	2.59	2.40	4.76	4.69	14.62	18.84
800.00	14.75	16.23	21.61	20.42	1.65	1.65	1.88	1.64	4.77	4.68	14.81	18.70
900.00	14.85	16.35	20.80	19.67	1.48	1.48	1.71	1.45	4.87	4.80	14.84	18.35
1100.00	14.82	16.43	19.45	18.65	1.42	1.42	1.55	1.25	4.77	4.71	14.72	17.70
1400.00	14.80	16.41	17.63	17.53	1.55	1.56	1.50	1.20	4.86	4.78	14.44	16.88
1700.00	14.63	16.19	16.69	16.82	1.59	1.59	1.60	1.31	4.94	4.87	13.81	16.23
2000.00	14.30	15.69	16.32	17.03	1.47	1.45	1.79	1.46	4.96	4.93	13.40	15.68
2300.00	13.18	14.54	17.22	18.34	1.38	1.29	2.02	1.58	5.09	5.02	13.18	15.43
2500.00	12.23	13.54	18.16	19.65	1.48	1.34	2.16	1.63	5.24	5.16	13.29	15.48

