

Coaxial Amplifier

50Ω High Isolation 0.5 to 2.5 GHz

ZX60-2510M+ ZX60-2510M



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 17.1 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	ZX60-2510M-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.

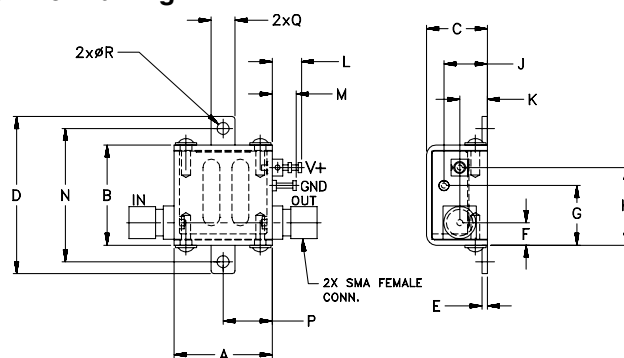
Electrical Specifications T_{AMB}=25°C

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 3 (mA)	
				over frequency, GHz	Min. at 2 GHz	NF (dB) Typ.	IP3 (dBm) Typ.													
f _L	f _U	0.5	1.0	1.5	2.0	2.5	f _L	f _U	at 1 GHz	at 1 GHz	at 2 GHz	In	Out	Typ	Typ	Max.				
ZX60-2510M(+)	0.5	2.5	5.0	10.3	12.7	12.9	12.5	12.1	10.4	17.1	15.1	5.4	28.8	26.5	1.5	1.6	20	69	95	
			2.8	9.1	11.2	11.2	10.7	10.3	—	13.7	13.0	5.4	24.9	23.4	1.5	1.6	20	63	—	

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	1.0	4.3	11.4	15.0	8.4
K	L	M	N	P	Q	R	wt	
.21	.22	.18	1.00	.37	.18	.09	grams	
5.3	5.6	4.6	25.4	9.4	4.6	2.3	23.0	

Mini-Circuits®

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Mini-Circuits ISO 9001 & ISO 14001 Certified

REV. B
M98898
ZX60-2510M
EDR-6123
RVN/TD/CP/AM
060712
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Typical Performance Data/Curves

ZX60-2510M+ ZX60-2510M

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	9.10	10.33	30.11	28.71	1.93	1.95	2.00	1.86	5.70	5.59	13.15	17.28
600.00	10.03	11.30	27.78	26.18	1.76	1.78	1.56	1.43	5.62	5.52	13.84	17.20
800.00	10.87	12.24	24.75	23.62	1.55	1.57	1.18	1.06	5.57	5.49	13.78	16.41
900.00	11.09	12.48	23.70	22.45	1.48	1.50	1.13	1.09	5.54	5.46	13.66	16.40
1100.00	11.27	12.77	21.99	21.11	1.37	1.40	1.18	1.23	5.51	5.42	13.51	15.96
1400.00	11.32	12.94	20.14	19.32	1.25	1.28	1.33	1.41	5.44	5.35	13.23	15.50
1700.00	11.09	12.84	18.87	18.07	1.17	1.18	1.48	1.54	5.47	5.35	12.98	15.31
2000.00	10.80	12.65	18.05	17.39	1.11	1.09	1.61	1.66	5.51	5.40	12.73	15.13
2300.00	10.20	12.11	17.88	17.13	1.11	1.04	1.72	1.74	5.53	5.39	12.53	14.89
2500.00	9.72	11.57	17.84	17.37	1.13	1.06	1.77	1.79	5.56	5.43	12.50	14.71

