

Coaxial Amplifier

50Ω High Isolation 500 to 2500 MHz

ZX60-2510M

Features

- from 2.8V to 5V operation
- wide bandwidth, 500 to 2500 MHz
- 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



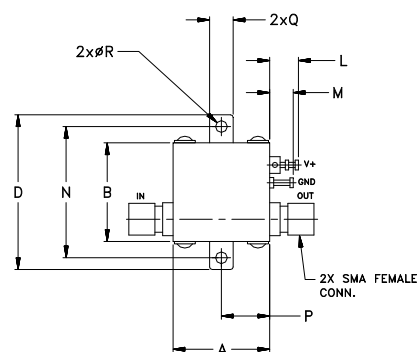
CASE STYLE: GC957

Connectors	Model	Price	Qty.
SMA	ZX60-2510M	\$59.95 ea.	(1-9)

Electrical Specifications at 25°C

Parameter	Condition (MHz)	2.8V			5.0V			Units
		Min.	Typ.	Max.	Min.	Typ.	Max.	
Frequency		500		2500	500		2500	MHz
Gain	500	—	9.1	—	—	10.3	—	dB
	1000	—	11.2	—	—	12.7	—	
	1500	—	11.2	—	—	12.9	—	
	2000	—	10.7	—	10.4	12.5	—	
	2500	—	10.3	—	—	12.1	—	
Output Power at 1dB compression	500	—	13.7	—	—	17.1	—	dBm
	2500	—	13.0	—	—	15.1	—	
Noise Figure	1000	—	5.4	—	—	5.4	—	dB
Output third order intercept point	1000	—	24.9	—	—	28.8	—	dBm
	2000	—	23.4	—	—	26.5	—	
Input VSWR		—	1.5	—	—	1.5	—	:1
Output VSWR		—	1.6	—	—	1.6	—	:1
Active Directivity (Isolation-Gain)		—	20	—	—	20	—	dB
Supply Current		—	63	—	—	69	95	mA

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	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	2.69	23.0

Maximum Ratings

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

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



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Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

For detailed performance specs
& shopping online see web site

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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

