

Coaxial Amplifier

ZX60-2510M

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 17.1 dBm typ.
- protected by US patent 6,790,049

CASE STYLE: GC957

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

Applications

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

Electrical Specifications T_{AMB}=25°C

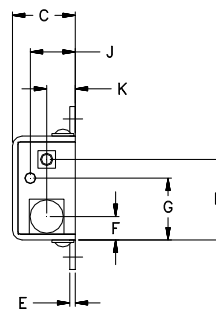
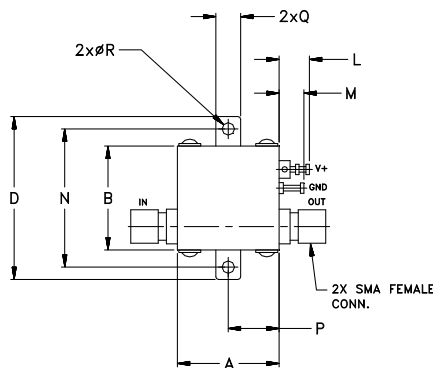
MODEL NO.	FREQ. (GHz)		DC VOLTS (V)	GAIN, dB Typical					MAXIMUM POWER (dBm)			DYNAMIC RANGE			VSWR (:1) Typ.		ACTIVE DIRECTIVITY (dB) (Isolation-Gain) Typ	DC OPERATING CURRENT @ Pin V+ (mA)		
	f _L	f _U		over frequency, GHz					Output (1 dB Comp.) Typ.		Input no damage)	NF (dB) Typ. at 1 GHz	IP3 (dBm) Typ.		In	Out		Typ	Typ	Max.
	0.5	1.0		1.5	2.0	2.5	Min. at 2 GHz	f _L	f _U	at 1 GHz			at 1 GHz	at 2 GHz						
ZX60-2510M	0.5	2.5	5.0 2.8	10.3	12.7	12.9	12.5	12.1	10.4	17.1	15.1	10	5.4	28.8	26.5	1.5	1.6	20	69	95
				9.1	11.2	11.2	10.7	10.3	—	13.7	13.0	10	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

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	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



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com

IF/RF MICROWAVE COMPONENTS

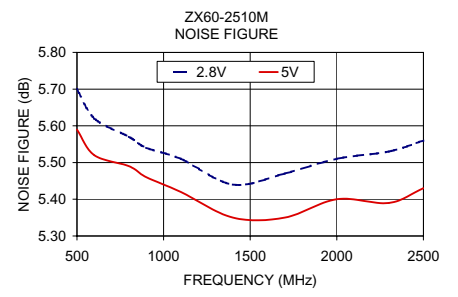
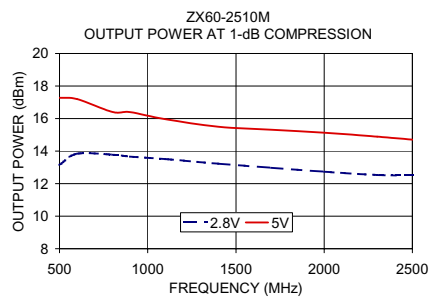
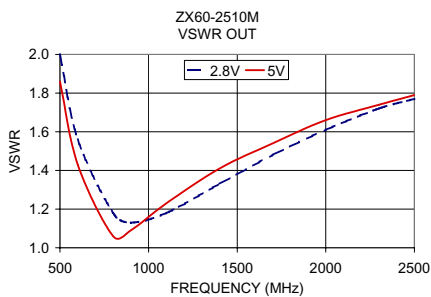
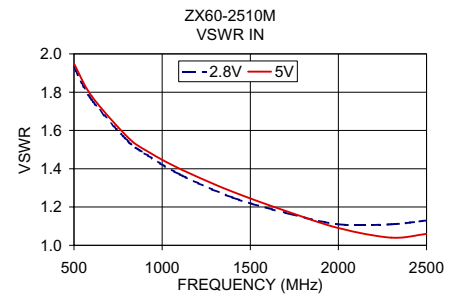
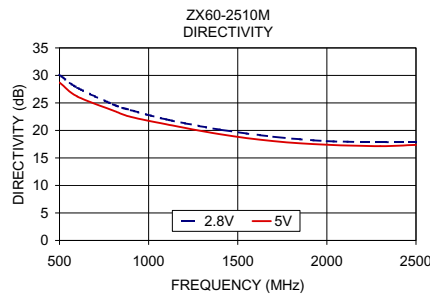
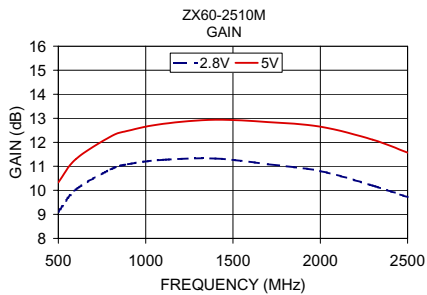
Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established 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.

REV. D
M112825
ZX60-2510M
EDR-6123
RVN/TD/CP/AM
090819
Page 1 of 2

Typical Performance Data/Curves

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



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com

IF/RF MICROWAVE COMPONENTS

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.