Coaxial

Amplifier

ZX60-2514M+

50Ω High Isolation 0.5 to 2.5 GHz

CASE STYLE: GC957

Connectors	Model
SMA	ZX60-2514M-S+

Features

- from 2.8V to 5V operation
- wide bandwidth, 0.5 to 2.5 GHz
- high active directivity, 20 dB typ.
- output power, up to18.3 dBm typ.
- protected by US patent 6,790,049

Applications

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

+RoHS Compliant

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

Electrical Specifications T_{AMB}=25°C

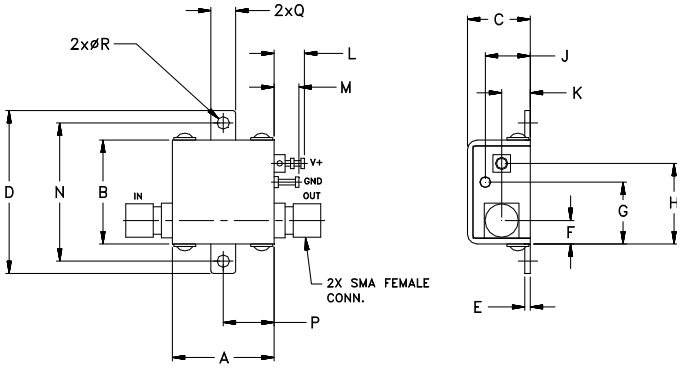
MODEL NO.	FREQ. (GHz)		DC VOLTS (V)	GAIN, dB Typical over frequency, GHz						MAXIMUM POWER (dBm)			DYNAMIC RANGE			VSWR (:1) Typ.		ACTIVE DIRECTIVITY (dB) (Isolation-Gain)	DC OPERATING CURRENT @ Pin V+ (mA)	
									Min.	Output (1 dB Comp.) Typ.		Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.						
	f_L	f_U		0.5	1.0	1.5	2.0	2.5	at 2 GHz	f_L	f_U		at 1 GHz	at 1 GHz	at 2 GHz	In	Out	Typ	Typ	Max.
ZX60-2514M+	0.5	2.5	5.0	14.1	16.5	16.4	15.7	14.1	14.0	18.3	16.2	10	4.8	30.3	27.8	1.5	1.7	20	75	90
			2.8	12.9	14.9	14.8	14.3	13.0	—	14.3	14.2	10	4.9	26.0	24.9	1.5	1.7	20	67	—

Maximum Ratings

Operating Temperature	-40°C to 85°C case
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



NOTE: When soldering the DC connections, caution must be used to avoid overheating the DC terminal. See Application Note. AN-40-010.

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

Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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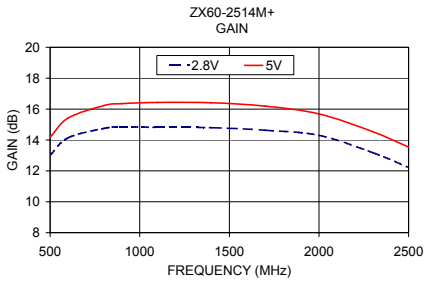
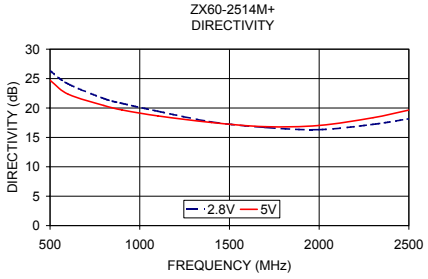
REV. D
M160892
ZX60-2514M+
EDR-6137
RVN/TD/CP/AM
150811

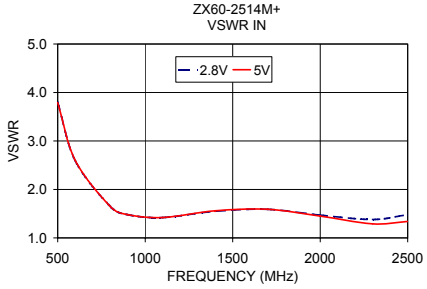
Typical Performance Data/Curves

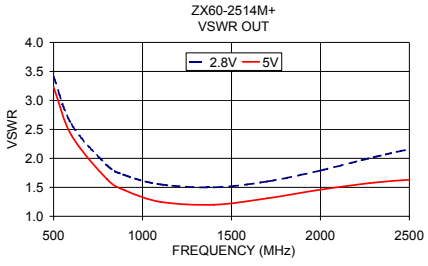
ZX60-2514M+

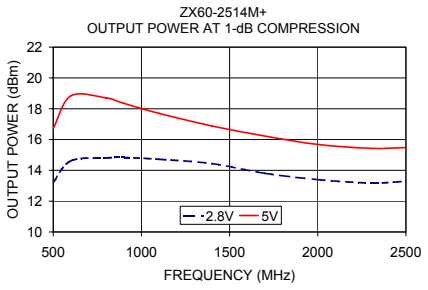
FREQUENCY (MHz)	GAIN (dB)		DIRECTIVITY (dB)		VSWR IN (:1)		VSWR OUT (:1)		NOISE FIGURE (dB)		POUT at 1 dB COMPR. (dBm)	
	2.8V	5V	2.8V	5V	2.8V	5V	2.8V	5V	2.8V	5V	2.8V	5V
500.00	13.02	14.17	26.34	24.71	3.80	3.79	3.41	3.23	4.78	4.65	13.23	16.73
600.00	14.14	15.42	24.11	22.36	2.59	2.60	2.59	2.40	4.76	4.69	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

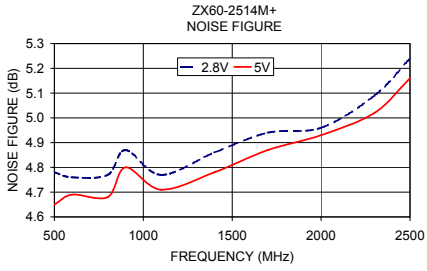












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