

Coaxial Amplifier

ZX60-2522MA+

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
- Output power, up to 20 dBm typ.
- Protected by US patent 6,790,049

Applications

- Buffer amplifier
- LO amplifiers for mixers
- Cellular
- PCN



CASE STYLE: GC957

Connectors	Model
SMA	ZX60-2522MA-S+

+RoHS Compliant

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) Typ.		DC OPERATING CURRENT @ Pin V+ (mA)	
	f_L	f_U		over frequency, GHz							f_L	f_U	NF (dB) Typ.	IP3 (dBm) Typ.		In	Out	f_L	f_U	Typ	Max.
ZX60-2522MA+	0.5	2.5	5.0	0.5	1.0	1.5	2.0	2.5	Min. at 2 GHz		20.5	19.5	2.6	32	30	1.4	1.3	21	13	94	110
			2.8	20.9	22.6	22.6	21.3	19.9	—		12.5	14	2.6	24	25	1.4	1.4	24	14	88	—

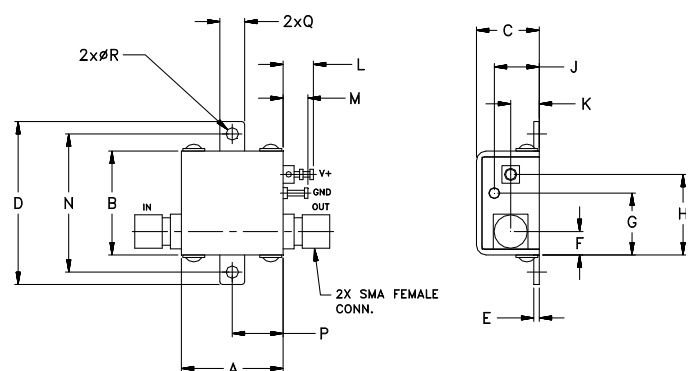
* at 1.1 GHz - 2.5 GHz

Maximum Ratings

Operating Temperature	-40°C to 85°C case
Storage Temperature	-55°C to 100°C
DC Voltage	7V at V+, 1V at input and output
Input Power (No damage)	10 dBm (continuous operation)
	26 dBm (5 minutes max.)
Power Dissipation	970 mW

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

- 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.
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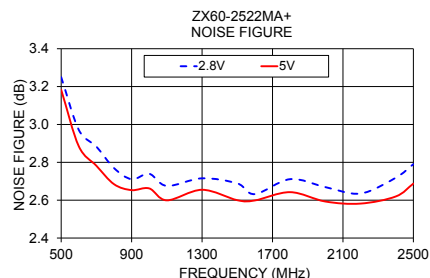
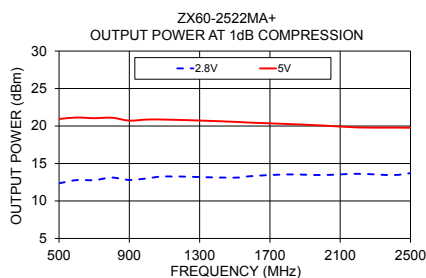
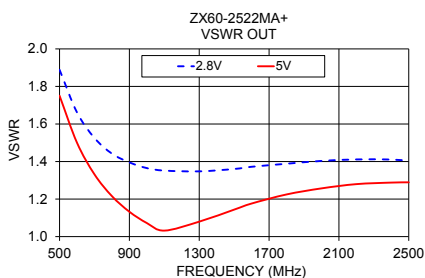
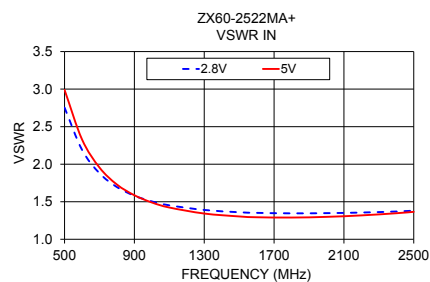
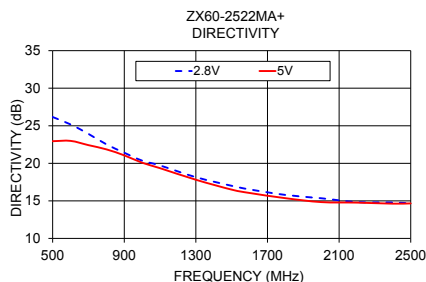
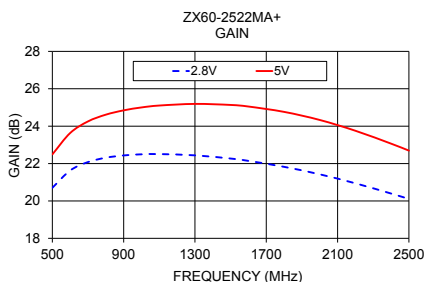
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REV. A
M166315
ZX60-2522MA+
RVN/TD/CP/AM
180215
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Typical Performance Data/Curves

ZX60-2522MA+

FREQUENCY (MHz)	GAIN (dB)		DIRECTIVITY (dB)		VSWR IN (:1)		VSWR OUT (:1)		POUT at 1 dB COMPR. (dBm)		NOISE FIGURE (dB)	
	2.8V	5V	2.8V	5V	2.8V	5V	2.8V	5V	2.8V	5V	2.8V	5V
500	20.70	22.49	26.16	22.95	2.75	2.99	1.89	1.75	12.36	20.94	3.25	3.18
600	21.63	23.63	25.18	22.99	2.19	2.33	1.66	1.50	12.79	21.13	2.97	2.88
700	22.08	24.25	23.92	22.42	1.88	1.96	1.53	1.33	12.78	21.04	2.88	2.78
800	22.31	24.61	22.53	21.86	1.70	1.73	1.44	1.22	13.12	21.11	2.77	2.68
900	22.43	24.85	21.41	21.06	1.58	1.59	1.40	1.13	12.80	20.72	2.71	2.65
1000	22.49	25.00	20.36	20.08	1.50	1.49	1.36	1.07	13.02	20.86	2.74	2.66
1100	22.51	25.10	19.71	19.35	1.45	1.42	1.35	1.03	13.28	20.86	2.68	2.60
1300	22.44	25.19	18.15	17.81	1.39	1.34	1.35	1.08	13.19	20.73	2.72	2.65
1500	22.27	25.13	17.00	16.50	1.36	1.30	1.36	1.14	13.11	20.56	2.69	2.60
1600	22.14	25.05	16.52	16.05	1.35	1.29	1.37	1.18	13.33	20.44	2.63	2.60
1800	21.82	24.76	15.79	15.36	1.35	1.29	1.39	1.22	13.54	20.27	2.71	2.64
2000	21.42	24.33	15.35	14.84	1.35	1.30	1.40	1.26	13.46	20.07	2.67	2.59
2200	20.94	23.75	14.83	14.77	1.36	1.32	1.41	1.28	13.62	19.81	2.64	2.58
2400	20.40	23.06	14.78	14.63	1.37	1.35	1.41	1.29	13.46	19.79	2.72	2.62
2500	20.11	22.69	14.66	14.66	1.38	1.37	1.40	1.29	13.71	19.77	2.79	2.69



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