Low Noise Amplifier

ZX60-272LN+

50Ω 2300 to 2700 MHz

Features

- · Ultra low noise figure, 0.8 dB typ.
- · Output power, up to +18.5 dBm typ.
- · Good output IP3, 31.5 dBm typ.
- · Good return loss
- · Unconditionally stable
- Protected by US patent 6,790,049

Applications

- WiMAX 2.5GHz
- · Base transceiver station, tower mounted amplifier, repeater
- · General purpose low noise amplifier
- Instrumentation
- · Test equipment



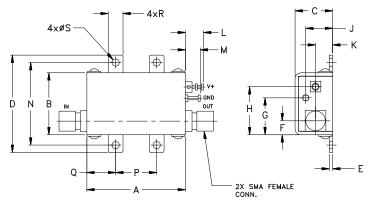
Case Style:GA955 Connectors Model ZX60-272LN-S+ **SMA**

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

Electrical Specifications at 25°C

Parameter	Condition (MHz)	Min.	Тур.	Max.	Units
Frequency Range		2300		2700	MHz
Noise Figure	2300-2700		0.8	1.1	dB
Gain	2300-2700	11.5	14.0		dB
Gain Flatness	2300-2700		± 0.55	± 1.1	dB
Output Power at 1dB compression	2300-2700	16.0	18.5		dBm
Output third order intercept point (OIP3)	2300-2700		31.5		dBm
Input VSWR	2300-2700		1.2		:1
Output VSWR	2300-2700		1.6		:1
Active Directivity	2300-2700		7		dB
DC Supply Voltage			5.0		٧
Supply Current			55	70	mA

Outline Drawing





NOTE: When soldering the DC connections, caution must be used to avoid overheating the DC terminals. See Application Note AN-40-10

Outline Dimensions (inch)

Α	В	С	D	Ε	F	G	Н	J	K	L	M	N	Р	Q	R	S	wt.
1.20	.75	.46	1.18	.04	.17	.45	.59	.33	.21	.22	.18	1.00	.50	.35	.18	.106	grams
30.48	19.05	11.68	29.97	1.02	4.32	11.43	14.99	8.38	5.33	5.59	4.57	25.40	12.70	8.89	4.57	2.69	35.0

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.
C. The parts covered by this specification document 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

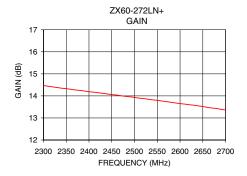
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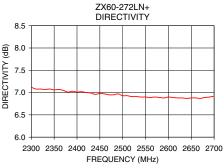
Maximum Ratings

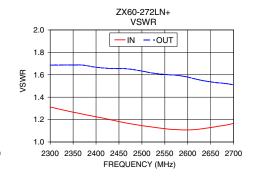
Parameter	Ratings
Operating Temperature	-40°C to 85°C Case
Storage Temperature	-55°C to 100°C
DC Voltage	5.5 V
Input RF Power (no damage)	+17 dBm
Power Consumption	400 mW

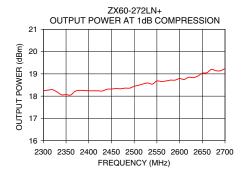
Permanent damage may occur if any of these limits are exceeded.

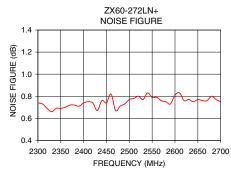
FREQUENCY	GAIN	DIRECTIVITY	VSWR	VSWR	POWER OUT @ 1dB	OUTPUT	NF
(MHz)	(dB)	(dB)	IN	OUT COMPRESSION		IP3	(dB)
			(:1)	(:1)	(dBm)	(dBm)	
2300.00	14.47	7.12	1.31	1.69	18.24	31.83	0.74
2320.00	14.41	7.08	1.29	1.69	18.29	31.42	0.69
2340.00	14.35	7.08	1.27	1.69	18.06	31.78	0.69
2360.00	14.30	7.07	1.26	1.69	18.05	32.10	0.70
2380.00	14.25	7.01	1.24	1.68	18.26	30.83	0.72
2400.00	14.19	7.01	1.23	1.67	18.24	31.89	0.74
2420.00	14.14	7.00	1.21	1.66	18.24	32.98	0.74
2440.00	14.09	6.96	1.19	1.66	18.31	29.71	0.76
2460.00	14.04	6.97	1.17	1.66	18.34	30.51	0.82
2480.00	13.98	6.95	1.16	1.65	18.36	34.00	0.71
2500.00	13.93	6.93	1.15	1.63	18.44	30.84	0.77
2520.00	13.88	6.91	1.13	1.62	18.55	30.31	0.80
2540.00	13.82	6.90	1.12	1.61	18.54	30.79	0.83
2560.00	13.77	6.89	1.11	1.60	18.66	31.57	0.79
2580.00	13.71	6.89	1.11	1.59	18.72	31.01	0.75
2600.00	13.65	6.90	1.11	1.58	18.79	31.36	0.81
2620.00	13.60	6.88	1.11	1.56	18.85	31.41	0.76
2640.00	13.55	6.87	1.12	1.54	18.90	30.90	0.75
2680.00	13.43	6.89	1.15	1.52	19.14	30.29	0.80
2700.00	13.36	6.92	1.17	1.51	19.24	31.47	0.75

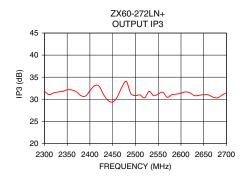












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