

Low Noise Amplifier

ZX60-242GLN+

50Ω

1710 to 2400 MHz

Features

- Ultra low noise figure, 0.85 dB typ.
- High gain, 30 dB typ.
- Output power, up to +20 dBm typ.
- Good output IP3, 36.5 dBm typ.
- Unconditionally stable
- Protected by US patent 6,790,049

Applications

- Base transceiver station, tower mounted amplifier, repeater
- WCDMA
- TD SCDMA
- PCS Rx / PCS Tx
- General purpose low noise amplifier
- Lab
- Instrumentation
- Test equipment



Case Style: GA955

Connectors	Model
SMA	ZX60-242GLN-S+

+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.	Typ.	Max.	Units
Frequency Range		1710		2400	MHz
Noise Figure	1710 - 1880		0.80	1.05	dB
	1850 - 1990		0.80	1.05	
	1990 - 2200		0.90	1.10	
	2200 - 2400		0.90	1.20	
Gain	1710 - 1880	28.0	31.0		dB
	1850 - 1990	28.0	30.5		
	1990 - 2200	26.5	29.5		
	2200 - 2400	25.5	28.0		
Gain Flatness	1710 - 1880		± 0.60	± 1.20	dB
	1850 - 1990		± 0.50	± 1.00	
	1990 - 2200		± 0.70	± 1.40	
	2200 - 2400		± 0.65	± 1.30	
Output Power at 1dB compression	1710 - 1880	18.0	20.0		dBm
	1850 - 1990	18.0	20.0		
	1990 - 2200	18.0	20.5		
	2200 - 2400	18.5	21.0		
Output third order intercept point	1710 - 1880		36		dBm
	1850 - 1990		36		
	1990 - 2200		37		
	2200 - 2400		37		
Input VSWR	1710 - 1880		1.4		:1
	1850 - 1990		1.3		
	1990 - 2200		1.2		
	2200 - 2400		1.7		
Output VSWR	1710 - 1880		1.3		:1
	1850 - 1990		1.3		
	1990 - 2200		1.5		
	2200 - 2400		1.7		
Active Directivity	1710-2400		11.5		dB
DC Supply Voltage			5.0		V
Supply Current			120	150	mA

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

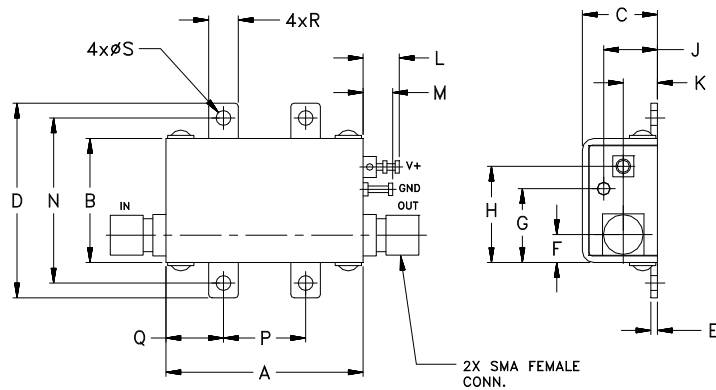


Maximum Ratings

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	825 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 terminals. See Application Note [AN-40-10](#).

Outline Dimensions (inch)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	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

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