Low Noise Amplifier

ZX60-242LN+

1710 to 2400 MHz 50Ω

Features

- · Ultra low noise figure, 0.75 dB typ.
- Output power, up to +17 dBm typ.
- Good output IP3, 33 dBm typ.
- · Low current consumption
- · Good return loss
- · 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 ZX60-242LN-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.	Тур.	Max.	Units		
Frequency Range		1710		2400	MHz		
	1710 - 1880		0.70	0.95	0.95		
Noise Figure	1850 - 1990		0.70	0.95			
Noise Figure	1990 - 2200 0.75 0.95	0.95	uБ				
	2200 - 2400		0.75	1.00			
	1710 - 1880	12.0	14.0		dB		
Gain	1850 - 1990	11.5	13.5				
daiii	1990 - 2200	10.5	12.5		ub		
	2200 - 2400	10.0	11.5				
	1710 - 1880		± 0.5	± 1.0			
Gain Flatness	1850 - 1990		± 0.3	± 0.7	± 0.7		
Gain Flatness	1990 - 2200		± 0.5	± 1.0	dB		
	2200 - 2400		± 0.4	± 0.8			
	1710 - 1880	15.0	16.5				
Output Power at 1dB compression	1850 - 1990	1850 - 1990 15.0 16.5		dD.			
Output Power at 1dB compression	1990 - 2200	15.0	16.5		dBm		
	2200 - 2400	15.0	16.5				
	1710 - 1880		32.0		dBm		
Output third order intercept point	1850 - 1990		32.5				
Output third order intercept point	1990 - 2200		33.5		ubili		
	2200 - 2400		34.5				
	1710 - 1880		1.2				
Input VSWR	1850 - 1990		1.2				
iliput vovn	1990 - 2200		1.2				
	2200 - 2400		1.2				
	1710 - 1880		1.6				
Output VSWR	1850 - 1990		1.7				
Output vovvn	1990 - 2200		1.7		:1		
	2200 - 2400		1.6				
Active Directivity	1710 - 2400		8		dB		
DC Supply Voltage			5		V		
Supply Current			40	46	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

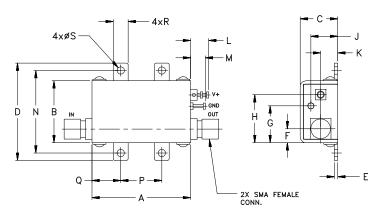


Maximum Ratings

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)	+10 dBm
Power Consumption	250 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 $\underline{\text{AN-40-10}}$.

Outline Dimensions (inch)

wt.	S	R	Q	Р	N	M	L	K	J	Н	G	F	E	D	С	В	Α
grams	.106	.18	.35	.50	1.00	.18	.22	.21	.33	.59	.45	.17	.04	1.18	.46	.75	1.20
35.0	2 60	1 57	8 80	12 70	25.40	4 57	5 50	5 33	8 38	1/ 00	11 //3	132	1 02	20 07	11 68	10.05	30 48

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