Low Noise Amplifier

ZRL-400+

 50Ω

150 to 400 MHz

Features

- High IP3, +42 dBm typ.
- Low Noise figure, 2.5 dB typ.
- Broadband flat gain response
- Internal voltage regulated
- · Over-voltage and transient protected

Applications

- High dynamic range VHF/UHF
- Mobile radio
- VHF/UHF television or radio
- · defense communications



Case Style: FJ893

Connectors Model Price Qty. SMA ZRL-400+ \$119.95 ea. (1-9)

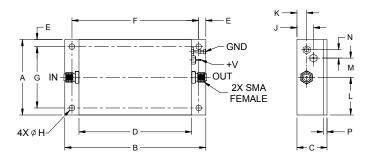
+RoHS Compliant

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		150		400	MHz	
Noise Figure	150 - 400	_	2.5	3.5	dB	
Noise i iguie	175 - 300	_	2.5	3.5		
Gain	150 - 400	27	31	_	dB	
daiii	175 - 300	28	31	_		
Gain Flatness	150 - 400	_	±0.5	±1.0	dB	
dain riatiless	175 - 300	_	±0.3	±0.5		
Output Power at 1dB compression	150 - 400	23.5	25	_	dBm	
Output Power at 10B compression	175 - 300	23.5	25	_		
Output third order intercept point ¹	150 - 400	_	+42	_	dBm	
Output third order intercept point	175 - 300	_	+42	_	abiii	
Input VSWR	150 - 400	_	1.5	_	:1	
liiput vovn	175 - 300	_	1.5	_		
Output VSWR	150 - 400	_	1.25	_	:1	
Output vovvn	175 - 300	_	1.15	_		
DC Supply Voltage ²		_	12	_	V	
Supply Current		_	450	575	mA	

Outline Drawing



Maximum Ratings

Parameter	Ratings						
Operating Temperature	-40°C to 80°C case -40°C to 60° ambient						
Storage Temperature	-55°C to 100°C						
DC Voltage	+17V						
Input RF Power (no damage)	+10 dBm						

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

Outline Dimensions (inch)

Α	В	С	D	Е	F	G	Н	J	K	L	M	N	Р	wt	
2.00	3.75	0.80	3.00	0.19	3.374	1.624	0.156	0.44	0.26	1.00	0.51	0.22	0.10 g	grams	
50.80	95.25	20.32	76.20	4.83	85.70	41.25	3.96	11.18	6.60	25.40	12.95	5.59	2.54	135	

Notes

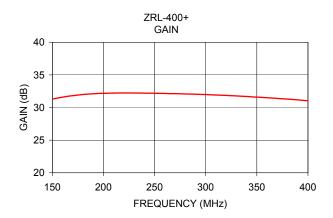
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

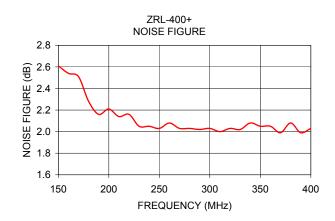
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

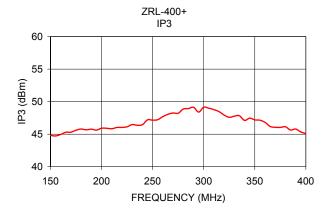
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

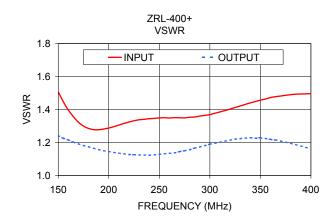


 ^{1. 1} MHz tonse spacing.
 2. Unit is internally voltage regulated for 6.5 to 17VDC input voltage range.









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