

High IP3

Low Noise Amplifier

ZRL-1200+

50Ω

650 to 1200 MHz

Features

- High IP3, +46 dBm typ.
- Low Noise figure, 2.0 dB typ.
- Broadband flat gain response
- Internal voltage regulated
- Over-voltage and transient protected

Applications

- Low noise, high dynamic range
- Analog/digital cellular
- PCS, GSM, TDMA, CDMA
- UHF television
- Driver amplifier



Case Style: FJ893

Connectors	Model	Price	Qty.
SMA	ZRL-1200+	\$119.95 ea.	(1-9)

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

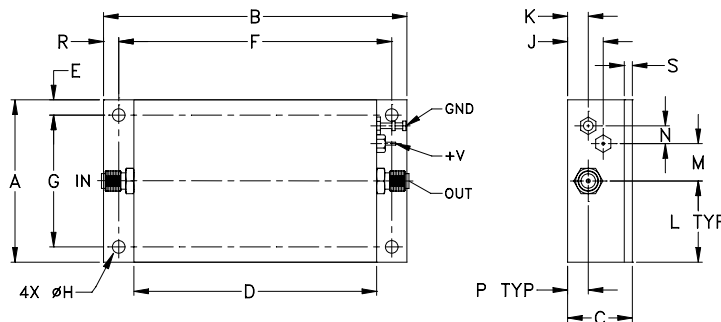
Electrical Specifications at 25°C

Parameter	Condition (MHz)	Min.	Typ.	Max.	Units
Frequency Range		650		1200	MHz
Noise Figure	650 - 1200	—	2.0	3.0	dB
	800 - 950	—	2.0	3.0	dB
Gain	650 - 1200	24	27.5	—	dB
	800 - 950	25	28	—	dB
Gain Flatness	650 - 1200	—	±0.6	±1.0	dB
	800 - 950	—	±0.4	±0.8	dB
Output Power at 1dB compression	650 - 1200	23.5	24.3	—	dBm
	800 - 950	23.5	24.3	—	dBm
Output Power at 3dB compression	650 - 1200	—	25.7	—	dBm
	800 - 950	—	25.8	—	dBm
Output third order intercept point ¹	650 - 1200	—	+46	—	dBm
	800 - 950	—	+46	—	dBm
Input VSWR	650 - 1200	—	1.20	—	:1
	800 - 950	—	1.20	—	:1
Output VSWR	650 - 1200	—	1.25	—	:1
	800 - 950	—	1.20	—	:1
Active Directivity	650 - 1200	—	18	—	dB
	800 - 950	—	18	—	dB
DC Supply Voltage ²		—	12	—	V
Supply Current		—	470	575	mA

1. 1 MHz tone spacing.

2. Unit is internally voltage regulated for 6.5 to 17VDC input voltage range.

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.

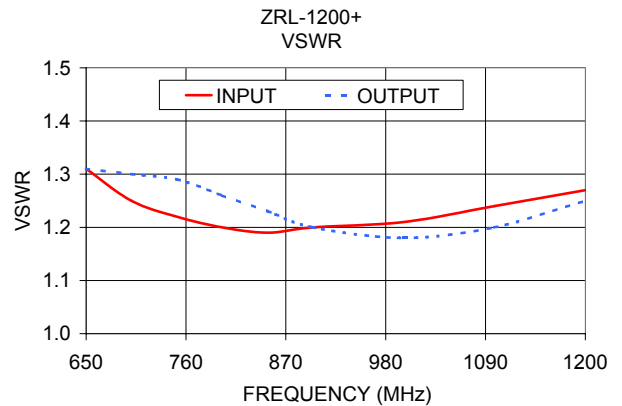
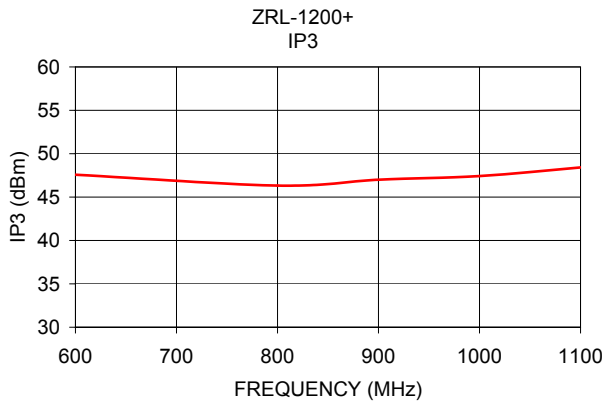
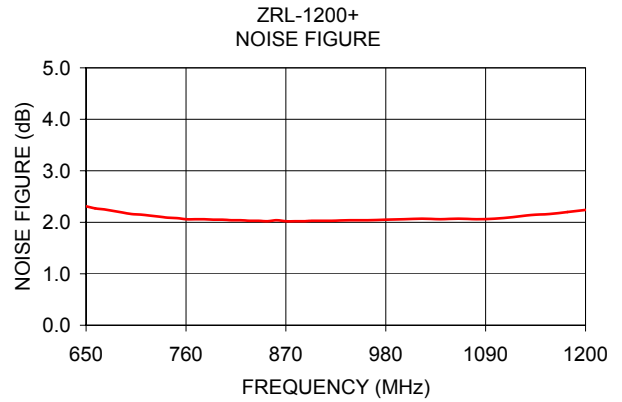
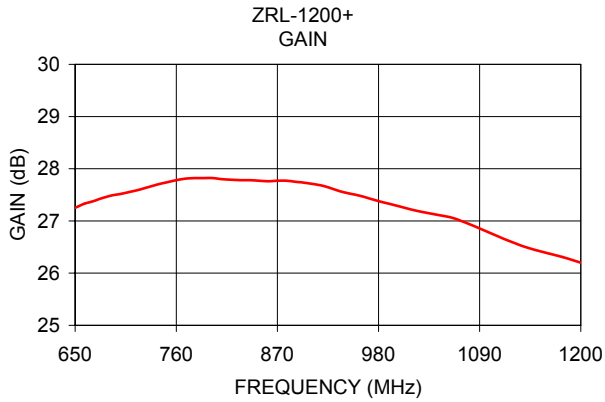
Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	wt
2.00	3.75	0.80	3.00	0.19	3.374	1.624	0.16	0.44	0.26	1.00	0.51	0.22	0.26	--	0.19	0.10	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	6.60	--	4.83	2.54	135

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