

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 in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications at T_{AMB}=25°C

MODEL NO.	FREQUENCY (MHz)		GAIN (dB)				NOISE FIGURE (dB)		MAXIMUM POWER OUTPUT (dBm)			INTERCEPT POINT (dBm) Note 1	VSWR (:1) Typ.		ACTIVE DIRECTIVITY (dB) (Isolation-Gain)	DC VOLTAGE @ Pin V+ (V) Nom. Note 2	DC OPERATING CURRENT @ Pin V+ (mA)	
	f _L	f _H	Typ.	Min.	Typ.	Max.	Typ.	Max.	Saturated at (1 dB Compr.) 3dB Compr.				In	Out			Typ.	Typ.
ZRL-1200+	650	1200	27.5	24	±0.6	±1.0	2.0	3.0	24.3	23.5	25.7	+46 IP3 Typ.	1.20	1.25	18	12	470	575
	800	950	28	25	±0.4	±0.8	2.0	3.0	24.3	23.5	25.8		1.20	1.20				

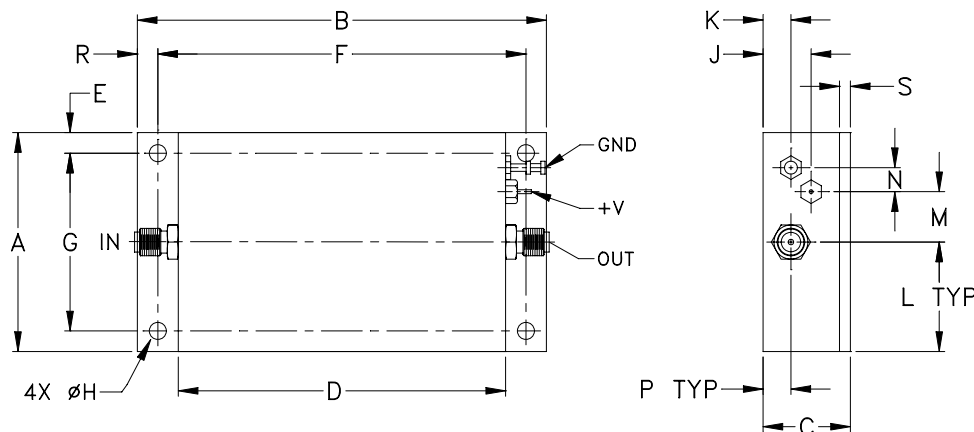
- 1MHz tone spacing
- Unit is internally voltage regulated for 6.5 to 17VDC input voltage range.

Maximum Ratings

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

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

Outline Drawing



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

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ISO 9001 ISO 14001 AS 9100 CERTIFIED

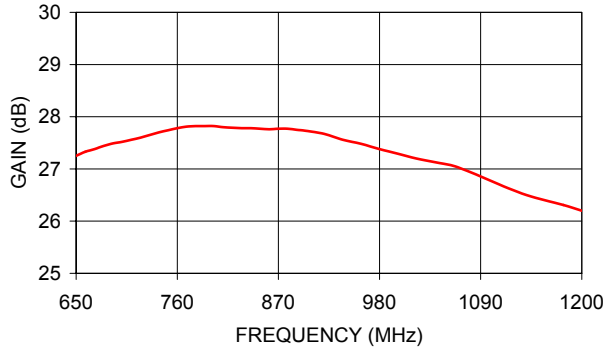
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com

IF/RF MICROWAVE COMPONENTS

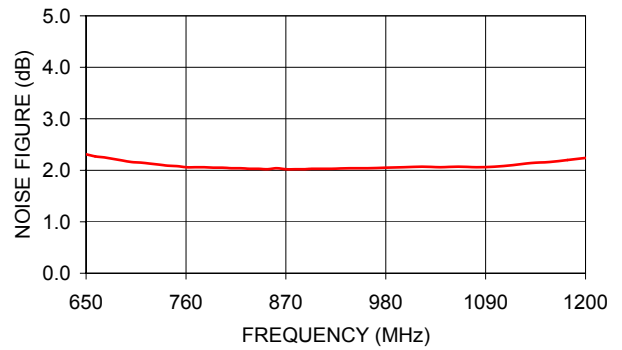
For detailed performance specs & shopping online see web site

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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.

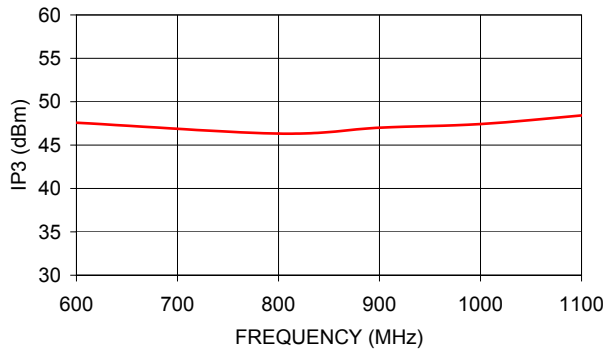
ZRL-1200+
GAIN



ZRL-1200+
NOISE FIGURE



ZRL-1200+
IP3



ZRL-1200+
VSWR

