

High IP3 Low Noise Amplifier

ZRL-2300+ ZRL-2300

50Ω 1400 to 2300 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
- PCS, UMTS, GSM, cellular, wireless data
- defense and satellite communications
- high linearity driver amplifier



CASE STYLE: FJ893

Connectors	Model	Price	Qty.
SMA	ZRL-2300(+)	\$119.95 ea.	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix identifies 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.	Typ.	Min.	Typ.		In	Out			Typ.	Typ.
ZRL-2300(+)	1400	2300	23.5	21	±0.7	±1.0	2.5	3.5	24.6	23	26	+42	1.20	1.16	21	12	500	575
	1650	2150	24	22	±0.5	±0.8	2.3	3.5	24.6	23	26	+42	1.20	1.16	20	12	500	575

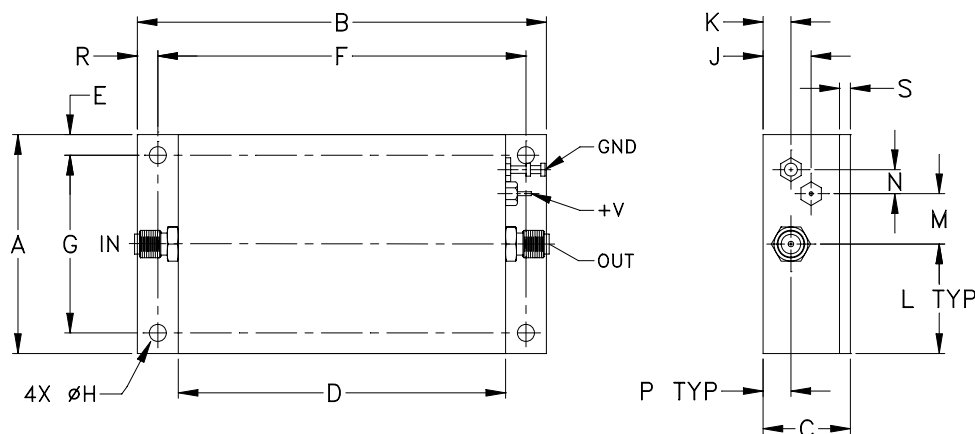
1. 1MHz tone spacing
2. Unit is internally voltage regulated for 6.5 to 17VDC input voltage range.

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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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.

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Typical Performance Data/Curves

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