

High IP3

Low Noise Amplifier

ZRL-2150+
ZRL-2150

50Ω 950 to 2150 MHz

Features

- high IP3, +33 dBm typ.
- low noise figure, 1.5 dB typ.
- broadband flat gain response
- excellent return loss, 20 dB typ.
- internal voltage regulated
- over-voltage and transient protected

Applications

- PCS, UMTS
- mobile satellite service
- baseband amp, fiber optic driver
- aeronautical and defense communications



CASE STYLE: FJ893

Connectors	Model	Price	Qty.
SMA	ZRL-2150(+)	\$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

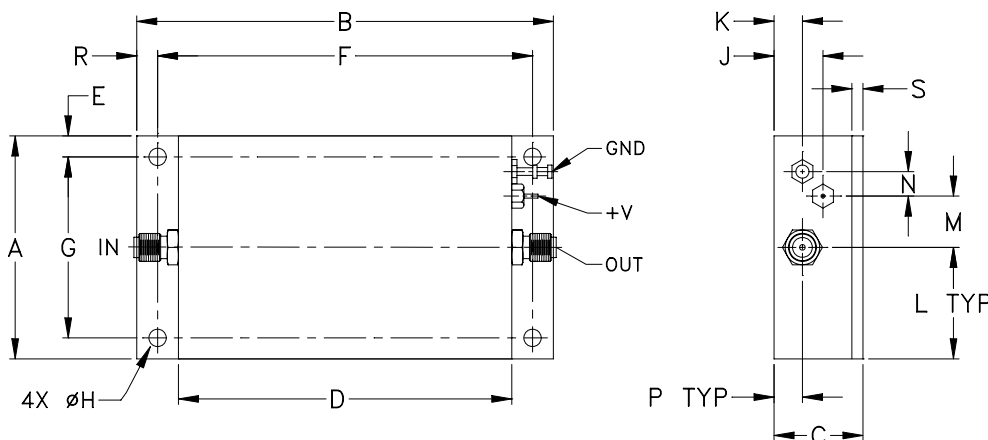
MODEL NO.	FREQUENCY (MHz)		GAIN (dB)				NOISE FIGURE (dB)		MAXIMUM POWER OUTPUT (dBm)			INTERCEPT POINT (dBm) Note 1	VSWR (:1) Typ.		ACTIVE DIRECTIVITY (dB) (Isolation-Gain) Typ.	DC VOLTAGE @ Pin V+ (V) Nom. Note 2	DC OPERATING CURRENT @ Pin V+ (mA)	
	f _L	f _H	Typ.	Min.	Typ.	Max.	Typ.	Max.	Saturated at (1 dB Compr.) 3dB Compr.				In	Out			Typ.	Typ.
ZRL-2150(+)	950	2150	25	22.5	±1.1	±1.8	1.5	2.2	22	17.5	22.5	+33	1.3	1.2	26	12	255	300
	1500	2000	25	23	±0.9	±1.5	1.3	2.0	24	22	25.2	+34	1.3	1.2	21	12	255	300

- 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

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



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



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RF/IF MICROWAVE COMPONENTS

REV. D
M111708
ZRL-2150
EDB021202
BLUE C/RS/CP/AM
080226
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Typical Performance Data/Curves

ZRL-2150+ ZRL-2150

