Low Noise Amplifier

ZRL-1150LN+ ZRL-1150LN

650 to 1400 MHz 50Ω

Features

- High IP3, +40 dBm typ.
- Low Noise figure, 0.8 dB typ.
- Broadband flat gain response
- · Internal voltage regulated
- Over-voltage and transient protected

Applications

- · Very low noise, preamplifier
- Analog/digital cellular
- PCS, GSM, TDMA, CDMA
- GPS and MAS
- · Aeronautical and defense communications

Case Style: FJ893

Connectors Model Price Qty. SMA ZRL-1150LN(+) \$119.95 ea. (1-9)

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

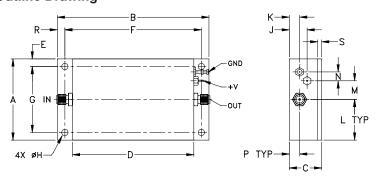
The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications at 25°C

Parameter	Condition (MHz)	Min.	Тур.	Max.	Units
Frequency Range		650		1400	MHz
Noise Figure	650 - 1400 685 - 1000		1.1 0.8	1.7 1.4	dB
Gain	650 - 1400 685 - 1000	25 27	29 32		dB
Gain Flatness	650 - 1400 685 - 1000		±2.0 ±0.5	_ ±1.0	dB
Output Power at 1dB compression	650 - 1400 685 - 1000	22 22	24 24		dBm
Output Power at 3dB compression	650 - 1400 685 - 1000		26.3 26.0		dBm
Output third order intercept point ¹	650 - 1400 685 - 1000		+40 +40		dBm
Input VSWR	650 - 1400 685 - 1000		1.25 1.20		:1
Output VSWR	650 - 1400 685 - 1000	_ _	1.20 1.25	_ _	:1
Active Directivity	650 - 1400 685 - 1000		19 17		dB
DC Supply Voltage ²		_	12	_	V
Supply Current		_	450	500	mA

- 1. 1 MHz tonse 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)

wt	S	R	Q	Р	N	M	L	K	J	Н	G	F	Ε	D	С	В	Α
grams	0.10	0.19		0.26	0.22	0.51	1.00	0.26	0.44	0.16	1.624	3.374	0.19	3.00	0.80	3.75	2.00
135	2.54	183		6.60	5.50	12.05	25.40	6.60	11 18	3.06	11.25	85.70	1 83	76.20	20.32	05.25	50.80

For detailed performance specs

ISO 9001 ISO 14001 AS 9100 CERTIFIED
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P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 934-45 IF/RF MICROWAVE COMPONENTS

