

High IP3

Low Noise Amplifier

ZRL-2400LN+
ZRL-2400LN

50Ω 1000 to 2400 MHz



Features

- high IP3, +45 dBm typ.
- low noise figure, 1.2 dB typ.
- broadband flat gain response
- internal voltage regulated
- over-voltage and transient protected

Applications

- PCS, UMTS, GSM, cellular, wireless data
- defense communications
- satellite communications

CASE STYLE: FJ893

Connectors	Model	Price	Qty.
SMA	ZRL-2400LN(+)	\$139.95 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) Note 3		MAXIMUM POWER OUTPUT (dBm) Saturated at (1 dB Compr.) 3dB Compr.			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 _u	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	IP3 Typ.	In	Out	Typ.			Typ.	Max.
ZRL-2400LN(+)	1000	2400																	
	1000	1400	31	28	±1.6	±2.0	1.2	2.0	23	21	25.3	+45	1.50	1.35	13	12	424	500	
	1400	1900	27	24	±1.8	±2.2	1.0	1.4	24	23	26.0	+44	1.15	1.25	16	12	424	500	
	1900	2400	25	23	±1.0	±2.0	1.2	1.4	24	23	26.0	+45	1.20	1.30	16	12	424	500	

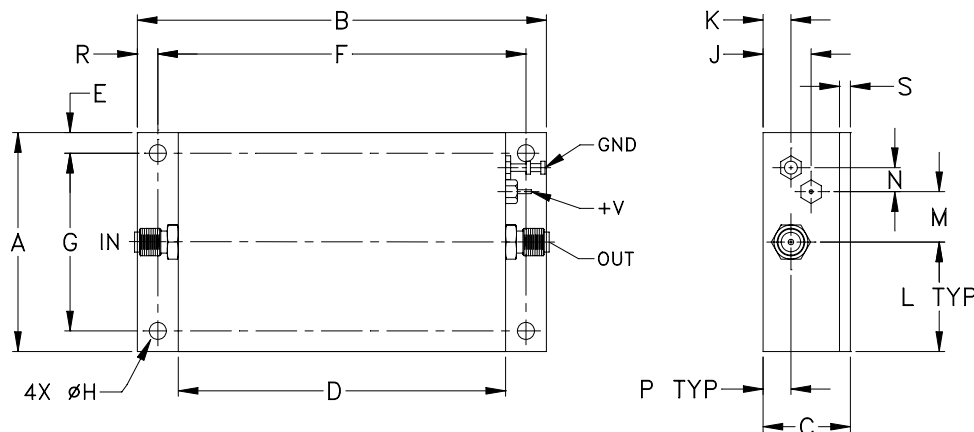
1. 1MHz tone spacing
2. Unit is internally voltage regulated for 6.5 to 17VDC input voltage range.
3. 2.2 dB max at frequency 1000-1050 MHz.

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

Mini-Circuits®
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

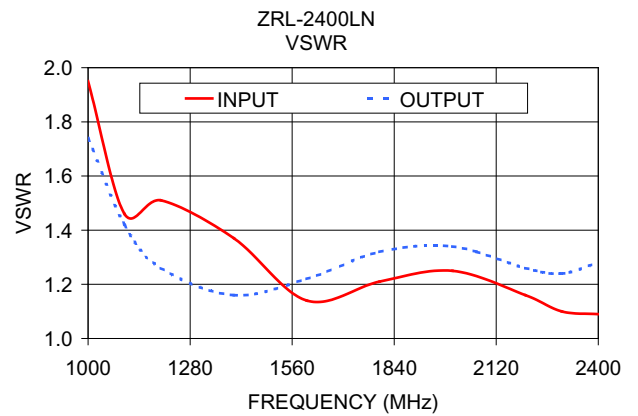
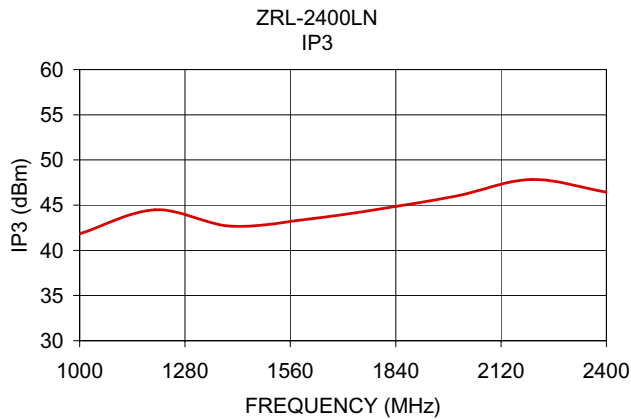
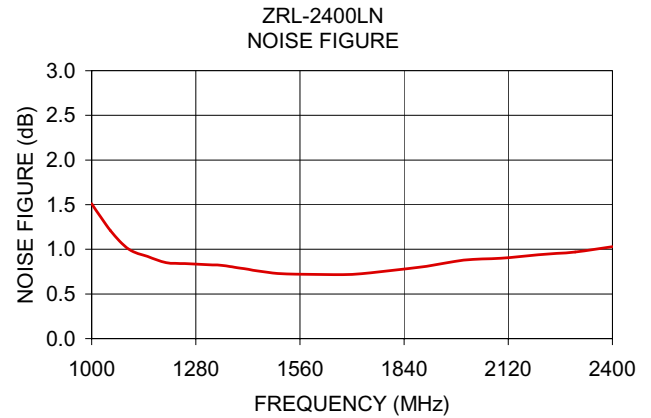
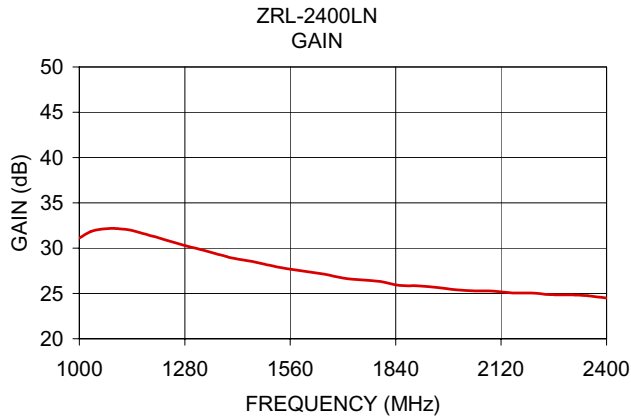
For detailed performance specs & shopping online see web site

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.

REV. F
M98898
ZRL-2400LN
EDB020608
BLUE C/TD/CP/AM
090819
Page 1 of 2

Typical Performance Data/Curves

ZRL-2400LN+ ZRL-2400LN



For detailed performance specs & shopping online see web site

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

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.