

Coaxial

Low Noise Amplifier

ZHL-0812MLN

50Ω

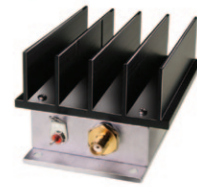
800 to 1200 MHz

Features

- very low noise figure, 1.6 dB max.
- wideband, 800 to 1200 MHz
- high dynamic range

Applications

- UHF
- cellular
- PCS/GSM



Case Style: FJ893

Connectors	Model	Price	Qty.
SMA	ZHL-0812MLN	Contact Sales Dept.	

NON-CATALOG

Electrical Specifications

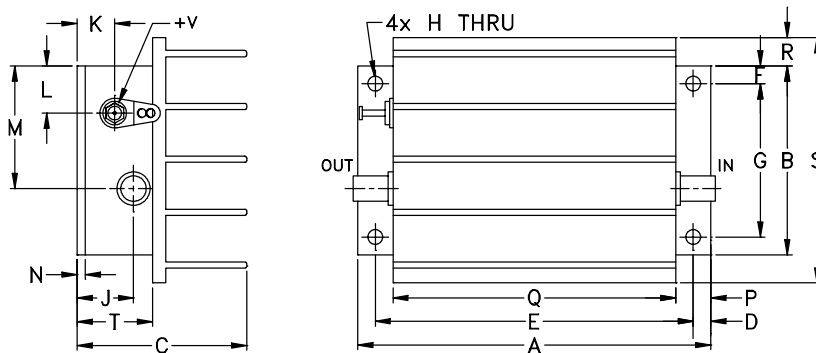
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Frequency Range		800		1200	MHz
Noise Figure	800-1200	—	—	1.6	dB
Gain	800-1200	28	—	—	dB
Gain Flatness	800-1200	—	—	±1.0	dB
Output Power at 1dB compression	800-1200	—	+20	—	dBm
Output third order intercept point	800-1200	—	+33	—	dBm
Input VSWR	800-1200	—	—	2.5	:1
Output VSWR	800-1200	—	—	2.5	:1
DC Supply Voltage		—	15	—	V
Supply Current		—	—	300	mA

Noise Figure specified at room temperature, increases to 2.3 dB max. at +65°C

Open load is not recommended, potentially can cause damage.

With no load derate max input power by 20 dB

Outline Drawing



Maximum Ratings

Parameter	Ratings
Operating Temperature	-20°C to 65°C
Storage Temperature	-55°C to 100°C
DC Voltage	17V
Input RF Power (no damage)	0 dBm

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

Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	wt
3.75	2.00	1.80	.19	3.375	.19	1.625	.144	.50	.40	.50	1.30	.10	.38	3.00	.30	2.60	.80	grams
95.25	50.80	45.72	4.83	85.73	4.83	41.28	3.66	12.70	10.16	12.70	33.02	2.54	9.65	76.20	7.62	66.04	20.32	220.0



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

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/MCStore/terms.jsp.

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& shopping online see web site

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FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	12V	15V	16V	12V	15V	16V	IN	OUT		
800.00	32.01	32.53	32.51	36.23	36.79	45.05	1.57	1.80	1.32	22.16
844.44	31.87	32.39	32.38	31.70	34.82	34.73	1.52	1.77	1.35	22.37
888.88	31.91	32.39	32.36	46.06	40.30	39.61	1.51	1.74	1.40	21.95
933.33	31.60	32.10	32.08	32.05	35.42	31.82	1.48	1.72	1.43	22.82
977.77	31.70	32.15	32.11	32.61	33.50	30.62	1.41	1.69	1.44	22.51
1022.22	31.46	31.93	31.90	30.83	34.90	32.15	1.31	1.60	1.40	23.21
1066.66	31.51	31.94	31.90	31.87	33.51	33.80	1.22	1.62	1.36	23.24
1111.11	31.30	31.72	31.68	32.34	32.94	34.17	1.22	1.59	1.33	23.22
1155.55	31.13	31.55	31.50	34.00	33.17	33.74	1.38	1.56	1.33	23.53
1200.00	30.90	31.27	32.20	33.22	31.39	31.70	1.64	1.53	1.36	23.83

