Plug-In Low Noise Amplifier

50Ω

10 to 500 MHz

Features

- low noise, 3.7 dB typ.
- high IP3, +30 dB typ.
- hermetic case
- protected by US Patent, 6,943,629

Applications

- VHF/UHF
- · military, hi-rel applications





CASE STYLE: A06 PRICE: \$22.20 ea. Qty. (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.

-54°C to 85°C

+12.5V Max.

-55°C to 100°C

Maximum Ratings

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

Operating Temperature

Storage Temperature

DC Voltage

Low Noise Amplifier Electrical Specifications

MODEL NO.	FREQUENCY (MHz)				GAIN (dB)		MAXIN POW (dBr	ER	INTERCEPT POINT (dBm)	VSWR (:1) Typ.		DC POWER	
					Flatne	ess Max. Total	Output	Input	IP3			Volt (V)	Current (mA)
	fL	f _u	Тур.	Min.	m	Range	(1 dB Compr.)	(no damage)	Тур.	In	Out	Nom.	Max.
MAN-1HLN <mark>(+)</mark>	10	500	3.7	10	±0.5	±0.8	+15	+15	+30	1.8	1.8	12	70

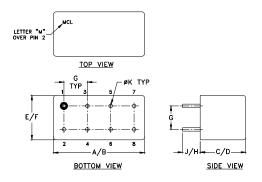
m = mid range [2 fL to fU/2]

Open load is not recommended, potentially can cause damage. With no load derate max input power by 20 dB

Pin Connections

RF IN	1
RF OUT	8
DC	5
GROUND	2,3,4,6
CASE GROUND	2,3,4,6
NOT USED	7

Outline Drawing



Outline Dimensions (^{inch})

А	В	С	D	Е	F	G	н	J	к	wt
770	.800	.285	.310	.370	.400	.200	.20	.14	.031	grams
558	20.32	7.239	7.874	9.398	10.16	5.08	5.08	3.556	0.7874	5.2



For detailed performance specs & shopping online see web site

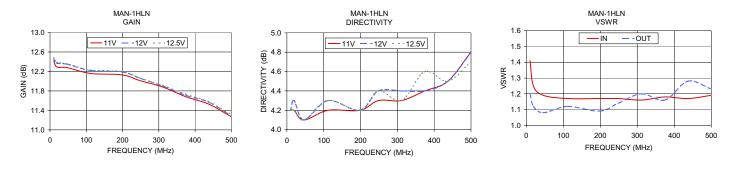
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicipation of the provides ACTUAL Data Instantly at minici IF/RF MICROWAVE COMPONENTS

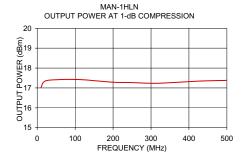
Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's and terms and conditions (collective), "Standard Terms"; Pjurchasers 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp.

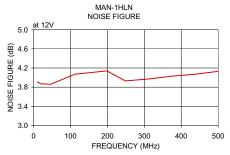
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Typical Performance Data/Curves

FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	11V	12V	12.5V	11V	12V	12.5V	IN	OUT	12V	12V
10.00	12.42	12.46	12.48	4.20	4.20	4.20	1.41	1.20	3.91	17.02
19.30	12.29	12.37	12.39	4.20	4.30	4.20	1.25	1.12	3.87	17.33
46.50	12.28	12.35	12.36	4.10	4.10	4.10	1.19	1.08	3.86	17.41
111.80	12.16	12.22	12.23	4.20	4.30	4.30	1.17	1.12	4.07	17.42
198.50	12.13	12.19	12.20	4.20	4.20	4.20	1.17	1.09	4.14	17.29
248.70	12.01	12.06	12.06	4.30	4.40	4.40	1.17	1.14	3.93	17.27
311.50	11.88	11.90	11.91	4.30	4.40	4.30	1.16	1.20	3.97	17.23
374.40	11.68	11.71	11.73	4.40	4.40	4.60	1.18	1.16	4.03	17.29
437.20	11.53	11.57	11.58	4.50	4.50	4.50	1.17	1.28	4.07	17.35
500.00	11.27	11.29	11.32	4.80	4.80	4.70	1.19	1.23	4.13	17.38







MAN-1HLN+ **MAN-1HLN**



For detailed performance specs & shopping online see web site Page 2 of 2

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