Plug-In

Low Noise Amplifier

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

 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

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Low Noise Amplifier Electrical Specifications

	MODEL FREQUENCY (MHz)		NOISE FIGURE (dB)	GAIN (dB)		MAXIN POW (dBr	ER	INTERCEPT POINT (dBm)	VSWR (:1) Typ.		DC POWER			
				_			ess Max.	Output	Input	IP3		_	Volt (V)	Current (mA)
		fL	fυ	Тур.	Min.	m	Range	(1 dB Compr.)	(no damage)	Тур.	In	Out	Nom.	Max.
MAN-1H	LN (+)	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

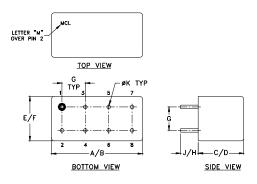
Pin Connections

1
8
5
2,3,4,6
2,3,4,6
7

Maximum Ratings

Operating Temperature	-54°C to 85°C
Storage Temperature	-55°C to 100°C
DC Voltage	+12.5V Max.
D	tot e e

Outline Drawing



Outline Dimensions (inch)

wt	K	J	Н	G	F	Е	D	С	В	Α
grams	.031	.14	.20	.200	.400	.370	.310	.285	.800	.770
5.2	0.7874	3.556	5.08	5.08	10.16	9.398	7.874	7.239	20.32	19.558

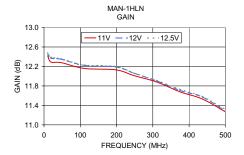
Notes
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

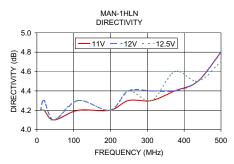
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

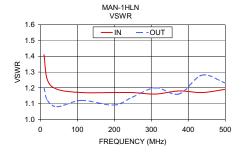
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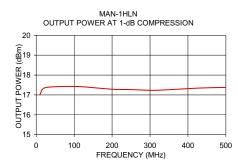


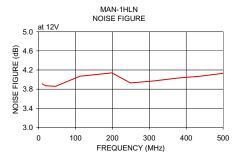
FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			vs (:		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	11V	12V	12.5V	11V	12V	12.5V	IN	OUT	12V	12V
10.00	12.42	12.46	12.48	4.20	4.20	4.20	1.41	1.20	3.91	17.02
19.30	12.29	12.37	12.39	4.20	4.30	4.20	1.25	1.12	3.87	17.33
46.50	12.28	12.35	12.36	4.10	4.10	4.10	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











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