Coaxial

ow Noise Amplifier

ZFL-500HLN+

 50Ω

10 to 500 MHz

Features

- low noise, 3.8 dB typ.
- high IP3, +30 dBm typ.



Generic photo used for illustration purposes only

CASE STYLE: Y460

Connectors Model

SMA ZFL-500HLN+ BRACKET (OPTION "B")

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

Applications

- VHF/UHF
- · small signal amplifier
- · communications system

Low Noise Amplifier Electrical Specifications

MODEL NO.	FREQUENCY (MHz)		NOISE FIGURE (dB)	GAIN (dB)		MAXIMUM POWER (dBm)		INTERCEPT POINT (dBm)	VSWR (:1) Typ.		DC POWER	
			Тур.	Min.	Flatness Mex. Total Range	Output (1 dB Compr.)	Input (no damage)	IP3 Typ.	ln	Out	Volt (V) Nom.	Curren (mA) Max.
FL-500HLN+	10	500	3.8	19	±0.4	+16	+15	+30	2.0	2.0	15	110

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

Maximum Ratings

-20°C to 71°C Operating Temperature -55°C to 100°C

Storage Temperature

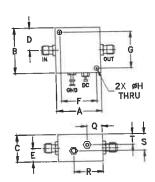
+17V Max. DC Voltage

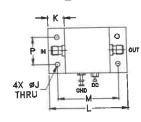
Permanent damage may occur if any of these limits are exceeded.

32 mW -> 1.2 V (into 5052)

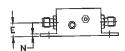
Outline Drawing







OPTION "B"



Outline Dimensions (inch)

H J K L M .125 .125 .46 2.18 1.688 3.18 3.18 11.68 55.37 42.88 N P Q R S T .06 .750 .50 .80 .45 .29 1.52 19.06 12.70 20.32 11.43 7.37

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.

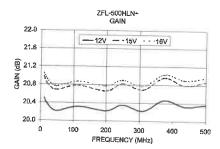
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

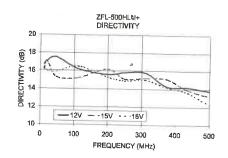
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

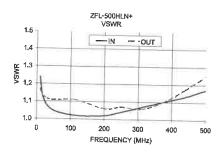


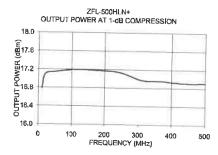
BEV D M151107 ZFL-500HLN+ 151005 Page 1 of 2

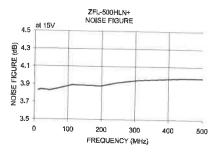
FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR (dBm)	
	12V	15 V	16V	12V	15V	16V	IN	OUT	15V	15V	
10.00	20.50	20.97	21.05	16.70	16.20	16.30	1.24	1.17	3.83	10.70	
19.30	20.37	20.82	20.92	17.10	17.00	16.00	1.12	1.13		16.78	
46.50	20.21	20.68	20.76	17.50	15.30	15.90	1.05	1.11	3.84	17.09	
111.80	20.31	20.78	20.87	16.20	15.20	16,50	1.02	1.11	3.83	17.14	
198.50	20.22	20.66	20.77	15.60		15.30	1.02	1.06	3.89 3.88	17.19 17.17	
248.70	20.35	20.82	20.90	15.80	15.10	14.90	1.04	1.07			
311.50	20.22	20.69	20.77	15.80	15.20	15.00	1.07	1.07	3.92	17.13	
374.40	20.46	20.96	21.03	14.30		14.20		1.06	3.95	16.97	
437.20	20.32	20.79	20.90	14.20	13.90	13.60	1.10	1.10	3.96	16.95	
500.00	20.36	20.87	20.96	13.80	13.20		1.13	1.17	3.97	16.91	
			40.00	13.00	13.20	12.30	1.17	1.25	3.97	16.91	











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