Coaxial Low Noise Amplifier

50Ω

0.1 to 500 MHz

Features

- very low noise, 2.9 dB typ.
- good VSWR, 1.5 :1 typ.
- protected by US Patent, 6,943,629

Applications

- VHF/UHF
- small signal amplifier
- communications system

ZFL-500LN+ ZFL-500LN



CASE STYLE: Y460											
Connectors	Model	Price	Qty.								
SMA	ZFL-500LN+	\$79.95	(1-9)								
BNC	ZFL-500LN-BNC(+)	\$84.95	(1-9)								
BRACKET	(OPTION "B")	\$2.50	(1+)								

+ 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.

Low Noise Amplifier Electrical Specifications

NO. (MHz) FI		NOISE GAIN FIGURE (dB) (dB)			MAXIN POW (dBr	ER	INTERCEPT POINT (dBm)	VSWR (:1) Typ.		DC POWER		
					Flatness Max. Total	Output	Input	IP3			Volt (V)	Current (mA)
	fL	fu	Тур.	Min.	Range	(1 dB Compr.)	(no damage)	Тур.	In	Out	Nom.	Max.
ZFL-500LN (+)	0.1	500	2.9	24	±0.5	+5	+5	+14	1.5*	1.6	15	60

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

*VSWR 1.6:1 max. from 0.1 to 0.2 MHz.

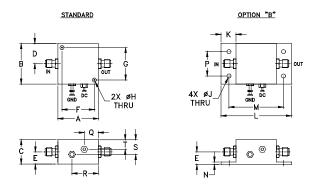
Open load is not recommended, potentially can cause damage. With no load derate max input power by 20 dB

Maximum Ratings

-20°C to 71°C
-55°C to 100°C
+17V Max.

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

Outline Drawing



Outline Dimensions (^{inch}_{mm})

А	В	С	D	Е	F	G	н	J	К	L	М	Ν	Р	Q	R	S	т	wt.
1.25	1.25	.75	.63	.36	1.000	1.000	.125	.125	.46	2.18	1.688	.06	.750	.50	.80	.45	.29	grams
31.75	31.75	19.05	16.00	9.14	25.40	25.40	3.18	3.18	11.68	55.37	42.88	1.52	19.05	12.70	20.32	11.43	7.37	38



For detailed performance specs

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 performances of this part are entitled to the rights and benefits contained herein. For a full statement of the Standard Terms'). Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms'). Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms'). Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms'). Purchasers of this part is provided to the rights and benefits contained therein. For a full statement of the Standard Terms'). Purchasers of this part is provided to the rights and benefits contained there is parts and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

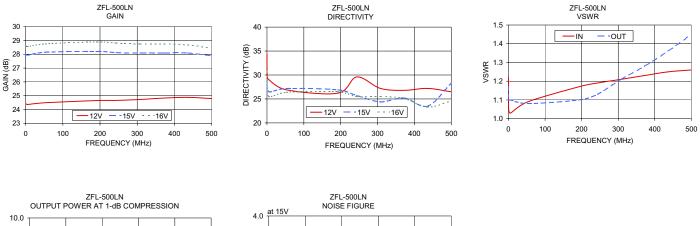
IF/RF MICROWAVE COMPONENTS

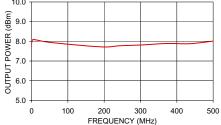
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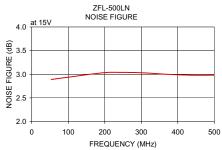


Typical Performance Data/Curves

FREQUENCY (MHz)		GAIN (dB)		DI	RECTIV (dB)	ΙΤΥ		WR :1)	NOISE FIGURE (dB)	POUT at 1 dB COMPF (dBm)	
	12V	15V	16V	12V	15V	16V	IN	OUT	15V	15V	
0.10	24.30	27.80	28.40	34.40	27.80	30.80	1.22	1.17	_	7.74	
0.60	24.41	27.98	28.60	30.00	28.80	28.40	1.05	1.10	_	7.97	
5.40	24.37	27.94	28.56	29.00	26.50	25.50	1.03	1.10	_	8.09	
53.30	24.49	28.15	28.75	26.90	27.20	26.40	1.09	1.08	2.89	7.94	
192.40	24.65	28.21	28.89	26.20	26.90	26.50	1.17	1.10	3.03	7.72	
243.60	24.66	28.12	28.81	29.60	25.70	25.50	1.19	1.13	3.04	7.78	
307.70	24.73	28.10	28.75	27.20	24.40	25.50	1.21	1.21	3.03	7.82	
371.80	24.83	28.11	28.74	26.80	25.20	25.10	1.23	1.28	3.00	7.89	
435.90	24.88	28.09	28.68	27.20	23.50	23.30	1.25	1.36	2.98	7.88	
500.00	24.79	27.89	28.44	26.50	28.30	24.60	1.26	1.45	2.98	8.01	









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