Low Noise Amplifier

ZFL-500LN+

 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



CASE STYLE: Y460

Model **SMA** ZFL-500LN+ **BNC** ZFL-500LN-BNC+ **BRACKET (OPTION "B")**

+RoHS Compliant

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

Low Noise Amplifier Electrical Specifications

MODEL NO.	FREQUENCY (MHz)				GAIN (dB)	MAXIN POW (dBi	ER	INTERCEPT POINT (dBm)	VSWR (:1) Typ.		DC POWER	
					Flatness Max.			.ma			Volt	Current
					Total	Output	Input	IP3			(V)	(mA)
	fL	fυ	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]

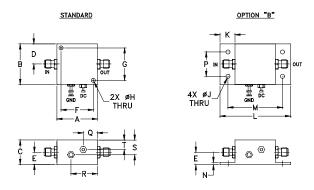
Open load is not recommended, potentially can cause damage. With no load derate max input power by 20 dB

Maximum Ratings

Operating Temperature	-20°C to 71°C
Storage Temperature	-55°C to 100°C
DC Voltage	+17V Max.

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

Outline Drawing



Outline Dimensions (inch mm)

Α	В	С	D	E	F	G	Н	J	K	L	M	N	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

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.

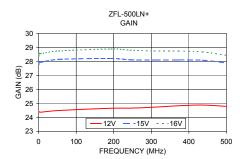
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

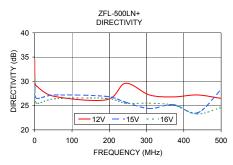
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive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

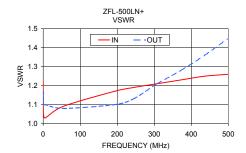


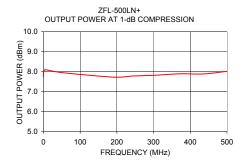
^{*}VSWR 1.6:1 max. from 0.1 to 0.2 MHz.

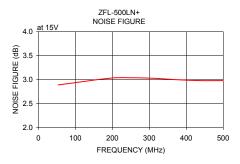
FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)				SWR :1)	NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)	
	12V	15V	16V	12V	15V	16V	IN	OUT	15V	15V	
0.10	24.30	27.80	28.40	34.40	27.80	30.80	1.22	1.17	_	7.74	
0.60	24.41	27.98	28.60	30.00	28.80	28.40	1.05	1.10	_	7.97	
5.40	24.37	27.94	28.56	29.00	26.50	25.50	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	











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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Mini-Circuits:

ZFL-500LNB+ ZFL-500LN+ ZFL-500LNB-BNC+ ZFL-500LN-BNC+