Low Noise Amplifier

ZFL-500LN+ 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

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

MODEL NO.	FREQUENCY (MHz)		NOISE FIGURE (dB)		GAIN (dB)	MAXIMUM POWER (dBm)		POWER		INTERCEPT POINT (dBm)		R (:1) /p.		DC DWER
					Flatness Max.						Volt	Current		
					Total	Output	Input	IP3			(V)	(mA)		
	fL	f _U	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]

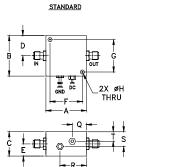
Open load is not recommended, potentially can cause damage. With no load derate max input power by 20 dB

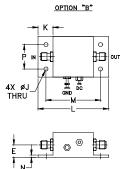
Maximum Ratings

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)

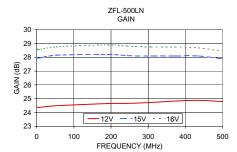
K L M .46 2.18 1.688 .125 .36 1.000 1.000 .125 .750 .06 .50

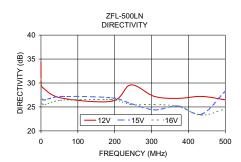


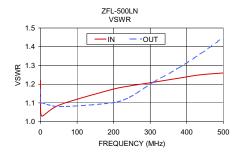
For detailed performance specs

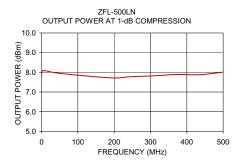
^{*}VSWR 1.6:1 max. from 0.1 to 0.2 MHz.

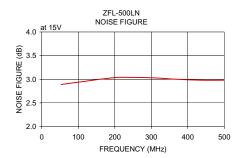
FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)	
	12V	15V	16V	12V	15V	16V	IN	OUT	15V	15V	
0.10	24.30	27.80	28.40	34.40	27.80	30.80	1.22	1.17	_	7.74	
0.60	24.41	27.98	28.60	30.00	28.80	28.40	1.05	1.10	_	7.97	
5.40	24.37	27.94	28.56	29.00	26.50	25.50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











For detailed performance specs