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# Coaxial Low Noise Amplifier

## ZFL-500HLN+ ZFL-500HLN

50Ω 10 to 500 MHz



### Features

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

### Applications

- VHF/UHF
- small signal amplifier
- communications system

CASE STYLE: Y460			
Connectors	Model	Price	Qty.
SMA	ZFL-500HLN(+)	\$99.95	(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)		INTERCEPT POINT (dBm)	VSWR (:1) Typ.		DC POWER	
	$f_L$	$f_U$		Typ.	Min.	Total Range	Output (1 dB Compr.)		Input (no damage)	IP3 Typ.	In	Out
ZFL-500HLN(+)	10	500	3.8	19	±0.4	+16	+15	+30	2.0	2.0	15	110

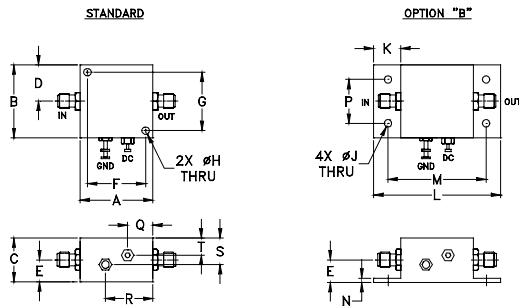
m = mid range [2 fL to fU/2]

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

### Maximum Ratings

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

### Outline Drawing



### Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	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

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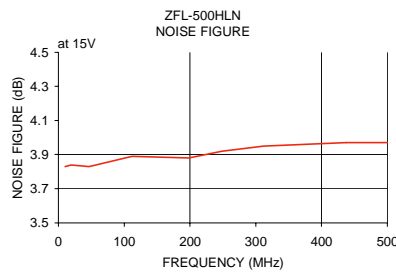
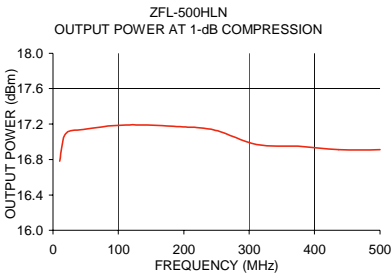
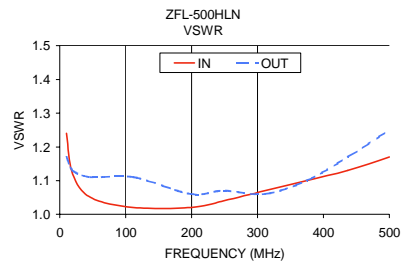
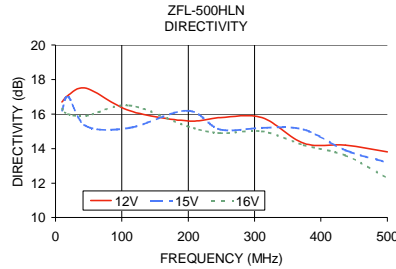
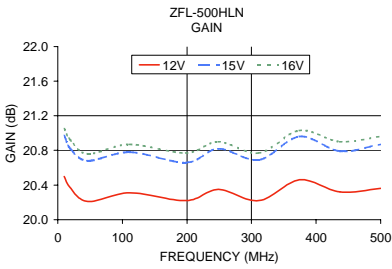


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RF/IF MICROWAVE COMPONENTS

REV. A  
M110047  
ZFL-500HLN  
070323  
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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		
10.00	20.50	20.97	21.05	16.70	16.20	16.30	1.24	1.17	3.83	16.78
19.30	20.37	20.82	20.92	17.10	17.00	16.00	1.12	1.13	3.84	17.09
46.50	20.21	20.68	20.76	17.50	15.30	15.90	1.05	1.11	3.83	17.14
111.80	20.31	20.78	20.87	16.20	15.20	16.50	1.02	1.11	3.89	17.19
198.50	20.22	20.66	20.77	15.60	16.20	15.30	1.02	1.06	3.88	17.17
248.70	20.35	20.82	20.90	15.80	15.10	14.90	1.04	1.07	3.92	17.13
311.50	20.22	20.69	20.77	15.80	15.20	15.00	1.07	1.06	3.95	16.97
374.40	20.46	20.96	21.03	14.30	15.10	14.20	1.10	1.10	3.96	16.95
437.20	20.32	20.79	20.90	14.20	13.90	13.60	1.13	1.17	3.97	16.91
500.00	20.36	20.87	20.96	13.80	13.20	12.30	1.17	1.25	3.97	16.91



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