

# Coaxial Low Noise Amplifier

## ZFL-1000LN

50 0.1 to 1000 MHz

### Features

- wideband, 0.1 to 1000 MHz
- low noise, 2.9 dB typ.
- protected by US Patent, 6,943,629



CASE STYLE: Y460

Connectors	Model	Price	Qty.
SMA	ZFL-1000LN	\$89.95	(1-9)
BRACKET (OPTION "B")		\$2.50	(1+)

### Applications

- VHF/UHF
- cellular
- small signal amplifier

### 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-1000LN	0.1	1000	2.9	20	±0.5	+3	+5	+14	1.5	2.0	15	60

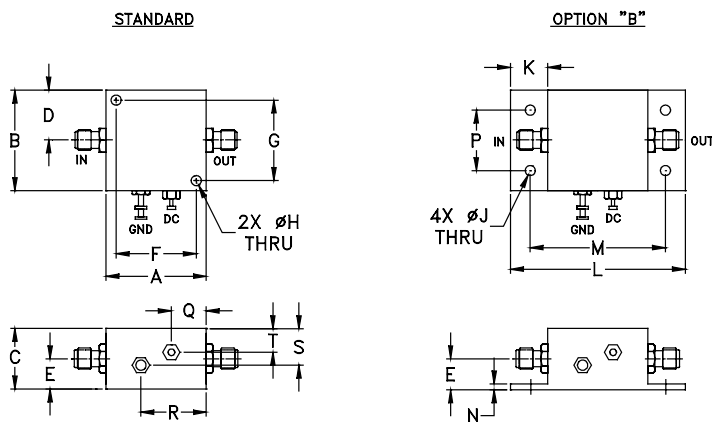
m = mid range [2  $f_L$  to  $f_U/2$ ]

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



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: [www.minicircuits.com](http://www.minicircuits.com)

RF/IF MICROWAVE COMPONENTS

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		
0.10	19.66	23.31	23.96	29.30	27.50	27.90	1.28	1.19	—	4.76
0.70	19.90	23.56	24.24	28.80	27.10	26.90	1.11	1.13	—	4.95
7.90	19.89	23.55	24.21	28.60	27.10	27.20	1.11	1.13	—	5.02
95.70	19.91	23.50	24.14	28.50	27.20	26.70	1.11	1.14	2.98	4.91
384.70	19.69	23.21	23.81	25.90	24.80	24.10	1.07	1.26	3.07	6.08
487.20	20.16	23.42	23.97	25.00	23.50	22.80	1.08	1.30	3.09	6.60
615.40	20.48	23.49	24.02	22.80	21.30	21.30	1.09	1.36	3.08	7.14
743.60	20.81	23.65	24.11	21.30	19.80	19.30	1.05	1.45	3.05	7.47
871.80	20.79	23.50	23.96	19.50	18.20	17.40	1.03	1.57	3.07	7.43
1000.00	20.84	23.32	23.66	18.10	16.60	16.20	1.06	1.71	3.11	7.00

