

# Low Noise Amplifier

## ZFL-1000LN+

50Ω 0.1 to 1000 MHz



CASE STYLE: Y460

### Features

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

### Applications

- VHF/UHF
- cellular
- small signal amplifier

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

**+ RoHS compliant in accordance with EU Directive (2002/95/EC)**

The +Suffix has been added in order to identify 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 <sub>L</sub>	f <sub>U</sub>		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<sub>L</sub> to f<sub>U</sub>/2]

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

### Maximum Ratings

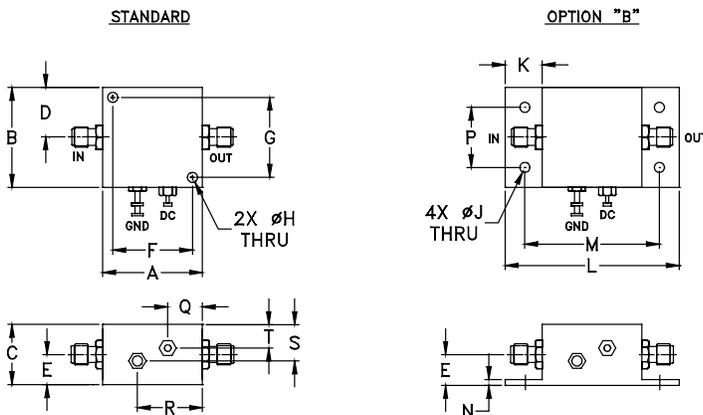
Operating Temperature -20°C to 71°C

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)

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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For detailed performance specs & shopping online see web site

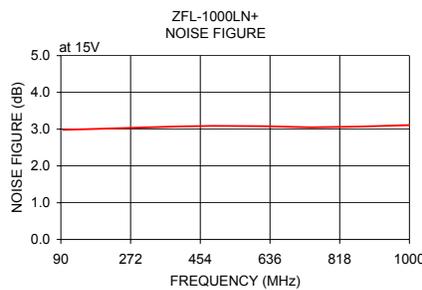
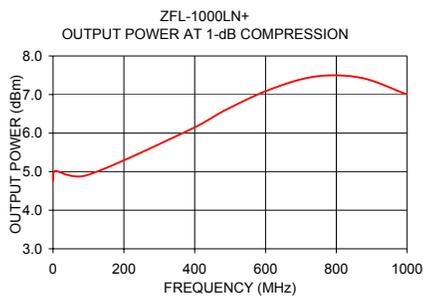
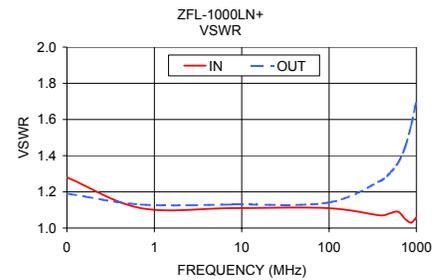
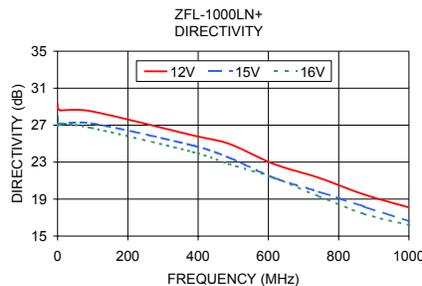
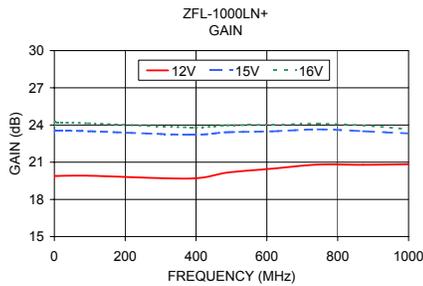
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IF/RF MICROWAVE COMPONENTS

# Typical Performance Data/Curves

# ZFL-1000LN+

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



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