# Low Noise Amplifier

# **ZFL-1000LN+**

 $50\Omega$ 

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

# **Applications**

- VHF/UHF
- cellular
- · small signal amplifier



CASE STYLE: Y460

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.	NO. (MHz) FI		NOISE FIGURE (dB)		GAIN (dB)	MAXIN POW (dBr	ER	INTERCEPT POINT (dBm)		R (:1) /p.		DC )WER
					Flatness Max.	Output	Input	IP3			Volt (V)	Current (mA)
	f <sub>L</sub>	f <sub>U</sub>	Тур.	Min.	Range	(1 dB Compr.)	(no damage)	Typ.	In	Out	Nom.	Max.
ZFL-1000LN+	0.1	1000	2.9	20	±0.5	+3	+5	+14	1.5	2.0	15	60

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

Open load is not recommended, potentially can cause damage.

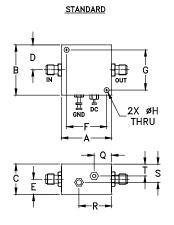
With no load derate max input power by 20 dB

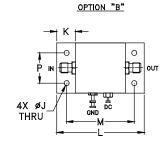
# Maximum Ratings

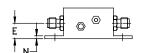
Operating Temperature	-20°C to 71°C
Storage Temperature	-55°C to 100°C
DC Voltage	+17V Max

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

# **Outline Drawing**







# Outline Dimensions (inch )

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

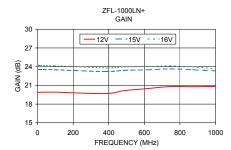


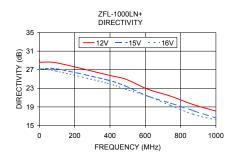
For detailed performance specs

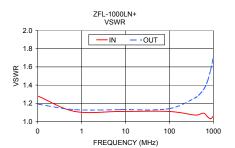
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine

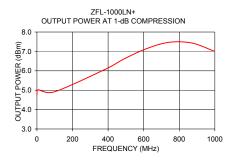
Provides ACTUAL Data Instantly at minicipouits.com IF/RF MICROWAVE COMPONENTS

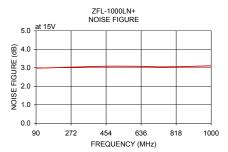
FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)				WR 1)	NOISE FIGURE (dB)	POUT at 1 dB COMPR (dBm)	
	12V	15V	16V	12V	15V	16V	IN	OUT	15V	15V	
0.10	19.66	23.31	23.96	29.30	27.50	27.90	1.28	1.19	_	4.76	
0.70	19.90	23.56	24.24	28.80	27.10	26.90	1.11	1.13	_	4.95	
7.90	19.89	23.55	24.21	28.60	27.10	27.20	1.11	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	











For detailed performance specs