Coaxial Low Noise Amplifier

0.1 to 1000 MHz

50Ω

Features

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

Applications

- VHF/UHF
- cellular
- · small signal amplifier

ZFL-1000LN+



Case Style: Y460						
Connectors	Model	Price	Qty.			
SMA	ZFL-1000LN+	\$89.95 ea.	(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.

Electrical Specifications

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Units
Frequency Range		0.1		1000	MHz
Noise Figure	0.1-1000	_	2.9	-	dB
Gain	0.1-1000	20	-	-	dB
Gain Flatness	0.1-1000	_	-	±0.5	dB
Output Power at 1dB compression	0.1-1000	_	+3	_	dBm
Output third order intercept point	0.1-1000	_	+14	-	dBm
Input VSWR	0.1-1000	_	1.5	_	:1
Output VSWR	0.1-1000	_	2.0	—	:1
DC Supply Voltage		_	15	_	V
Supply Current		_	-	60	mA

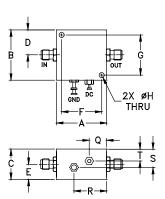
Open load is not recommended, potentially can cause damage.

With no load derate max input power by 20 dB

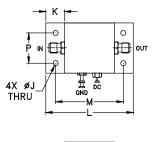
Outline Drawing

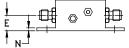
31.75 31.75 19.05 16.00

STANDARD



OPTION "B"





Maximum Ratings

Parameter	Ratings				
Operating Temperature	-20°C to 71°C				
Storage Temperature	-55°C to 100°C				
DC Voltage	17V				
Input RF Power (no damage)	+5 dBm				
Permanent damage may occur if any of these limits are exceeded.					

Outline Dimensions (inch) C .75 D E F G .36 1.000 1.000 K L M .46 2.18 1.688 В н Ν Р Q A 1.25 J 1.25 .63 .125 .125 .06 .750 .50 .80 .45 19.05 12.70 20.32 11.43 3.18 11.68 55.37

3.18

9.14 25.40 25.40



.29 grams

For detailed performance spece & shopping online see web site

ISO 9001 ISO 14001 AS 9100 CERTIFIED P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine 2 Provides ACTUAL Data Instantity at minicipality.com IF/RF MICROWAVE COMPONENTS

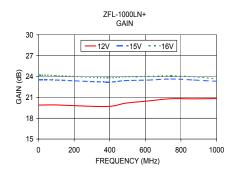
42.88 1.52

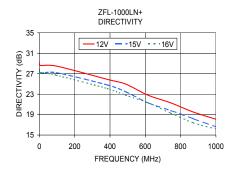
> BEV C M121747 ZFL-1000LN+ 100128 Page 1 of 2

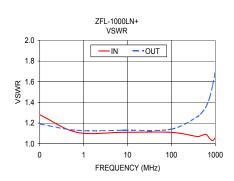
Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's and measurement instructions. 4. The parts covered by this specification sheet are subject to Mini-Circuit's and measurement instructions. 4. The parts covered by this specification sheet are subject to Mini-Circuit's and measurement instructions. 4. The parts covered by this specification sheet are subject to Mini-Circuit's control (Circuit's versite at the wave) and the exclusive rights and benefits contained therein. For a full statement of the Standard Terms and conditions collectively. "Standard terms covered here subject to Mini-Circuit's control (Circuit's versite at www.minicircuits.com/MCLStore/terms.jsp.

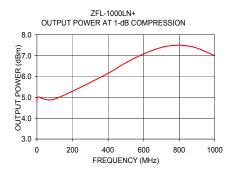
Typical Performance Data/Curves

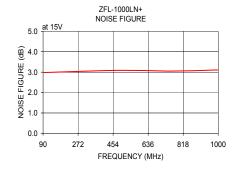
FREQUENCY (MHz)	GAIN (dB)		DIRECTIVITY (dB)		VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)		
	12V	15V	16V	12V	15V	16V	IN	OUT	15V	15V
0.10	19.66	23.31	23.96	29.30	27.50	27.90	1.28	1.19	_	4.76
0.70	19.90	23.56	24.24	28.80	27.10	26.90	1.11	1.13	_	4.95
7.90	19.89	23.55	24.21	28.60	27.10	27.20	1.11	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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ZFL-1000LN+