Coaxial Amplifier

50 Ω Low Power 0.05 to 500 MHz

Features

- wideband, 0.05 to 500 MHz
- rugged, shielded case
- low noise, 5.3 dB typ.
- protected by US Patent, 6,943,629

Applications

- instrumentation
- lab use
- VHF/UHF

ZFL-500+ ZFL-500



SMA version shown CASE STYLE: Y460

Connectors	Model	Price	Qty.
SMA	ZFL-500(+)	\$69.95	(1-9)
BNC	ZFL-500-BNC	\$74.95	(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.

4	Amplifier	Electrical	Specific	ations	

MODEL NO.				MAXIMUM POWER (dBm)			IAMIC NGE	(:	WR 1) /p.	DC POWER		
	fL	fu	Min.	Flatness Max.	Output (1 dB Compr.)	Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (mA) Max.
ZFL-500(+)	0.05	500	20	±1.0	+9	+5	5.3	+18	1.9	1.9	15	80

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

Maximum Ratings

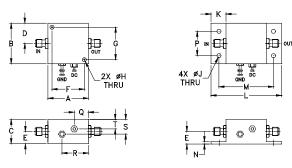
Operating Temperature	-20°C to 71°C
Storage Temperature	-55°C to 100°C
DC Voltage	+17V Max.
Dermonant domage may acquir if any	of these limits are eveneded

Permanent damage may occur if any of these limits are exceeded

Outline Drawing

STANDARD

OPTION "B"



Outline Dimensions (^{inch}_{mm})

A	В	С	D	E	F	G	н	J	K	L	M	N	P	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 & shopping online see web site

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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 applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's applicable established test performance criteria and measurement instructions. The parts covered by this specification sheet are subject to Mini-Circuit's and terms "Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp.

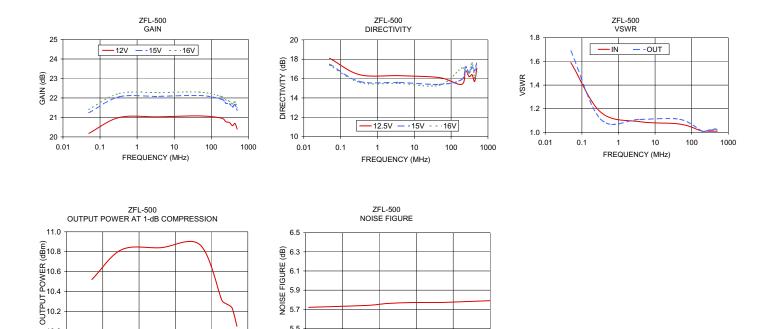
-Circuits

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Typical Performance Data/Curves



FREQUENCY (MHz)		GAIN (dB)		D	IRECTIV (dB)	ΙΤΥ	(SWR :1) 5V	NOISE FIGURE (dB)	POUT at 1 dB COMPR (dBm)	
	12V	15V	16V	12V	15V	16V	IN	OUT	15V	15V	
0.05	20.18	21.24	21.41	18.10	17.50	17.40	1.59	1.69	_	10.52	
0.33	21.00	22.06	22.23	16.40	15.70	15.60	1.17	1.11	_	10.82	
3.90	21.03	22.08	22.27	16.30	15.60	15.50	1.09	1.11	_	10.84	
47.90	21.08	22.13	22.30	16.10	15.40	15.30	1.07	1.11	5.72	10.87	
192.30	20.96	21.93	22.07	15.40	15.90	17.10	1.01	1.01	5.74	10.31	
243.60	20.79	21.74	21.90	16.80	17.20	16.80	1.01	1.01	5.76	10.28	
307.70	20.74	21.70	21.84	16.20	16.60	16.60	1.01	1.02	5.77	10.26	
371.80	20.58	21.55	21.70	16.40	17.20	17.60	1.01	1.02	5.77	10.23	
435.90	20.69	21.65	21.80	15.70	16.80	16.10	1.01	1.03	5.78	10.14	
500.00	20.40	21.36	21.52	17.10	17.70	16.70	1.01	1.02	5.79	10.05	



224 316 FREQUENCY (MHz)

408

500

5.5

100

10 FREQUENCY (MHz) 1000

40

132

10.0

0.01

0.1

For detailed performance specs & shopping online see web site

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