# Coaxial Amplifier

### 50 $\Omega$ 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**

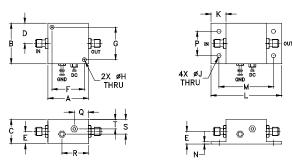
Operating Temperature	-20°C to 71°C
Storage Temperature	-55°C to 100°C
DC Voltage	+17V Max.
Dermonant domage may acquir if any	of these limits are eveneded

Permanent damage may occur if any of these limits are exceeded

#### **Outline Drawing**

STANDARD

OPTION "B"



#### Outline Dimensions (<sup>inch</sup><sub>mm</sub>)

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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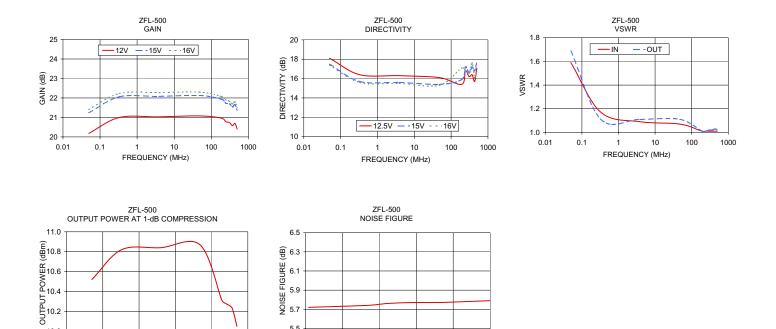
-Circuits

REV. A M125292 ZFL-500 091111 Page 1 of 2

## 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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