Coaxial

Amplifier

ZFL-500+
ZFL-500

50Ω Low Power 0.05 to 500 MHz

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.

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

Amplifier Electrical Specifications

MODEL NO.	FREQUENCY (MHz)		GAIN (dB)		MAXIMUM POWER (dBm)		DYNAMIC RANGE		VSWR (:1) Typ.		DC POWER	
	f_L	f_U	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

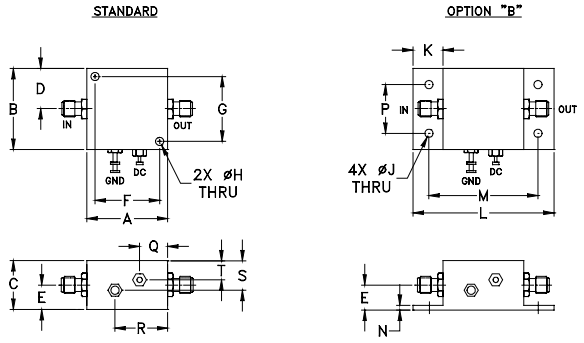
Open load is not recommended, potentially can cause damage.
With no load derate max input power by 20 dB

Maximum Ratings

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

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

Typical Performance Data/Curves

FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1) 15V		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