

# Coaxial Amplifier

50Ω Low Power 0.2 to 750 MHz

## ZFL-750+ ZFL-750



CASE STYLE: Y460

### Features

- wideband, 0.2 to 750 MHz
- rugged shielded case
- low noise figure, 6 dB typ.
- protected by US Patent, 6,943,629

### Applications

- VHF/UHF
- lab use
- instrumentation

Connectors	Model	Price	Qty.
SMA	ZFL-750(+)	\$74.95 ea.	(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.

### 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-750(+)	0.2	750	18	±0.55	+9*	+5	6.0	+18	1.5	2.0	15	90

\* +7dBm from 500 to 750 MHz

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

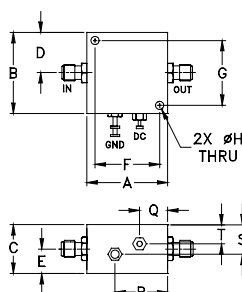
Storage Temperature -55°C to 100°C

DC Voltage +17V Max.

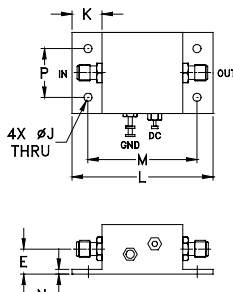
Permanent damage may occur if any of these limits are exceeded.

### Outline Drawing

STANDARD



OPTION "B"



### 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

**Mini-Circuits**  
ISO 9001 ISO 14001 AS 9100 CERTIFIED

For detailed performance specs  
& shopping online see web site

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 [minicircuits.com](http://minicircuits.com)

IF/RF MICROWAVE COMPONENTS

**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-Circuits standard limited warranty and terms and conditions (collectively, "Standard 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-Circuits' website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp).

REV. A  
M126830  
ZFL-750  
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Page 1 of 2

## 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		
0.20	18.30	19.78	20.01	22.90	22.20	22.00	1.14	1.10	—	10.39
1.00	18.36	19.85	20.08	23.90	22.90	22.60	1.10	1.08	—	10.50
9.30	18.38	19.86	20.10	23.70	22.60	22.50	1.11	1.09	—	10.61
83.50	18.38	19.84	20.07	23.10	22.10	21.90	1.11	1.09	6.17	10.55
288.60	18.57	19.79	20.00	22.70	22.30	20.70	1.10	1.19	6.22	10.14
365.50	18.55	19.74	19.97	22.40	22.10	20.40	1.11	1.23	6.25	10.07
461.60	18.44	19.64	19.87	22.60	20.60	20.80	1.12	1.32	6.25	9.94
557.70	18.66	19.88	20.07	21.80	20.40	19.70	1.14	1.40	6.20	9.87
653.90	18.87	20.06	20.29	22.10	19.80	20.30	1.17	1.54	6.13	9.54
750.00	18.98	20.20	20.39	19.40	19.30	19.50	1.18	1.69	6.09	9.26

