

Coaxial Amplifier

ZFL-750+

50Ω Low Power 0.2 to 750 MHz

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



CASE STYLE: Y460

Connectors	Model
SMA	ZFL-750+
BRACKET (OPTION "B")	

+RoHS Compliant

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

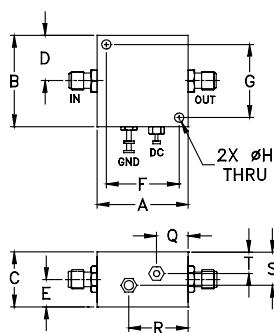
Storage Temperature -55°C to 100°C

DC Voltage +17V Max.

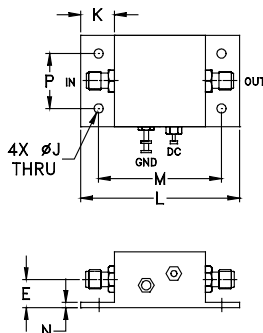
Permanent damage may occur if any of these limits are exceeded.

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

Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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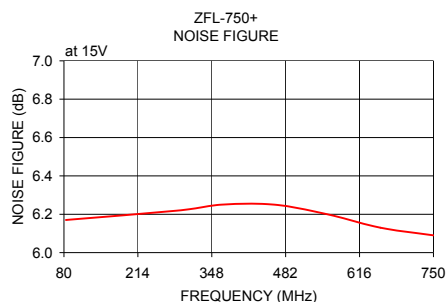
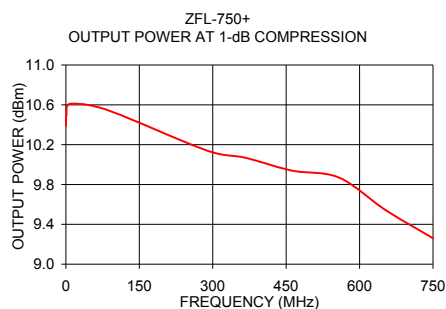
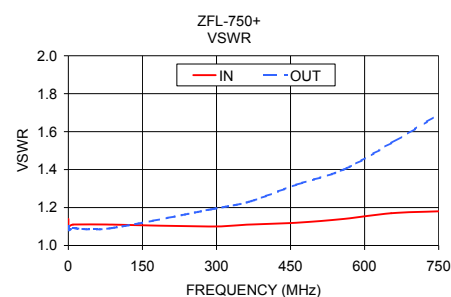
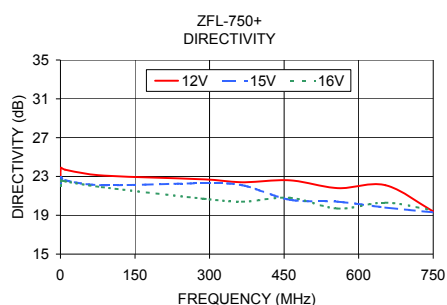
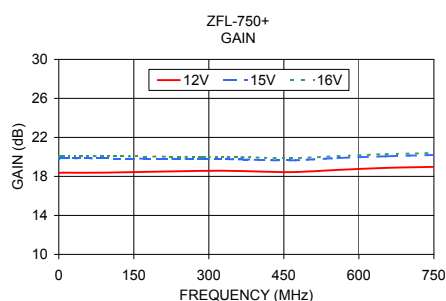
www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

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ZFL-750+
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Typical Performance Data/Curves

ZFL-750+

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



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