

Coaxial Amplifier

ZFL-2AD

50Ω High Isolation 2 to 1000 MHz

Features

- wideband, 2 to 1000 MHz
- hermetic, shielded case

Applications

- VHF/UHF
- receivers
- two-tone, 3rd order IM testing
- cellular
- laboratory use



CASE STYLE: Y460

Connectors	Model	Price	Qty.
SMA	ZFL-2AD	\$83.95	(1-9)
BRACKET (OPTION "B")		\$2.50	(1+)

Amplifier Electrical Specifications

MODEL NO.	FREQUENCY (MHz)		GAIN (dB)			MAXIMUM POWER (dBm)			DYNAMIC RANGE		VSWR (:1) Typ.		ACTIVE DIRECTIVITY* (dB)				DC POWER	
	f_L	f_U	Min.	m	Flatness Max. Total Range	Output (1 dB Compr.) L	U	Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	L Typ.	Min.	U Typ.	Min.	Volt (V) Nom.	Current (mA) Max.
ZFL-2AD	2	1000	9	±0.4	±0.5	-2	-3.5	+10	6.5	+14	2.0	2.0	24	19	19	14	15	22

*Active Directivity(dB)= Isolation (dB)- Gain (dB)

**Above 1 GHz, -5 dBm min.

Open load is not recommended, potentially can cause damage.

With no load derate max input power by 20 dB

L= low range (f_L to $f_U/2$) m= mid range ($2f_L$ to $f_U/2$) U= upper range ($f_U/2$ to f_U)

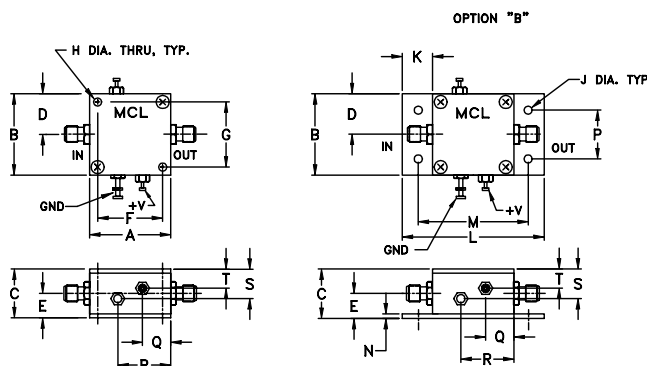
Maximum Ratings

Operating Temperature -20°C to 71°C

Storage Temperature -55°C to 100°C

DC Voltage +16V Max.

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K
1.25	1.25	.75	.63	.36	1.000	1.000	.125	.125	.46
31.75	31.75	19.05	16.00	9.14	25.40	25.40	3.18	3.18	11.68
L	M	N	P	Q	R	S	S	wt.	
2.18	1.688	.06	.750	.50	.80	.45	.29	grams	38
55.37	42.88	1.52	19.05	12.70	20.32	11.43	7.37		



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Mini-Circuits ISO 9001 & ISO 14001 Certified

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M98087
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Page 1 of 2

Typical Performance Data/Curves

ZFL-2AD

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		
2.00	6.66	10.75	11.25	26.80	26.90	27.30	1.47	1.73		0.40
6.50	6.92	10.99	11.49	25.90	26.30	26.60	1.45	1.65		0.28
31.50	6.97	10.99	11.47	25.70	25.90	26.40	1.45	1.64	5.94	0.05
152.20	7.06	11.01	11.49	25.10	25.20	25.50	1.45	1.66	5.89	0.03
385.80	7.19	11.05	11.52	22.90	22.60	22.60	1.50	1.76	5.85	0.07
488.20	7.23	11.01	11.45	22.00	21.40	21.30	1.52	1.82	5.90	0.02
616.20	7.33	11.10	11.56	20.70	19.90	20.00	1.57	1.86	6.02	0.01
744.10	7.41	11.19	11.65	19.70	18.70	18.70	1.62	1.92	6.15	0.02
872.10	7.62	11.46	11.93	18.60	17.50	17.40	1.68	1.92	7.14	0.34
1000.00	7.76	11.56	12.02	17.80	16.70	16.70	1.71	1.89	6.31	0.56

