

Coaxial Amplifier

ZFL-1000VH

50Ω Medium Power 10 to 1000 MHz

Features

- wideband, 10 to 1000 MHz
- low noise, 4.5 dB typ.
- high IP3, +38 dBm typ.

Applications

- cellular
- VHF/UHF
- test equipment



CASE STYLE: SS98

Connectors	Model	Price	Qty.
SMA	ZFL-1000VH	\$229.00	(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.		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-1000VH	10	1000	20	±1.0	+25	+15	4.5	+38	2.0*	2.5	15	320

* Input VSWR 2:1 Max. increasing below 20 MHz to 2.25:1 max. at 10 MHz

Open load is not recommended, potentially can cause damage.

With no load derate max input power by 20 dB

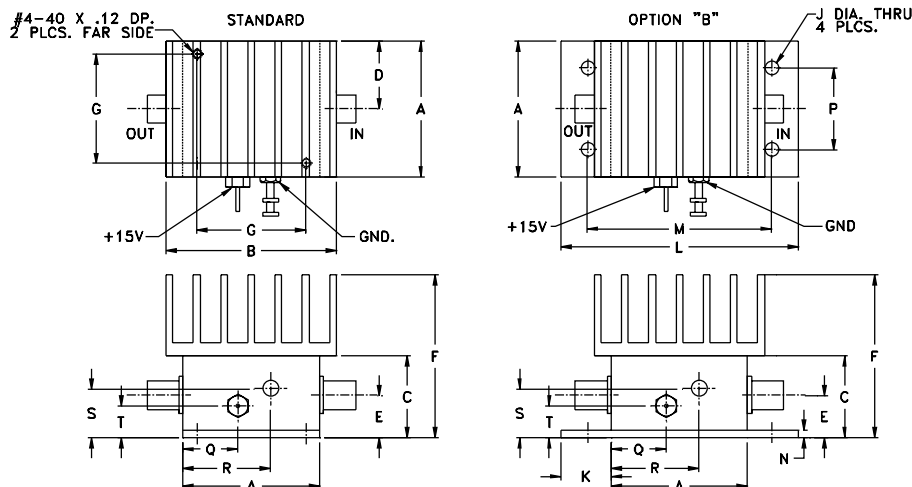
Maximum Ratings

Operating Temperature -20°C to 71°C

Storage Temperature -55°C to 100°C

DC Voltage +17V Max.

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	
1.25	1.56	.75	.63	.39	1.50	1.000	--	.125	
31.75	39.62	19.05	16.00	9.91	38.10	25.40	--	3.18	
K	L	M	N	P	Q	R	S	T	wt
.46	2.18	1.688	.07	.750	.50	.80	.45	.29	grams
11.68	55.37	42.88	1.78	19.05	12.70	20.32	11.43	7.37	85.0



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Mini-Circuits ISO 9001 & ISO 14001 Certified

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Typical Performance Data/Curves

ZFL-1000VH

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		
10.00	21.30	21.45	21.46	19.10	19.40	19.30	1.29	1.86	4.70	26.78
17.20	21.25	21.45	21.47	19.00	19.30	18.70	1.18	1.74	4.68	27.09
38.80	21.28	21.49	21.52	18.80	18.90	18.80	1.11	1.70	4.61	27.16
87.60	21.36	21.56	21.60	18.80	19.00	18.60	1.09	1.69	4.62	27.15
197.60	21.40	21.60	21.65	18.60	18.50	18.60	1.10	1.62	4.60	27.25
365.40	21.44	21.68	21.73	18.00	17.80	17.90	1.13	1.46	4.76	27.69
441.50	21.46	21.72	21.77	17.50	17.50	17.30	1.13	1.37	4.82	27.74
517.70	21.48	21.74	21.81	16.90	17.10	17.30	1.13	1.29	4.87	27.50
568.50	21.44	21.72	21.79	17.00	16.70	17.00	1.12	1.26	4.90	27.38
619.20	21.45	21.75	21.82	16.70	16.50	16.80	1.11	1.25	4.94	27.14
695.40	21.45	21.75	21.83	16.30	16.30	16.30	1.09	1.28	5.00	27.04
771.50	21.49	21.80	21.89	15.60	15.70	15.50	1.08	1.35	5.09	26.93
847.70	21.63	21.96	22.04	14.80	15.10	15.10	1.06	1.44	5.24	26.89
923.80	21.87	22.22	22.31	14.30	14.10	14.20	1.06	1.57	5.40	26.85
1000.00	21.89	22.28	22.38	13.40	13.30	13.30	1.11	1.92	5.57	26.47

