

Coaxial Amplifier

50Ω Medium Power 10 to 2000 MHz

ZFL-2000

Features

- wideband, 10 to 2000 MHz
- high gain, 20 dB min.
- unconditionally stable
- protected by US Patent, 6,943,629

Applications

- instrumentation
- communication
- lab use



CASE STYLE: SS98

Connectors	Model	Price	Qty.
SMA	ZFL-2000	\$219.00	(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-2000	10	2000	20	±1.5	+16*	+5	7.0	+25	2.0	2.0	15	120

*+15 dBm below 1000 MHz.

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

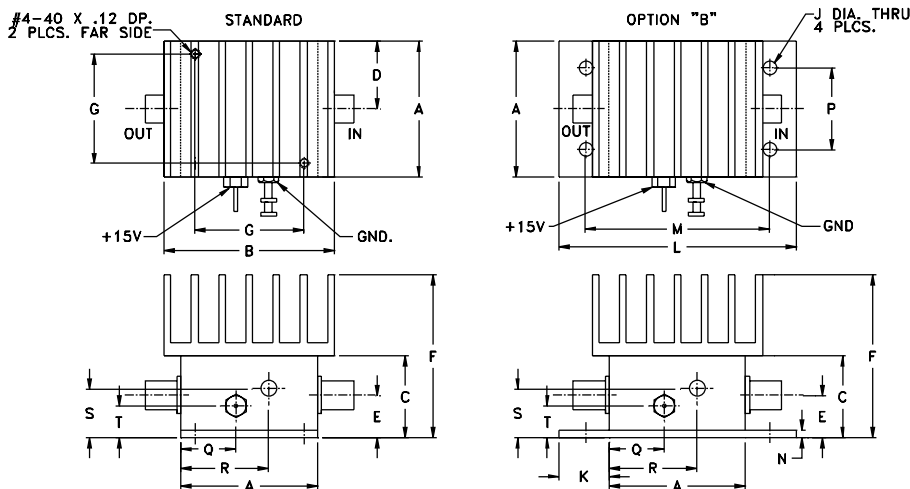
Maximum Ratings

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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Typical Performance Data/Curves

ZFL-2000

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	20.67	21.23	21.35	17.50	16.70	16.80	1.65	1.78	5.52	15.80
19.10	20.87	21.42	21.53	16.80	16.40	16.60	1.62	1.44	5.24	16.11
50.50	20.82	21.38	21.49	17.10	16.80	16.60	1.62	1.30	4.28	15.83
133.40	20.79	21.34	21.45	17.00	16.50	16.20	1.60	1.30	3.96	15.95
352.30	20.77	21.30	21.41	16.10	15.80	15.80	1.56	1.33	4.14	16.30
724.40	21.03	21.53	21.64	14.50	13.90	13.90	1.43	1.35	4.23	16.76
877.40	21.07	21.56	21.65	13.80	13.30	13.00	1.37	1.27	4.28	16.72
1030.50	20.97	21.46	21.55	13.00	12.60	12.60	1.31	1.19	4.39	16.69
1132.60	20.85	21.37	21.47	12.90	12.30	12.30	1.29	1.16	4.44	16.60
1234.60	20.76	21.27	21.37	12.50	12.40	12.40	1.30	1.21	4.49	16.73
1387.70	20.56	21.06	21.14	12.20	11.90	12.10	1.43	1.36	4.59	16.74
1540.80	20.50	20.96	21.02	11.60	11.60	11.50	1.63	1.54	4.78	16.74
1693.80	20.68	21.11	21.17	10.20	10.50	10.50	1.79	1.61	4.90	16.99
1846.90	20.87	21.32	21.40	8.60	9.10	9.10	1.77	1.43	4.99	16.99
2000.00	20.86	21.38	21.47	7.50	7.80	8.10	1.47	1.07	5.30	16.80

