Coaxial

Amplifier

ZFL-1000VH2

50Ω Medium Power 10 to 1000 MHz

Features

- wideband, 10 to 1000 MHz
- low noise, 5 dB typ.
- high gain, 28 dB typ.
- protected by US Patent, 6,943,629

Applications

- cellular
- VHF/UHF
- communication systems
- instrumentation

ZFL-1000VH2X

ZFL-1000VH2

CASE STYLE: SS98

Connectors	Model	Price	Qty.
SMA	ZFL-1000VH2	$249.00 ea.	(1-9)
BRACKET (OPTION "B")		$2.50	(1+)
SMA	ZFL-1000VH2X	$239.00 ea.	(1-9)

Amplifier Electrical Specifications

MODEL NO.	FREQUENCY (MHz)		GAIN (dB)			MAXIMUM POWER (dBm)		DYNAMIC RANGE		VSWR (:1) Typ.		DC POWER	
	f_L	f_U	Typ.	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-1000VH2	10	1000	28	26	±1.0	+25	+15	5.0	+38	2.0	2.5	15	320
ZFL-1000VH2X*	10	1000	28	26	±1.0	+25	+15	5.0	+38	2.0	2.5	15	320

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

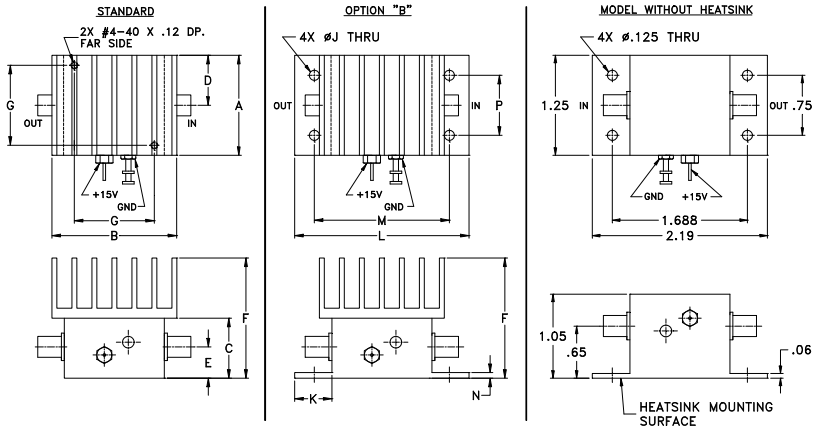
To order without heat sink, add suffix X to model number. Alternative heat sinking and heat removal must be provided by the user to limit maximum temperature to 71°C, in order to ensure proper performance. For reference, this requires thermal resistance of user's external heat sink to be 8°C/W Max.

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



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	wt*
1.25	1.56	.75	.63	.39	1.50	1.000	--	.125	.46	2.19	1.688	.06	.750	grams
31.75	39.62	19.05	16.00	9.91	38.10	25.40	--	3.18	11.68	55.63	42.88	1.52	19.05	85.0

*70 grams with heat sink

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	15V	15V
10.00	27.49	28.12	28.05	18.60	17.90	17.70	1.48	1.65	5.30	26.78
20.00	27.49	28.12	28.05	18.40	17.70	17.60	1.47	1.66	5.06	27.01
40.00	27.54	28.15	28.09	18.10	17.80	17.10	1.48	1.68	4.87	26.88
60.00	27.58	28.21	28.16	18.00	17.50	17.70	1.48	1.69	4.89	27.08
80.00	27.55	28.18	28.13	18.10	17.10	17.20	1.49	1.72	4.85	27.15
100.00	27.58	28.19	28.14	17.40	17.40	16.80	1.48	1.74	4.91	27.51
200.00	27.61	28.22	28.17	17.40	17.50	17.00	1.48	1.75	4.89	27.23
300.00	27.63	28.26	28.22	17.80	16.90	17.20	1.47	1.78	4.98	27.17
400.00	27.60	28.22	28.17	16.90	17.20	17.00	1.48	1.80	5.06	27.06
500.00	27.62	28.25	28.22	16.90	16.60	17.20	1.48	1.82	4.96	27.26
600.00	27.59	28.23	28.20	16.90	16.60	17.00	1.47	1.84	4.91	26.76
700.00	27.54	28.18	28.15	17.00	16.90	17.10	1.45	1.86	4.85	26.68
800.00	27.55	28.20	28.17	16.80	17.10	17.30	1.45	1.87	4.87	26.48
900.00	27.46	28.12	28.10	17.30	16.50	17.00	1.46	1.88	4.93	26.49
1000.00	27.35	28.00	27.98	17.50	17.40	17.50	1.45	1.89	5.02	25.97