

# 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



ZFL-1000VHX+

ZFL-1000VH+

Generic photo used for illustration purposes only

CASE STYLE: SS98

Connectors	Model
SMA	ZFL-1000VH+
BRACKET (OPTION "B")	
SMA	ZFL-1000VHX+

### +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 <sup>1</sup>	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
ZFL-1000VHX+*	10	1000	20	±1.0	+25	+15	4.5	+38	2.0	2.5	15	320

\* Heat sink not included.

<sup>1</sup> 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

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

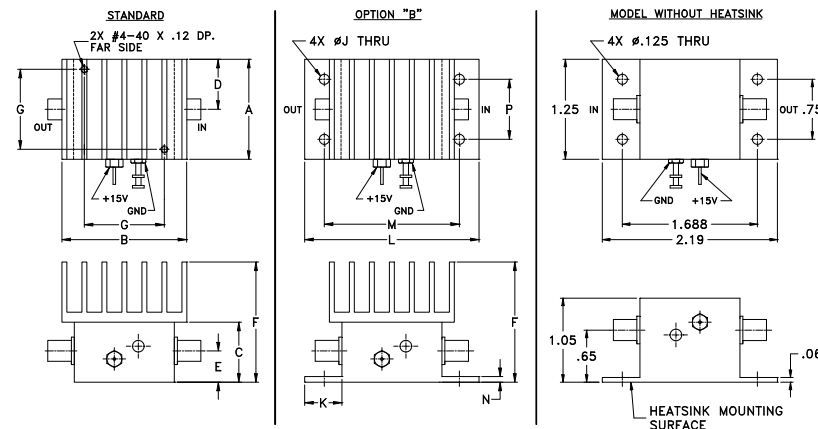
Operating Temperature -20°C to 71°C

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 without heat sink

## Notes

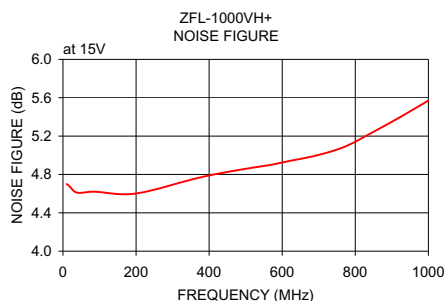
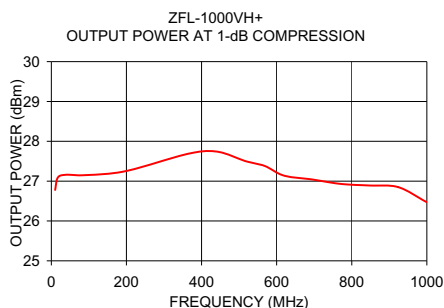
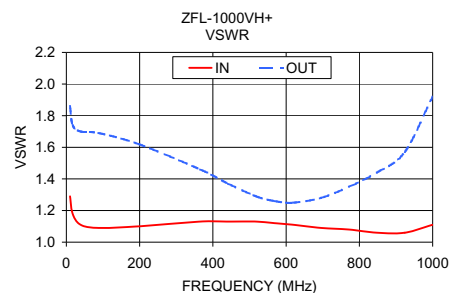
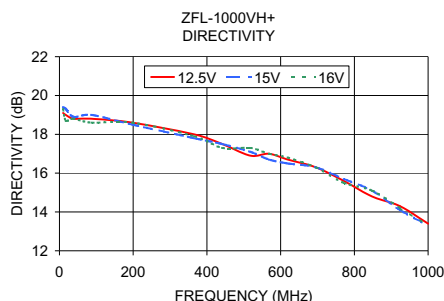
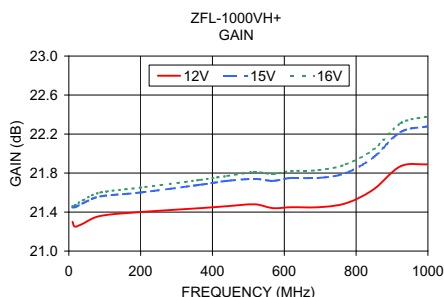
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FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	12V	15V	16V	12V	15V	16V	IN	OUT		
10.00	21.30	21.45	21.46	19.10	19.40	19.30	1.29	1.86	4.70	26.78
17.20	21.25	21.45	21.47	19.00	19.30	18.70	1.18	1.74	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



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