

Coaxial Amplifier

ZHL-1-2W+ ZHL-1-2W

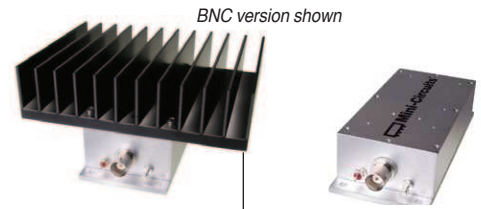
50Ω High Power 2W 5 to 500 MHz

Features

- wideband, 5 to 500 MHz
- high power output, +33 dBm min.
- high gain, +29 dB min.
- high IP3, +44 dBm typ.
- good matching VSWR, 1.5:1

Applications

- VHF/UHF
- instrumentation
- laboratory



BNC version shown

Connectors	Model no.	Price	Qty.	Model no.	Price	Qty.
BNC	ZHL-1-2W(+)	\$ 525.00	(1-9)	ZHL-1-2WX(+)	\$ 475.00	(1-9)
SMA	ZHL-1-2W-S(+)	\$ 535.00	(1-9)	ZHL-1-2WX-S(+)	\$ 485.00	(1-9)
N-TYPE	ZHL-1-2W-N(+)	\$ 535.00	(1-9)	ZHL-1-2WX-N(+)	\$ 485.00	(1-9)

Electrical Specifications at 25°C

MODEL NO.	FREQ. (MHz)		GAIN (dB)		MAXIMUM POWER OUTPUT (dBm)		DYNAMIC RANGE		VSWR (:1) Typ.		DC POWER	
	f _L	f _U	Min.	Max.	(1 dB Compr.) Min.	Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (A) Max.
ZHL-1-2W(+)	5	500	29	±1.0	+33	+10	12	+44	1.5	1.5	24	0.9
ZHL-1-2WX(+)*	5	500	29	±1.0	+33	+10	12	+44	1.5	1.5	24	0.9

*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 base-plate temperature to 85°C, in order to ensure proper performance. For reference, this requires thermal resistance of user's external heat sink to be 1.0°C/W Max.

Maximum Ratings

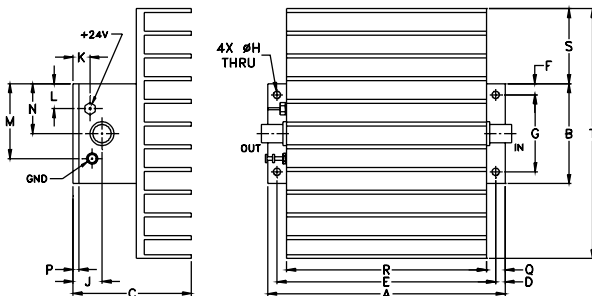
Operating Temperature -20°C to 65°C

Storage Temperature -55°C to 100°C

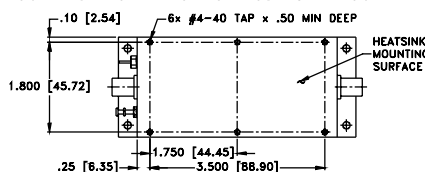
DC Voltage +25V Max.

Permanent damage may occur if any of these limits are exceeded.

Outline Drawing



MOUNTING INFORMATION FOR MODELS WITHOUT HEATSINK



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	wt
4.75	2.00	2.37	.19	4.375	.23	1.540	.144	.58	.34	.50	1.50	1.00	.12	.38	4.00	1.50	5.0	grams*
120.65	50.80	60.20	4.83	111.13	5.84	39.12	3.66	14.73	8.64	12.70	38.10	25.40	3.05	9.65	101.60	38.10	127.00	700

*300 grams without heatsink



For detailed performance specs & shopping online see web site

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IF/RF MICROWAVE COMPONENTS

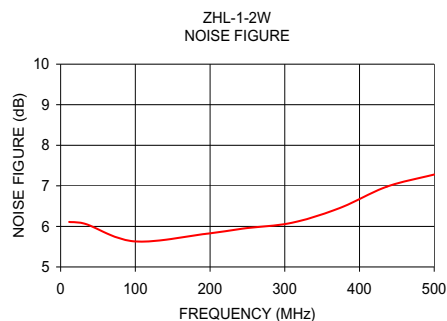
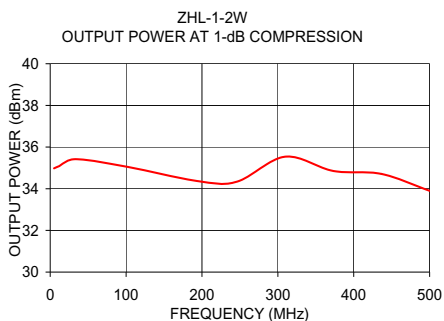
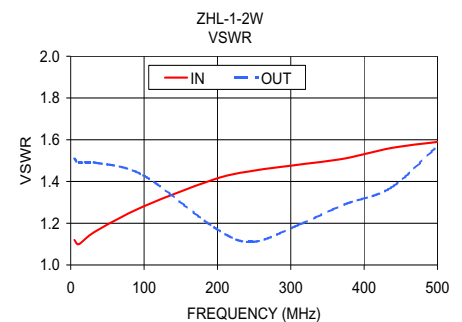
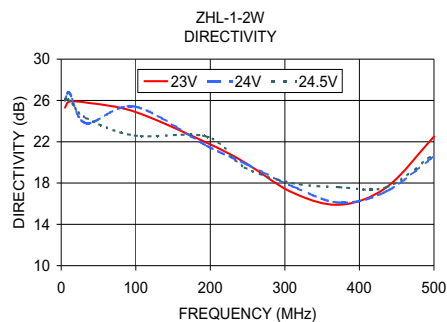
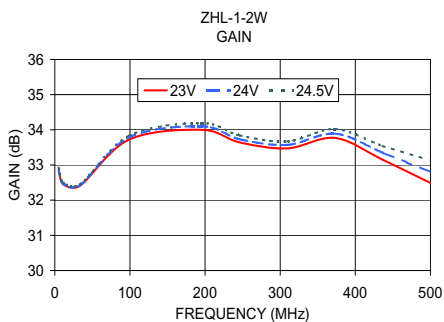
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Typical Performance Data/Curves

ZHL-1-2W+ ZHL-1-2W

FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	P _{OUT} at 1 dB COMPR. (dBm)
	23V	24V	24.5V	23V	24V	24.5V	IN	OUT		
5.00	32.84	32.87	32.92	25.30	26.00	26.10	1.12	1.51		34.98
11.30	32.45	32.47	32.50	25.90	26.70	26.00	1.10	1.49	6.11	35.08
33.40	32.41	32.42	32.45	25.80	23.80	24.30	1.16	1.49	6.06	35.42
98.80	33.72	33.78	33.83	24.90	25.40	22.60	1.28	1.43	5.63	35.07
195.40	34.00	34.10	34.19	21.90	21.60	22.50	1.41	1.18	5.82	34.36
246.20	33.64	33.73	33.84	20.00	19.90	19.50	1.45	1.11	5.95	34.34
309.60	33.47	33.57	33.67	17.10	17.70	18.00	1.48	1.19	6.09	35.54
373.10	33.77	33.89	34.02	15.90	16.10	17.60	1.51	1.29	6.45	34.85
436.50	33.15	33.35	33.54	17.60	17.20	17.60	1.56	1.37	6.98	34.71
500.00	32.49	32.80	33.14	22.50	20.60	20.80	1.59	1.57	7.28	33.90



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