

Coaxial Amplifier

ZHL-1-2W

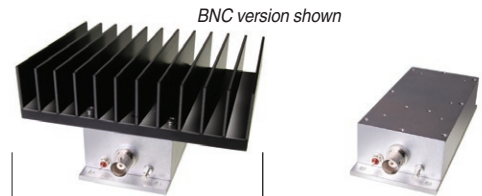
50Ω High Power 2W 5 to 500 MHz

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

CASE
STYLE
T35

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

MODEL NO.	FREQ. (MHz)		GAIN (dB)		MAXIMUM POWER OUTPUT (dBm)		DYNAMIC RANGE		VSWR (:1) Typ.		DC POWER	
			Flatness		(1 dB Compr.)		NF (dB) IP3 (dBm)				Volt (V) Current (A)	
	f _L	f _U	Min.	Max.	Min.	Input (no damage)	Typ.	Typ.	In	Out	Nom.	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

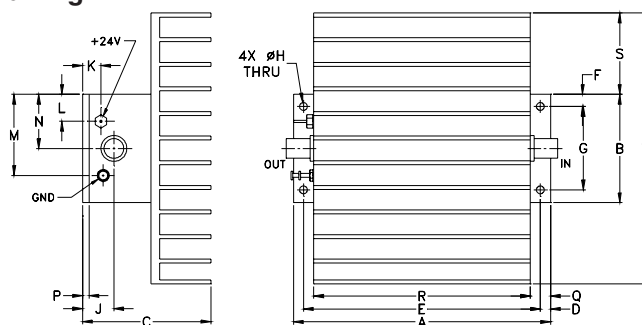
Open load is not recommended, potentially can cause damage
With no load derate max input power by 20 dB

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 temperature to 65°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.

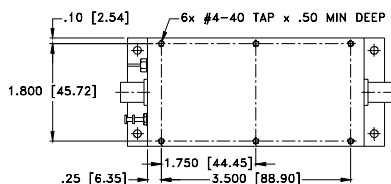
Maximum Ratings

Operating Temperature	-20°C to 65°C
Storage Temperature	-55°C to 100°C
DC Voltage	+25V Max.

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

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IF/RF MICROWAVE COMPONENTS

REV. A
M121392
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090327
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FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT 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

