

Coaxial Amplifier

ZHL-1HLD

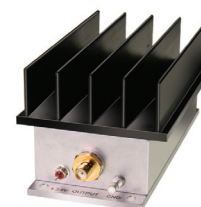
50Ω High Isolation 225 to 400 MHz

Features

- very low noise, 2.5 dB typ.
- active directivity (isolation-gain), 34 dB typ.

Applications

- UHF
- receivers
- two-tone, third order IM testing
- laboratory



CASE STYLE: T34

Connectors	Model	Price	Qty.
SMA	ZHL-1HLD	\$395.00	(1-9)

Amplifier Electrical Specifications

MODEL NO.	FREQUENCY (MHz)		GAIN (dB)			MAXIMUM POWER (dBm)			DYNAMIC RANGE		VSWR (:1) Typ.		ACTIVE DIRECTIVITY* (dB)				DC POWER	
	f_L	f_U	Min.	m	Flatness Max. Total Range	L	U	Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	L Typ.	Min.	U Typ.	Min.	Volt (V) Nom.	Current (mA) Max.
ZFL-1HLD	225	400	23	—	±1.0	+27	+27	+10	2.5	+40	2.0	2.0	34	28	34	28	24	525

*Active Directivity(dB)= Isolation (dB)- Gain (dB)

Open load is not recommended, potentially can cause damage.

With no load derate max input power by 20 dB

L= low range (f_L to $f_U/2$) m= mid range ($2f_L$ to $f_U/2$) U= upper range ($f_U/2$ to f_U)

Maximum Ratings

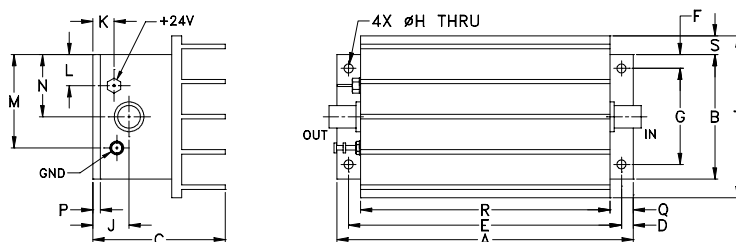
Operating Temperature -20°C to 65°C

Storage Temperature -55°C to 100°C

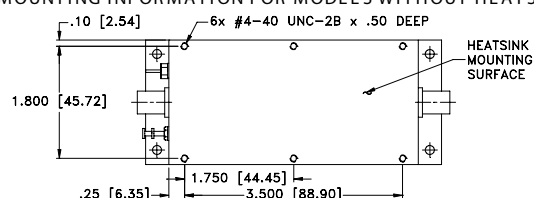
DC Voltage +25V Max.

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	2.12	.19	4.375	.23	1.540	.144	.58	.34	.50	1.50	1.00	.12	.38	4.00	.30	2.60	grams*
120.65	50.80	53.85	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	7.62	66.04	440.0

*325 grams without heatsink

Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



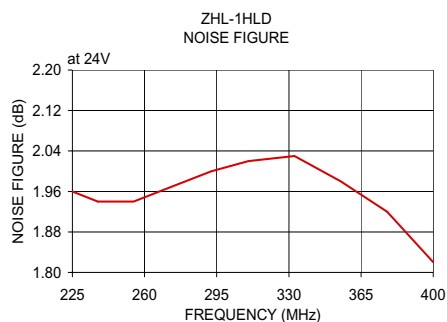
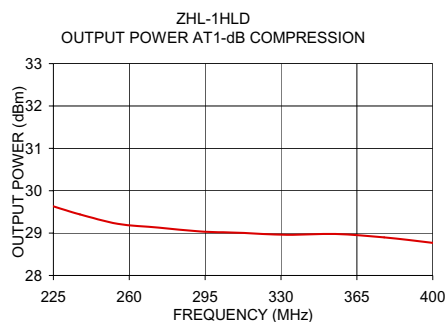
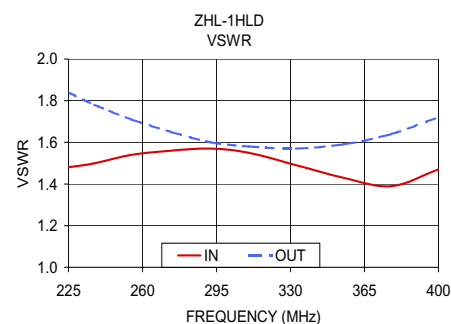
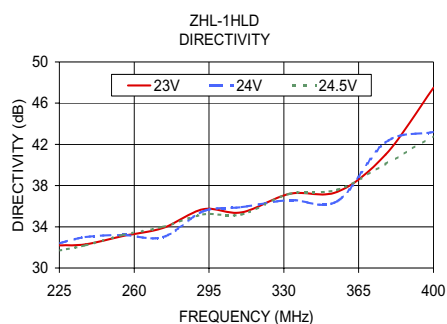
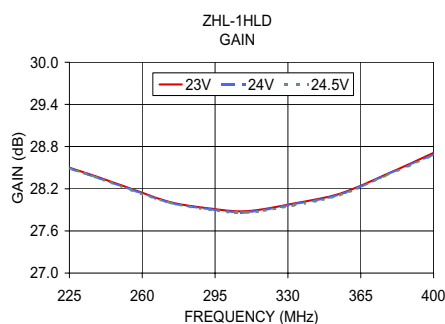
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REV. OR
M98087
ZFL-1HLD
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Typical Performance Data/Curves

ZHL-1HLD

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		
225.00	28.50	28.49	28.49	32.20	32.40	31.70	1.48	1.84	1.96	29.63
237.30	28.38	28.37	28.37	32.30	33.00	32.20	1.50	1.78	1.94	29.44
254.70	28.20	28.19	28.18	33.10	33.20	33.20	1.54	1.71	1.94	29.22
273.50	28.01	28.00	28.00	33.90	33.00	34.00	1.56	1.65	1.97	29.13
292.30	27.92	27.91	27.90	35.70	35.50	35.20	1.57	1.60	2.00	29.04
310.30	27.88	27.87	27.86	35.40	35.90	35.20	1.55	1.58	2.02	29.01
332.70	27.99	27.98	27.96	37.20	36.60	37.20	1.49	1.57	2.03	28.96
355.10	28.13	28.12	28.11	37.40	36.50	37.60	1.43	1.59	1.98	28.98
377.60	28.41	28.40	28.39	41.00	42.20	40.10	1.39	1.64	1.92	28.90
400.00	28.71	28.69	28.68	47.50	43.20	42.80	1.47	1.72	1.82	28.77



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