



COAXIAL High Power Amplifier

ZHL-5W-1+ ZHL-5W-1X+

50Ω 5W 5 to 500 MHz

FEATURES

- High Power, 5 Watt
- Wideband, 5 to 500 MHz
- High Power Output, +37dBm Min.
- High Gain, 40 dB typ.
- Low Noise Figure, 4 dB typ.
- High IP3, +49 dBm typ.

APPLICATIONS

- VHF
- Instrumentation
- Laboratory



Generic photo used for illustration purposes only

Model No.	ZHL-5W-1+	ZHL-5W-1X+ [▲]
Case Style	DDD131	
Connectors	SMA	

+RoHS Compliant
The +Suffix identifies RoHS Compliance.
See our website for methodologies and qualifications

ELECTRICAL SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Units
Frequency Range	5	—	500	MHz
Gain	40	—	—	dB
Gain Flatness	—	—	±1.7	dB
Output Power at 1dB compression	+37	—	—	dBm
Noise Figure	—	4.0	—	dB
Output third order intercept point	—	+49	—	dBm
Input VSWR	—	2.0	—	:1
Output VSWR	—	2.5	—	:1
DC Supply Voltage	—	24	25	V
Supply Current	—	—	3.3	A

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

[▲] Heat sink not included. Alternative heat sinking and heat removal must be provided by the user to limit maximum base-plate temperature to 65°C, in order to ensure proper performance. For reference, this requires thermal resistance of user's external heat sink to be 0.3°C/W max.

ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-20°C to +65°C
Storage Temperature	-55°C to +100°C
Input RF Power (no damage)	0 dBm

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





COAXIAL

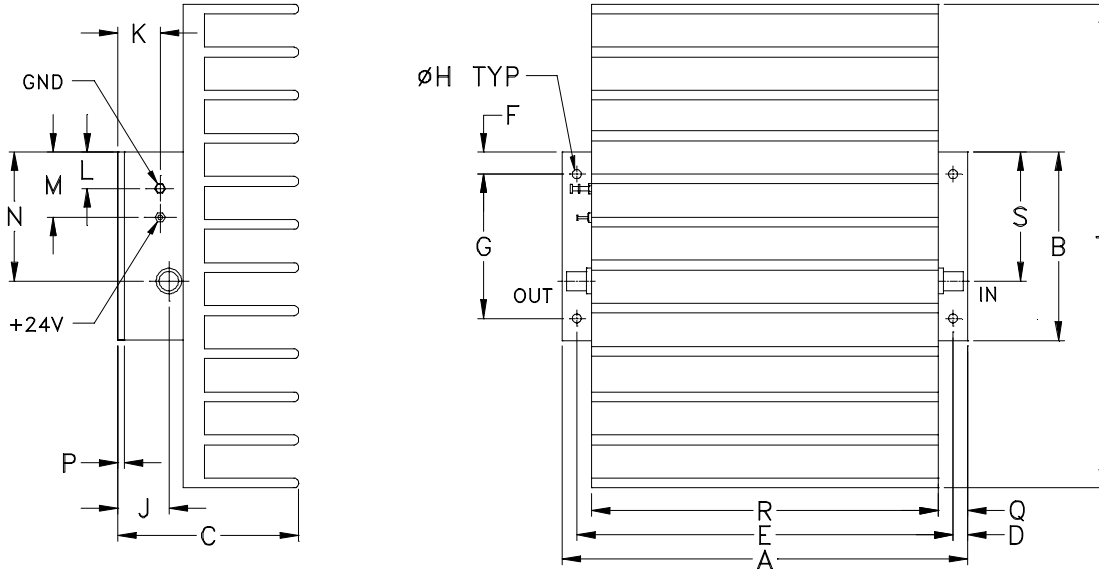
High Power Amplifier

ZHL-5W-1+ ZHL-5W-1X+

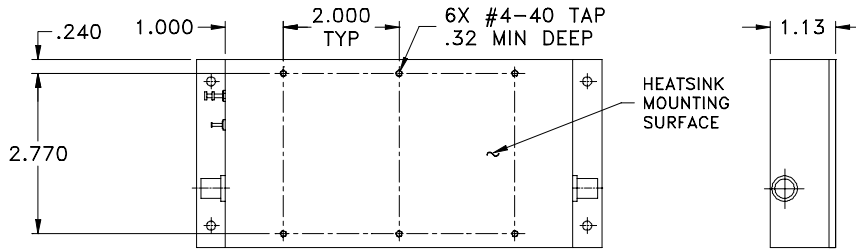
Mini-Circuits

50Ω 5W 5 to 500 MHz

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
7.00	3.25	3.13	.25	6.500	.38	2.500	.156	.88	.43	.62	1.00	2.63	.125	.50	6.00	2.23	8.35	grams*
177.80	82.55	79.50	6.35	165.10	9.65	63.50	3.96	22.35	10.92	15.75	25.40	66.80	3.18	12.70	152.40	56.64	212.09	1780
																		*510 grams without heatsink