

Coaxial Amplifier

ZHL-5W-2G

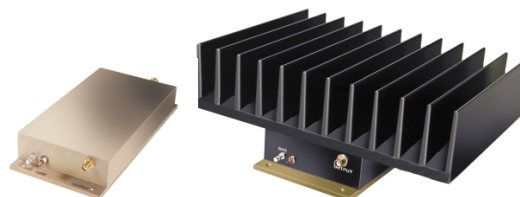
50Ω High Power 5W 800 to 2000 MHz

Features

- high power, 5 Watt
- low current consumption, 1.7A typ.
- useable over 700 to 2200 MHz
- rugged- can withstand open/short at output under full output power condition
- regulated internal power supply (current remains constant over 22 to 28V)

Applications

- cellular, PCN, GSM, ISM
- lab test



CASE STYLE: DDD131

Connectors	Model	Price	Qty.
SMA	ZHL-5W-2G	\$995.00	(1-9)
SMA	ZHL-5W-2GX	\$945.00	(1-9)

Amplifier Electrical Specifications

MODEL NO.	FREQUENCY (MHz)		GAIN (dB)				MAXIMUM POWER (dBm)					DYNAMIC RANGE		VSWR (:1) Typ.		DC POWER	
	f _L	f _U	Min.	Typ.	Max.	Flatness Max.	Output (1 dB compr.) Min.	Output (1 dB compr.) Typ.	Output (3 dB compr.) Min.	Output (3 dB compr.) Typ.	Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (A) Max.
ZHL-5W-2G	800	2000	40	49	45	±2.1	+36	+37	+37	+38	+1	8	+44	1.7	1.5	24	2.0
ZHL-5W-2GX*	800	2000	40	49	45	±2.1	+36	+37	+37	+38	+1	8	+44	1.7	1.5	24	2.0

*Heat sink and fan not included

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 0.46°C/W Max.

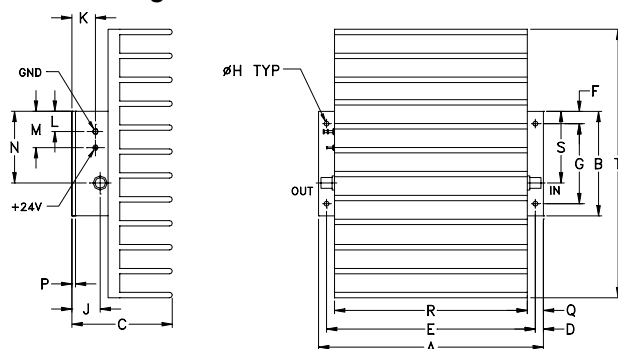
Maximum Ratings

Operating Temperature -20°C to 65°C

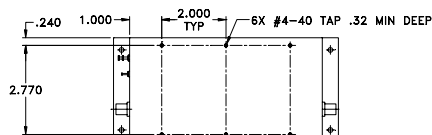
Storage Temperature -55°C to 100°C

DC Voltage +28V Max.

Outline Drawing



MOUNTING INFORMATION FOR MODELS WITHOUT HEATSINK



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K
7.00	3.25	3.13	.25	6.500	.38	2.500	.156	.88	.43
177.80	82.55	79.50	6.35	165.10	9.65	63.50	3.96	22.35	10.92
L	M	N	P	Q	R	S	T	wt	
.62	1.00	2.63	.125	.50	6.00	2.23	8.35	grams	
15.75	25.40	66.80	3.18	12.70	152.40	56.64	212.09	1884	



INTERNET <http://www.minicircuits.com>

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M104586
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060815
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Typical Performance Data/Curves

ZHL-5W-2G

FREQUENCY (MHz)	GAIN (dB)			VSWR (:1)		POUT at 1 dB COMPR. (dBm)	FREQUENCY (MHz)	IP3 (dBm)	NOISE FIGURE (dB)
	22V	24V	28V	IN	OUT				
800.00	44.61	44.83	44.36	1.31	1.18	36.16	800.00	44.07	9.00
900.00	45.71	45.92	45.45	1.33	1.29	36.81	1000.00	44.17	9.00
1000.00	46.27	46.48	46.03	1.37	1.27	37.09	1250.00	44.16	9.15
1100.00	46.33	46.54	46.08	1.39	1.11	37.14	1500.00	44.76	9.18
1150.00	46.16	46.36	45.88	1.38	1.11	36.93	1750.00	45.25	8.91
1200.00	45.79	45.98	45.47	1.42	1.19	36.72	2000.00	44.64	8.59
1250.00	45.29	45.47	44.96	1.41	1.24	36.51			
1300.00	44.86	45.04	44.55	1.44	1.24	36.30			
1350.00	44.53	44.71	44.25	1.43	1.19	36.06			
1400.00	44.34	44.54	44.09	1.43	1.09	35.79			
1450.00	44.22	44.43	43.96	1.46	1.07	35.73			
1500.00	44.08	44.29	43.77	1.47	1.20	35.72			
1550.00	43.87	44.08	43.51	1.44	1.35	35.85			
1600.00	43.70	43.91	43.29	1.44	1.41	35.95			
1650.00	43.60	43.80	43.15	1.41	1.43	36.19			
1700.00	43.65	43.85	43.21	1.39	1.35	36.63			
1750.00	43.67	43.88	43.23	1.35	1.24	37.02			
1800.00	44.04	44.26	43.58	1.30	1.18	37.59			
1850.00	44.29	44.51	43.80	1.24	1.24	37.99			
1900.00	44.48	44.70	43.97	1.16	1.28	38.31			
1950.00	44.59	44.81	44.10	1.09	1.27	38.22			
2000.00	44.72	44.97	44.32	1.04	1.21	37.49			

