

Coaxial Amplifier

50Ω High Power 10W 800 to 2000 MHz

ZHL-10W-2G

Features

- high power, 10 Watt
- low current consumption, 4A typ.
- useable over 700 to 2200 MHz
- rugged- can withstand open/short at output under full output power condition
- internal power regulator (current remains constant over 22 to 28V)

Applications

- cellular, PCN, GSM, ISM
- lab test



CASE STYLE: BT1204

Connectors	Model	Price	Qty.
SMA	ZHL-10W-2G	\$1295.00	(1-9)
SMA	ZHL-10W-2GX	\$1220.00	(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-10W-2G	800	2000	40	43	49	±2.0	+39	+40	+40	+41	+1	7	+50	1.3	1.3	24	5
ZHL-10W-2GX*	800	2000	40	43	49	±2.0	+39	+40	+40	+41	+1	7	+50	1.3	1.3	24	5

*Heat sink and fan not included

To order without heat sink and fan, 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 0.08°C/W Max.

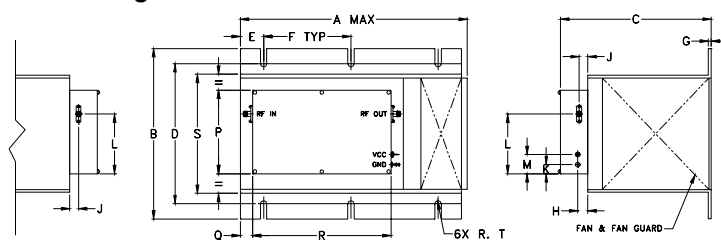
Maximum Ratings

Operating Temperature -20°C to 65°C

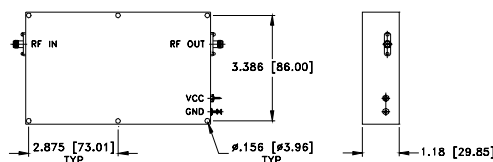
Storage Temperature -55°C to 100°C

DC Voltage +28V Max.

Outline Drawing



MOUNTING INFORMATION FOR MODELS WITHOUT HEATSINK.
FOR MODELS DESIGNATED WITH -X SEE FIGURE BELOW



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	wt
9.85	7.3	6.5	6.00	1.00	3.75	.13	.43	.37	.39	2.56	.83	--	3.58	.5	5.95	5.1	.135	grams
250.19	185.42	165.10	152.40	25.40	95.25	3.30	10.92	9.40	9.91	65.02	21.08	--	90.93	12.70	151.13	129.54	3.43	4000



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REV. OR
M105872
ZHL-10W-2G
ED-12520
060815
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Typical Performance Data/Curves

ZHL-10W-2G

FREQUENCY (MHz)	GAIN (dB)			VSWR (:1)		POUT at 1 dB COMPR. (dBm)	IP3 (dBm)	NOISE FIGURE (dB)
	21V	24V	27V	IN	OUT			
800.00	43.87	43.85	43.83	1.33	1.05	40.81	52.13	5.15
900.00	43.69	43.66	43.64	1.25	1.13	41.27	52.62	5.07
1000.00	43.45	43.42	43.40	1.30	1.14	41.72	53.42	5.05
1100.00	43.20	43.17	43.15	1.38	1.09	41.89	53.54	5.09
1200.00	43.05	43.03	43.01	1.43	1.07	41.91	53.78	5.09
1300.00	43.21	43.19	43.17	1.42	1.17	41.56	54.28	5.08
1400.00	43.41	43.40	43.39	1.37	1.20	40.89	52.92	5.11
1500.00	43.47	43.44	43.43	1.32	1.12	40.66	52.84	5.11
1600.00	43.44	43.40	43.37	1.26	1.09	40.27	51.87	5.13
1700.00	43.51	43.45	43.41	1.22	1.18	39.69	51.58	5.15
1800.00	43.81	43.72	43.67	1.17	1.27	40.05	51.60	5.23
1900.00	44.56	44.43	44.37	1.11	1.29	40.58	52.24	5.24
2000.00	44.57	44.45	44.38	1.12	1.34	40.29	50.67	5.30

