

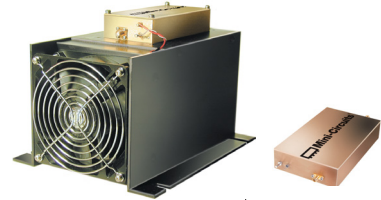
Coaxial High Power Amplifier

ZHL-10W-2G+

50Ω 10W 800 to 2000 MHz

Features

- High power, 10 Watt
- Low Current consumption, 4A typ.
- High IP3, +50 dBm typ.
- Usable over 700 to 2200 MHz
- No damage with an open or short output load under full CW output power



Model No.	ZHL-10W-2G+	ZHL-10W-2GX+
Case Style	BT1204	
Connectors	SMA	

Applications

- Cellular
- PCN
- GSM
- ISM
- Lab Test

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

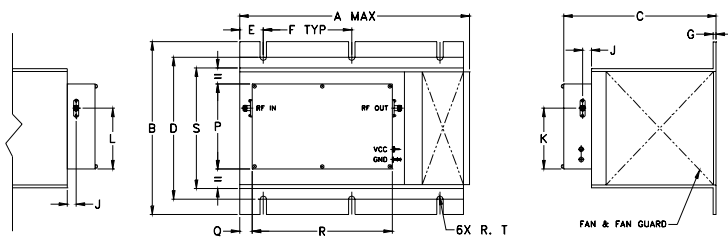
Electrical Specifications

Parameter	ZHL-10W-2G+			ZHL-10W-2GX+			Units
	Min.	Typ.	Max.	Min	Typ.	Max.	
Frequency Range	800		2000	800		2000	MHz
Gain	40	43	49	40	43	49	dB
Gain Flatness			±2.0			±2.0	dB
Output Power at 1dB compression	+39	+40		+39	+40		dBm
Saturated Output Power at 3dB compression	+40	+41		+40	+41		dBm
Noise Figure		7.0			7.0		dB
Output third order intercept point		+50			+50		dBm
Input VSWR		1.3			1.3		:1
Output VSWR		1.3			1.3		:1
DC Supply Voltage		24	28		24	28	V
Supply Current ¹			5.0			5.0	A

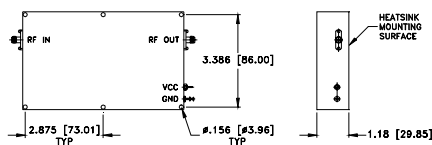
1. Power Supply should be capable of delivering 6A at start up.

Heat sink and fan not included. Alternative heat sinking and heat removal must be provided by the user to limit maximum base-plate temperature to 75°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.

Outline Drawing



MOUNTING INFORMATION FOR MODELS WITHOUT HEATSINK



Maximum Ratings

Parameter	Ratings
Operating Temperature	-20°C to 65°C
Storage Temperature	-55°C to 100°C
Base Plate Temperature	75°C
Input RF Power (no damage)	+1 dBm

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

Outline Dimensions (inch)

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		.37	2.56	2.56			3.58	.5	5.95	5.1	.135	grams
250.19	185.42	165.10	152.40	25.40	95.25	3.30		9.40	65.02	65.02			90.93	12.70	151.13	129.54	3.43	4265

*580 grams without heatsink

Notes

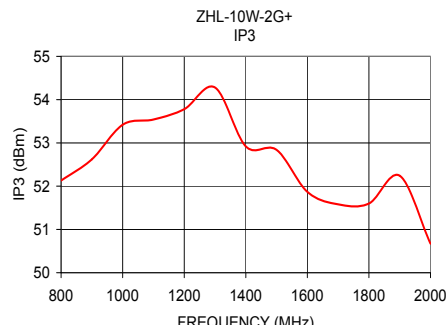
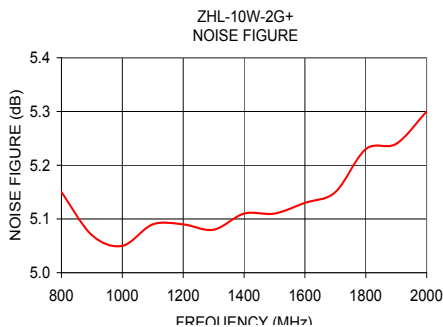
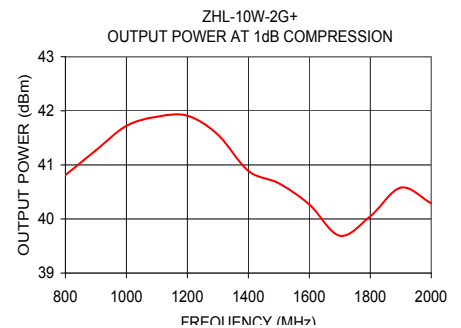
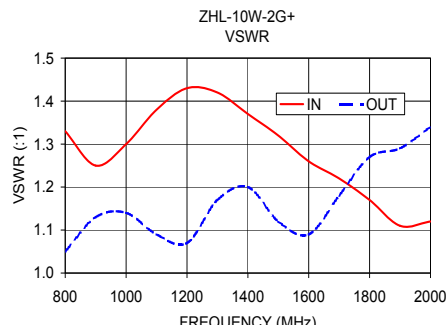
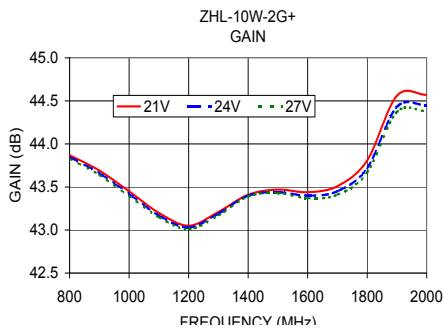
- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- 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/WCLStore/terms.jsp



www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

REV. G
M151107
ZHL-10W-2G+
ED-13288
161018
Page 1 of 2

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



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-Circuit's 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

