

Coaxial Amplifier

ZHL-211

50Ω Medium High Power 800 to 950 MHz

Features

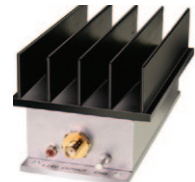
- excellent flatness, ± 0.4 dB
- high IP3, +38 dBm typ.
- medium high power, 29 dBm min.

Applications

- cellular
- instrumentation
- laboratory



ZHL211X-S



ZHL211-S

CASE STYLE: T34

Connectors	Model	Price	Qty.
SMA	ZHL-211-S	Contact Sales Dept.	
SMA	ZHL-211X-S	Contact Sales Dept.	

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Electrical Specifications

MODEL NO.	FREQ. (MHz)		GAIN (dB)		MAXIMUM POWER OUTPUT (dBm)		DYNAMIC RANGE		VSWR (:1) Max.		DC POWER	
	f_L	f_U	Min.	Max.	(1 dB Compr.) Min.	Input (no damage) +15	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (A) Max.
ZHL-211	800	950	20	± 0.4	+29	+15	8.0	+38	1.8	1.8	24	0.6
ZHL-211X*	800	950	20	± 0.4	+29	+15	8.0	+38	1.8	1.8	24	0.6

* Heat sink not included

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

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 temperature to 65°C, in order to ensure proper performance. For reference, this requires thermal resistance of user's external heat sink to be 1.35°C/W Max.

Maximum Ratings

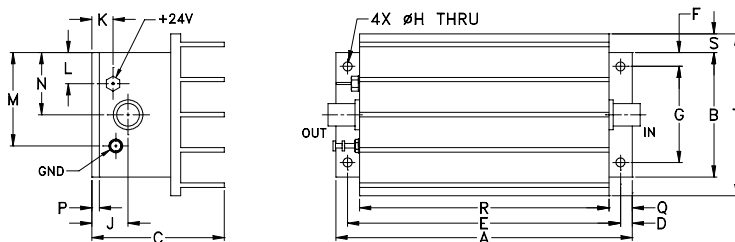
Operating Temperature -20°C to 65°C

Storage Temperature -55°C to 100°C

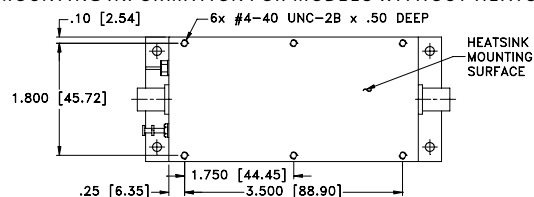
DC Voltage +25V Max.

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

Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED

For detailed performance specs
& shopping online see web site

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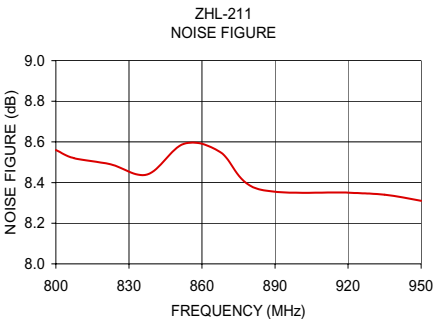
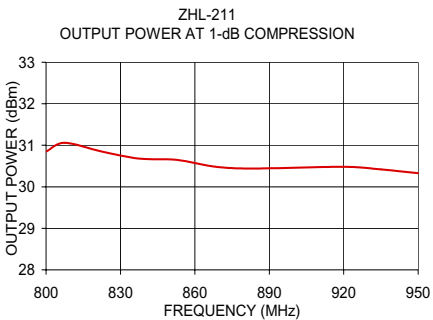
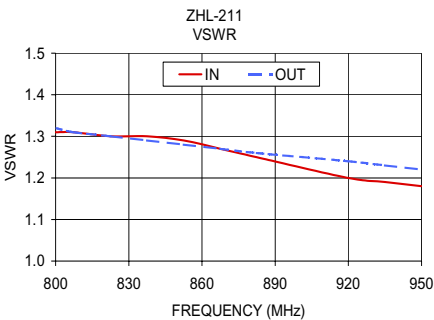
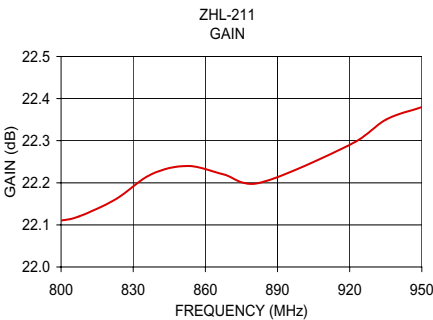
IF/RF MICROWAVE COMPONENTS

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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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FREQUENCY (MHz)	GAIN (dB)	VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	24V	IN	OUT	24V	24V
800.00	22.11	1.31	1.32	8.56	30.85
807.50	22.12	1.31	1.31	8.52	31.06
822.50	22.16	1.30	1.30	8.49	30.85
837.50	22.22	1.30	1.29	8.44	30.68
852.50	22.24	1.29	1.28	8.59	30.65
867.50	22.22	1.27	1.27	8.55	30.49
882.50	22.20	1.25	1.26	8.37	30.44
920.00	22.29	1.20	1.24	8.35	30.48
935.00	22.35	1.19	1.23	8.34	30.42
950.00	22.38	1.18	1.22	8.31	30.33

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