



Mini-Circuits

COAXIAL

Medium High Power Amplifier **ZHL-32A+**

50Ω 0.05 to 130 MHz

FEATURES

- Medium High Power, +29 dBm min.
- High IP3, +38 dBm typ.

APPLICATIONS

- HF/VHF
- Instrumentation
- Communication Systems
- Laboratory

*Generic photo used for illustration purposes only*

Model No.	ZHL-32A+	ZHL-32A-S+
Case Style	S32	
Connectors	BNC	SMA

+RoHS Compliant

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

ELECTRICAL SPECIFICATIONS

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Frequency Range		0.05		130	MHz
Gain	0.05 - 130	25			dB
Gain Flatness	0.05 - 130			±1.0	dB
Output Power at 1dB compression	0.05 - 130	+29			dBm
Output third order intercept point	0.05 - 130		+38		dBm
Noise Figure	0.05 - 130		10		dB
Input VSWR	0.05 - 130		2.0		:1
Output VSWR	0.05 - 130		2.0		:1
DC Supply Voltage			+24		V
Supply Current				0.6	A

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

ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-20°C to +65°C
Storage Temperature	-55°C to +100°C
DC Voltage	+25V Max.
RF Input Power (no damage)	+10 dBm

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

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REV. F
ECO-017949
ZHL-32A+
MCL NY
230524

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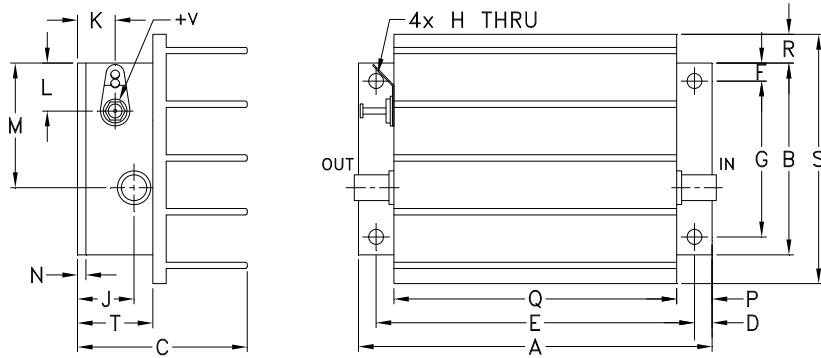


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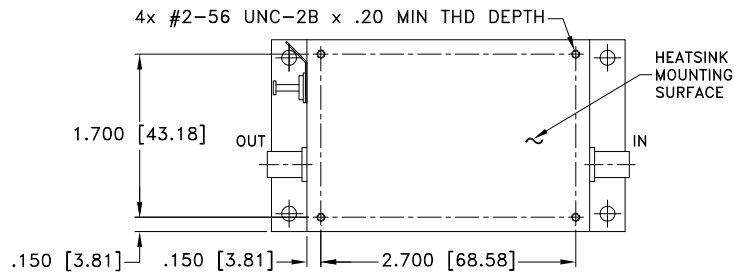
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OUTLINE DRAWING



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
3.75	2.00	1.80	.19	3.375	.19	1.625	.144	.50	.40	.50	1.30	.10	.38	3.00	.30	2.60	.80	grams
95.25	50.80	45.72	4.83	85.73	4.83	41.28	3.66	12.70	10.16	12.70	33.02	2.54	9.65	76.20	7.62	66.04	20.32	220.0
wt. w/o heat sink																		150



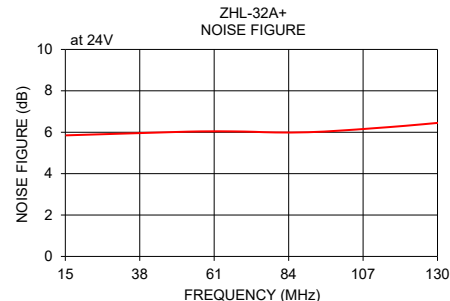
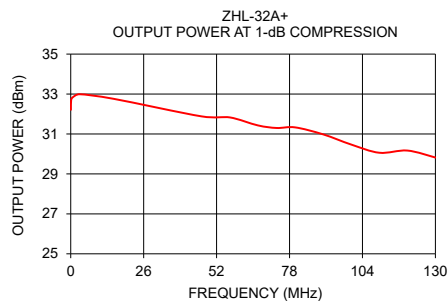
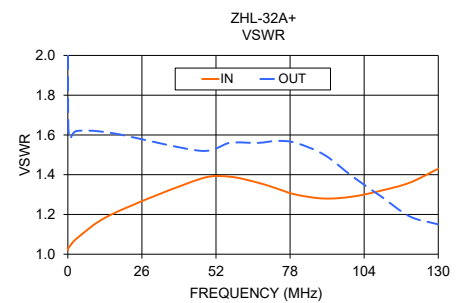
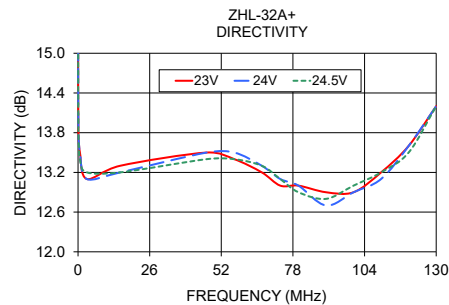
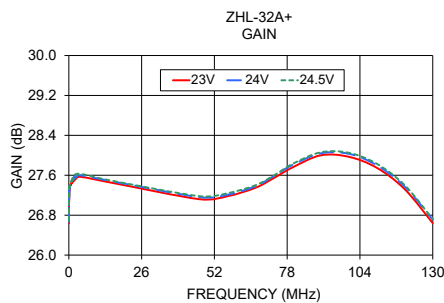
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TYPICAL PERFORMANCE DATA/CURVES

FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	23V	24V	24.5V	23V	24V	24.5V	IN	OUT	24V	24V
0.05	26.65	26.67	26.69	15.10	15.10	15.10	1.02	2.00	-	32.21
0.14	27.27	27.30	27.31	13.80	13.80	13.80	1.03	1.65	-	32.68
0.68	27.41	27.44	27.45	13.50	13.50	13.40	1.04	1.58	-	32.83
3.20	27.57	27.60	27.63	13.10	13.10	13.20	1.08	1.62	-	32.99
15.30	27.45	27.48	27.49	13.30	13.20	13.20	1.20	1.61	5.85	32.76
46.70	27.12	27.16	27.18	13.50	13.50	13.40	1.38	1.52	6.00	31.88
56.70	27.18	27.21	27.24	13.40	13.50	13.40	1.39	1.56	6.04	31.83
66.70	27.35	27.38	27.40	13.20	13.30	13.30	1.36	1.56	6.04	31.43
73.40	27.55	27.59	27.60	13.00	13.10	13.10	1.33	1.57	6.02	31.30
80.00	27.76	27.81	27.83	13.00	13.00	12.90	1.30	1.56	5.99	31.33
90.00	28.00	28.04	28.06	12.90	12.70	12.80	1.28	1.50	6.00	30.98
100.00	27.97	28.03	28.05	12.90	12.90	13.00	1.29	1.39	6.08	30.47
110.00	27.75	27.80	27.83	13.20	13.10	13.20	1.32	1.29	6.19	30.06
120.00	27.32	27.37	27.40	13.60	13.60	13.50	1.36	1.19	6.31	30.17
130.00	26.64	26.71	26.72	14.20	14.20	14.20	1.43	1.15	6.45	29.82



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.
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