Coaxial

Amplifier

ZHL-3A+
ZHL-3A

50Ω Medium High Power 0.4 to 150 MHz

BNC version shown

CASE STYLE: S32

Connectors	Model	Price	Qty.
BNC	ZHL-3A+	$229.00	(1-9)
SMA	ZHL-3A-S(+)	$239.00	(1-9)

Features
- medium-high power, 29.5 dBm min.
- high IP3, +38 dBm typ.

Applications
- HF/VHF
- instrumentation
- communication systems

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

Electrical Specifications

MODEL NO.	FREQ. (MHz)		GAIN (dB)		MAXIMUM POWER OUTPUT (dBm)		DYNAMIC RANGE		VSWR (:1) Max.		DC POWER	
	f_L	f_U	Min.	Flatness Max.	(1 dB Compr.) Min.	Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (A) Max.
ZHL-3A(+)	0.4	150	24	±1.0	+29.5	+10	11.0	+38	2.0	2.0	24	0.6

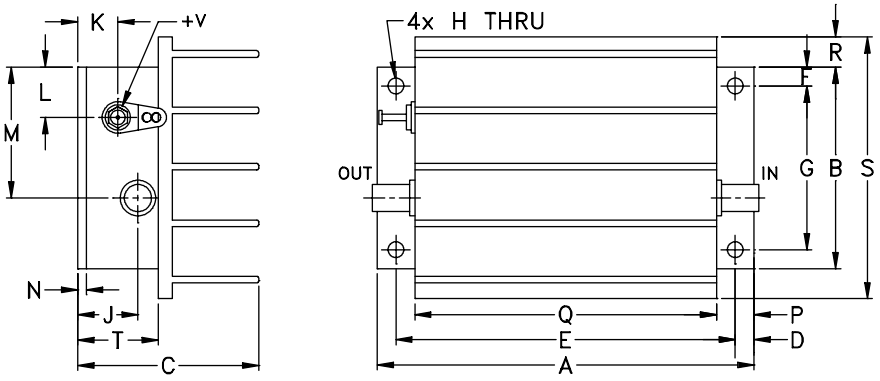
Open load is not recommended, potentially can cause damage.
With no load derate max input power by 20 dB

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



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

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.
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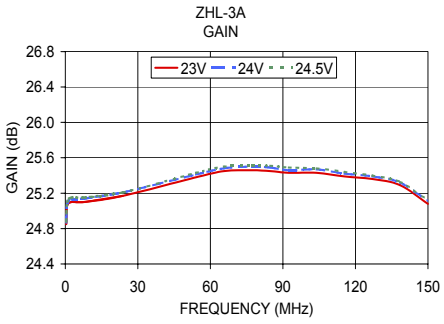
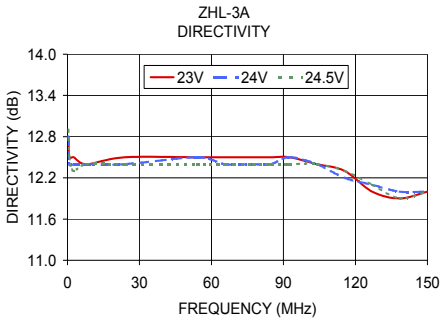
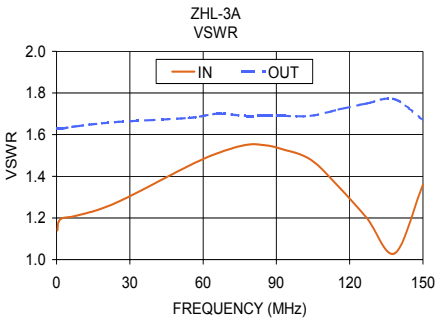
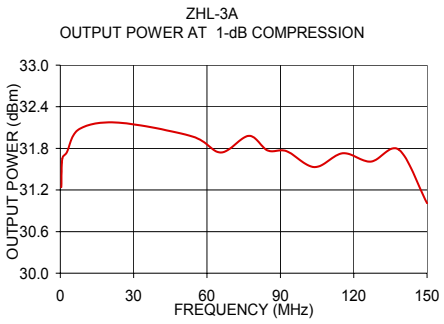
Typical Performance Data/Curves

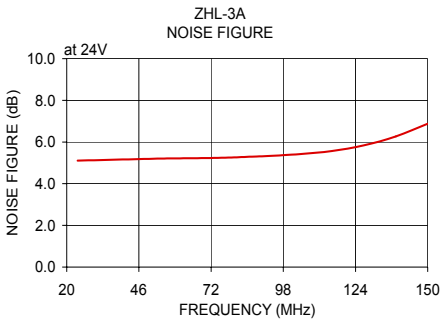
FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	23V	24V	24.5V	23V	24V	24.5V	IN	OUT	24V	24V
0.40	24.85	24.87	24.88	12.80	12.80	12.90	1.14	1.63	—	31.24
0.80	25.06	25.08	25.10	12.50	12.40	12.50	1.18	1.63	—	31.65
2.60	25.10	25.13	25.15	12.50	12.40	12.30	1.20	1.63	—	31.74
7.80	25.10	25.14	25.15	12.40	12.40	12.40	1.21	1.64	—	32.08
23.90	25.17	25.21	25.21	12.50	12.40	12.40	1.27	1.66	5.11	32.17
54.10	25.38	25.41	25.43	12.50	12.50	12.40	1.45	1.68	5.21	31.97
65.60	25.45	25.48	25.50	12.50	12.40	12.40	1.51	1.70	5.22	31.74
77.10	25.46	25.50	25.51	12.50	12.40	12.40	1.55	1.69	5.25	31.98
84.80	25.45	25.49	25.51	12.50	12.40	12.40	1.55	1.69	5.29	31.77
92.50	25.43	25.46	25.49	12.50	12.50	12.40	1.53	1.69	5.33	31.76
104.00	25.43	25.47	25.48	12.40	12.40	12.40	1.48	1.69	5.42	31.53
115.50	25.39	25.42	25.44	12.30	12.20	12.30	1.35	1.72	5.57	31.73
127.00	25.36	25.39	25.40	12.00	12.10	12.10	1.20	1.75	5.84	31.61
138.50	25.29	25.32	25.33	11.90	12.00	11.90	1.03	1.77	6.27	31.78
150.00	25.08	25.11	25.12	12.00	12.00	12.00	1.36	1.67	6.88	31.01











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