

Coaxial Amplifier

ZHL-3A

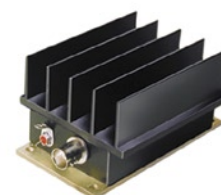
50Ω Medium High Power 0.4 to 150 MHz

Features

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

Applications

- HF/VHF
- instrumentation
- communication systems



BNC version shown
CASE STYLE: S32

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

Amplifier Electrical Specifications

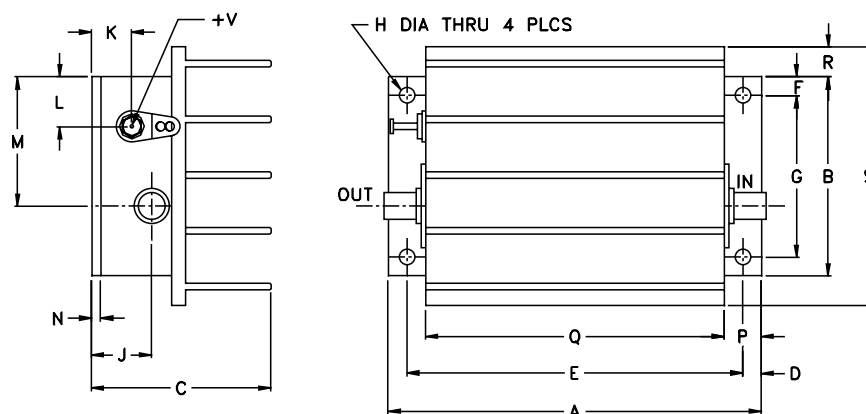
MODEL NO.	FREQUENCY (MHz)		GAIN (dB)		MAXIMUM POWER (dBm)		DYNAMIC RANGE		VSWR (:1) Max.		DC POWER	
	f_L	f_U	Min.	Flatness Max.	Output (1 dB Compr. min.)	Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (A) Max.
ZHL-3A	0.4	150	24	±1.0	+29.5	+10	11.0	+38	2.0	2.0	24	0.6

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.

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	
3.75	2.00	1.8	.19	3.375	.19	1.625	.144	.50	
95.25	50.80	45.72	4.83	85.73	4.83	41.28	3.66	12.70	
K	L	M	N	P	Q	R	S	T	wt
.40	.50	1.30	.10	.38	3.00	.30	2.60	.80	grams
10.16	12.70	33.02	2.54	9.65	76.20	7.62	66.04	20.32	220.0



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Typical Performance Data/Curves

ZHL-3A

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		
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

