

High IP3

Low Noise Amplifier

ZHL-450-75

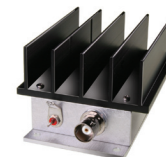
75Ω Medium High Power 5 to 450 MHz

Features

- wideband, 5 to 450 MHz
- low noise, 3.5 dB typ.
- high IP3, +48 dBm typ.
- very high IP2, 68-83 dBm typ.

Applications

- HF/VHF
- instrumentation
- CATV



CASE STYLE: S32

Connectors	Model	Price	Qty.
BNC	ZHL-450-75	\$149.95	(1-9)

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-450-75	5	450	9.3	±0.7	+26	+20	3.5*	+48	2.5	1.6	12	0.525

* Noise Figure gradually increases from 3.5 dB at 50 MHz to 10 dB typ. at 10 MHz.

Open load is not recommended, potentially can cause damage.

With no load derate max input power by 20 dB

Maximum Ratings

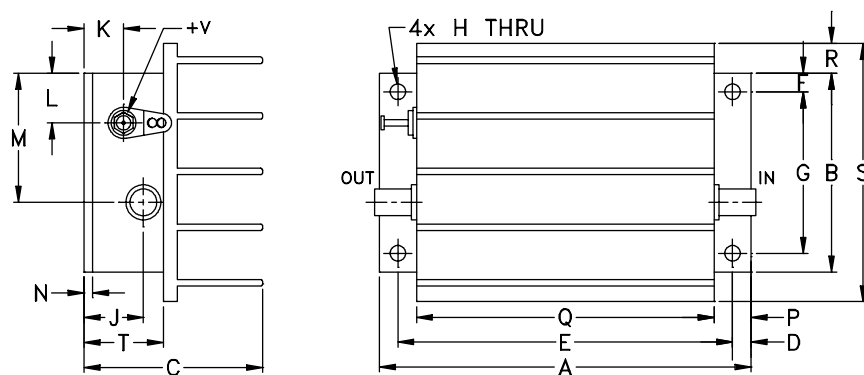
Operating Temperature -20°C to 65°C

Storage Temperature -55°C to 100°C

DC Voltage +13V 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.

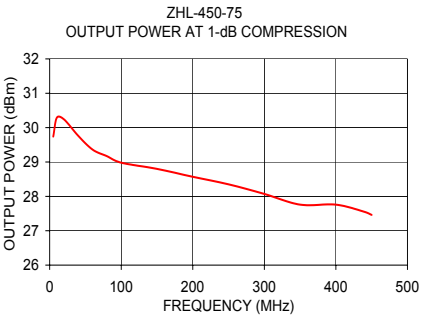
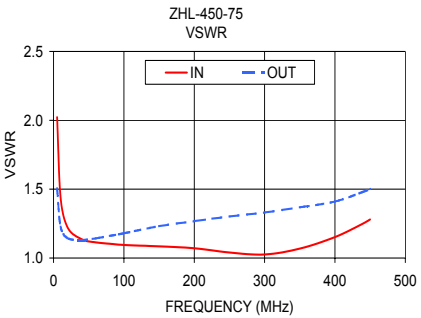
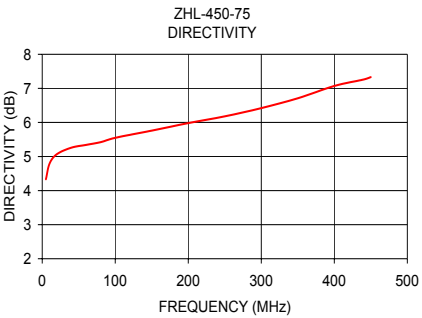
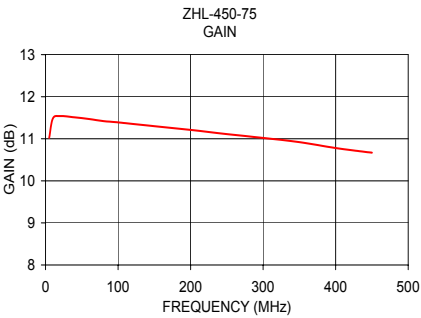
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FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR (:1)		POUT at 1 dB COMPR. (dBm)
	12V	12V	IN	OUT	12V
5.00	11.02	4.33	2.02	1.51	29.74
10.00	11.48	4.79	1.44	1.23	30.29
20.00	11.54	5.07	1.22	1.14	30.24
40.00	11.51	5.26	1.14	1.13	29.76
60.00	11.47	5.34	1.11	1.14	29.36
80.00	11.42	5.42	1.10	1.16	29.17
100.00	11.39	5.55	1.10	1.18	28.98
150.00	11.30	5.76	1.08	1.23	28.80
200.00	11.21	5.98	1.07	1.27	28.57
250.00	11.11	6.18	1.04	1.30	28.35
300.00	11.02	6.42	1.03	1.33	28.07
350.00	10.92	6.71	1.07	1.37	27.76
400.00	10.78	7.07	1.15	1.41	27.76
440.00	10.69	7.26	1.25	1.48	27.55
450.00	10.67	7.33	1.28	1.50	27.46



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