

Coaxial Amplifier

ZHL-6A

50Ω Medium Power 0.0025 to 500 MHz

Features

- wideband, 0.0025 to 500 MHz
- high IP3, +34 dBm typ.
- protected by US Patent, 6,943,629

Applications

- HF/VHF
- communication systems
- UHF TV
- lab use



BNC version shown

CASE STYLE: S32			
Connectors	Model	Price	Qty.
BNC	ZHL-6A	\$199.00	(1-9)
SMA	ZHL-6A-S	\$214.00	(1-9)

Electrical Specifications

MODEL NO.	FREQ. (MHz)		GAIN (dB)			MAXIMUM POWER OUTPUT (dBm)		DYNAMIC RANGE		VSWR (:1) Typ.		DC POWER	
	f_L	f_U	Typ.	Min.	Max.	Min.	Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (A) Max.
ZHL-6A	0.0025	500	25	21	±1.2	+22	+10	9.5*	+34	1.8	2.0*	24	0.350

Caution! Transient voltage occurring at RF output upon turn-on is approximately 50% of the applied DC power supply voltage. User should protect equipment fed by this amplifier.

* Noise Figure continually increases from 70 MHz to 10 MHz by approximately 4dB; output VSWR 2.8:1 below 30 MHz

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

Maximum Ratings

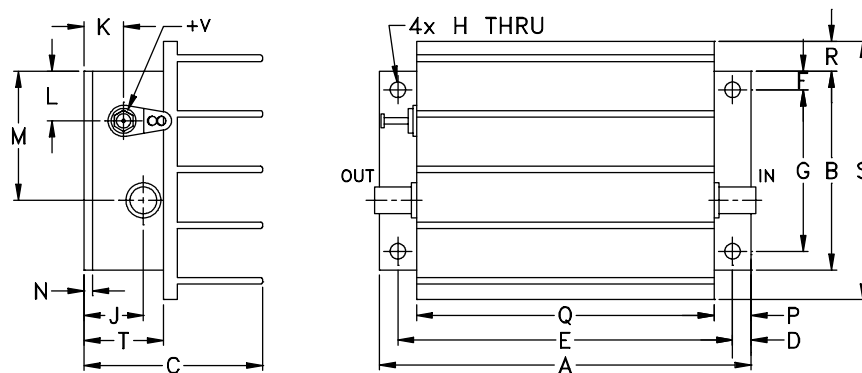
Operating Temperature -20°C to 65°C

Storage Temperature -55°C to 100°C

DC Voltage +24.5V 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

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ISO 9001 ISO 14001 AS 9100 CERTIFIED

For detailed performance specs & shopping online see web site

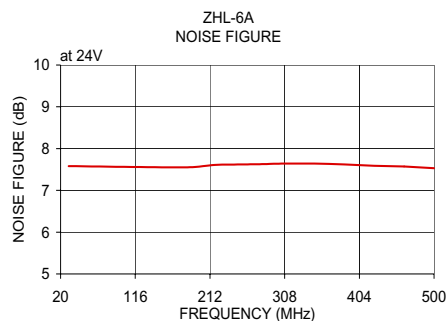
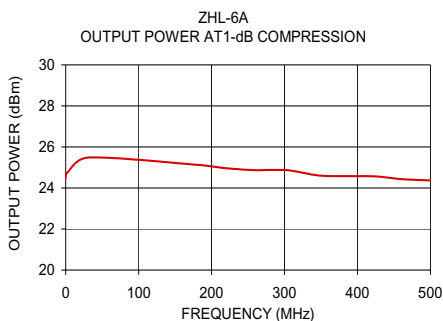
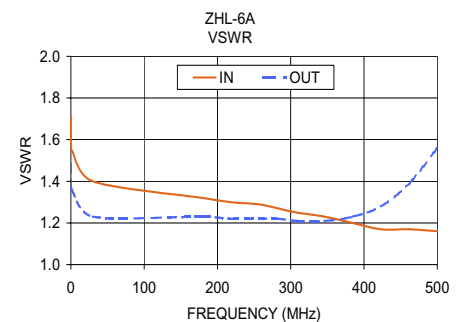
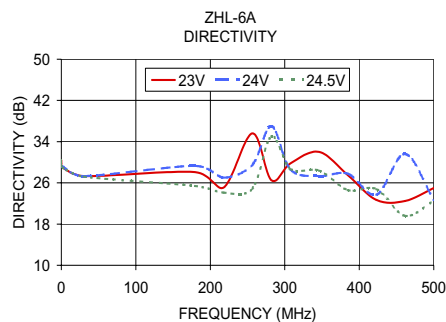
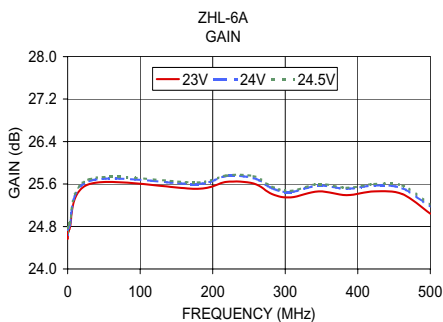
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IF/RF MICROWAVE COMPONENTS

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FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	P _{OUT} at 1 dB COMPR. (dBm)
	23V	24V	24.5V	23V	24V	24.5V	IN	OUT		
0.0025	24.57	24.64	24.69	30.40	30.50	30.40	1.71	1.48	—	24.48
0.01	24.73	24.82	24.86	29.80	29.80	29.70	1.57	1.38	—	24.62
0.18	24.67	24.75	24.79	29.30	29.20	29.20	1.56	1.37	—	24.65
2.30	24.75	24.81	24.85	28.90	29.10	28.90	1.54	1.35	—	24.75
30.20	25.60	25.66	25.69	27.30	27.30	27.20	1.40	1.23	7.58	25.48
179.50	25.51	25.60	25.63	28.10	29.30	25.40	1.32	1.23	7.55	25.13
217.90	25.64	25.75	25.76	25.10	27.00	24.10	1.30	1.22	7.61	24.97
256.40	25.61	25.71	25.75	35.60	29.50	24.90	1.29	1.22	7.62	24.87
282.10	25.41	25.52	25.55	26.50	37.00	35.00	1.27	1.22	7.63	24.88
307.70	25.35	25.45	25.47	29.80	28.60	28.70	1.25	1.21	7.64	24.85
346.10	25.46	25.57	25.60	32.00	27.30	28.40	1.23	1.21	7.64	24.61
384.60	25.39	25.51	25.53	27.50	27.80	24.60	1.20	1.23	7.62	24.58
423.10	25.46	25.57	25.60	22.70	23.70	24.80	1.17	1.28	7.59	24.57
461.50	25.41	25.52	25.57	22.50	31.60	19.60	1.17	1.39	7.57	24.43
500.00	25.04	25.17	25.21	25.00	22.70	22.50	1.16	1.56	7.53	24.37



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