

# Coaxial Amplifier

## ZHL-42

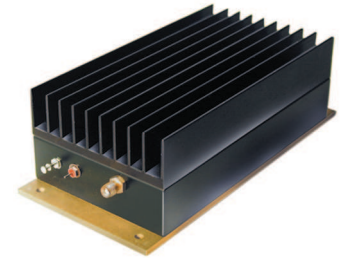
50Ω Medium High Power 700 to 4200 MHz

### Features

- wideband, 700 to 4200 MHz
- high IP3, +38 dBm typ
- high gain, 30 dB min.
- medium high power, 28 dBm min.

### Applications

- communication systems
- instrumentation
- cellular
- laboratory



CASE STYLE: U36

Connectors	Model	Price	Qty.
SMA	ZHL-42	\$895.00 ea.	(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-42	700	4200	30	±1.0*	+28	+5	10.0	+38	2.5	2.5	15	0.88

\* Measured at 25°C

Open load is not recommended, potentially can cause damage.

With no load derate max input power by 20 dB

### Maximum Ratings

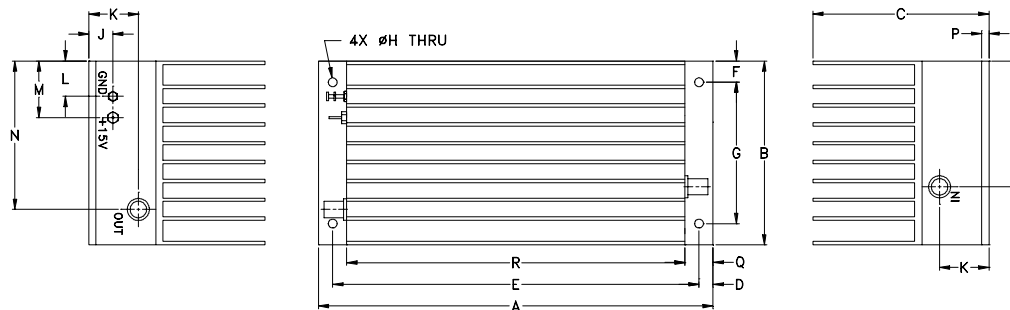
Operating Temperature -20°C to 65°C

Storage Temperature -55°C to 100°C

DC Voltage +20V 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	wt
7.00	3.25	2.13	.25	6.500	.38	2.500	.156	.73	.88	.63	1.13	2.23	.125	.50	6.00	2.23	grams
177.80	82.55	54.10	6.35	165.10	9.65	63.50	3.96	18.54	22.35	16.00	28.70	56.64	3.18	12.70	152.40	56.64	900

### 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.

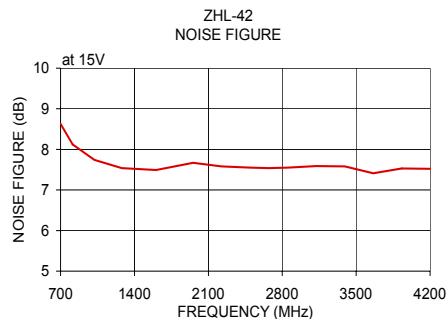
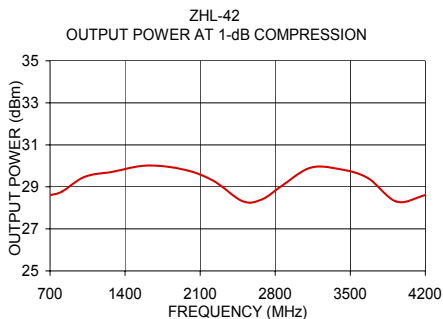
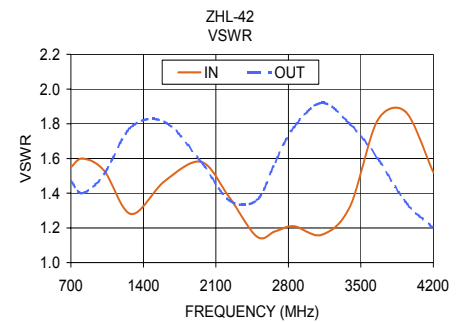
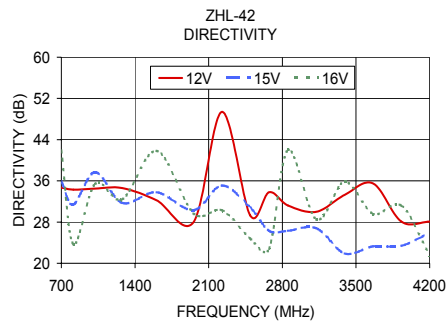
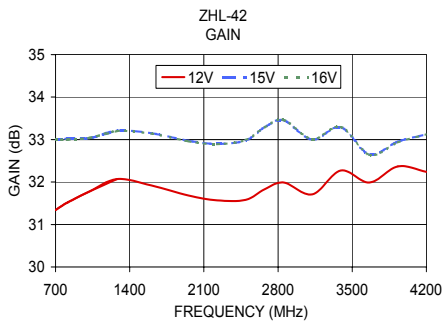
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FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	12V	15V	16V	12V	15V	16V	IN	OUT		
700.00	31.34	33.00	32.99	34.70	35.90	41.90	1.55	1.47	8.63	28.60
814.00	31.52	33.02	33.00	34.30	31.40	23.70	1.60	1.40	8.12	28.78
1020.80	31.78	33.03	33.04	34.50	37.70	35.40	1.53	1.51	7.74	29.48
1280.10	32.07	33.21	33.20	34.60	31.70	32.40	1.28	1.78	7.54	29.71
1605.20	31.92	33.15	33.14	32.20	33.80	41.80	1.47	1.81	7.49	30.02
1956.40	31.68	32.97	32.96	28.00	30.30	29.70	1.58	1.58	7.67	29.81
2225.60	31.57	32.90	32.89	49.40	35.10	30.30	1.38	1.36	7.58	29.28
2494.90	31.58	32.98	32.99	29.30	30.80	24.80	1.15	1.36	7.55	28.32
2674.40	31.83	33.29	33.29	33.80	26.30	22.80	1.18	1.58	7.54	28.40
2853.80	31.99	33.45	33.46	31.20	26.30	42.00	1.21	1.78	7.55	29.02
3123.10	31.71	33.00	33.01	30.00	26.80	28.50	1.16	1.92	7.59	29.90
3392.30	32.27	33.29	33.30	33.30	21.90	35.80	1.32	1.80	7.58	29.85
3661.50	31.99	32.65	32.64	35.50	23.30	29.60	1.82	1.60	7.41	29.43
3930.80	32.37	32.95	32.93	28.10	23.40	31.20	1.87	1.35	7.53	28.30
4200.00	32.24	33.12	33.13	28.10	25.90	21.50	1.52	1.20	7.52	28.61



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