

Coaxial Amplifier

ZHL-42W

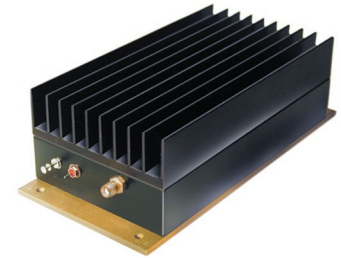
50Ω Medium High Power 10 to 4200 MHz

Features

- wideband, 10 to 4200 MHz
- high IP3, +38 dBm typ
- high gain, 30 dB min.

Applications

- communication systems
- instrumentation
- cellular
- laboratory



CASE STYLE: U36			
Connectors	Model	Price	Qty.
SMA	ZHL-42W	\$1095.00 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-42W	10	4200	30	±1.5*	+28**	0	8.0***	+38	2.5	2.5	15	0.88

* Measured at 25°C

** +27 dBm at 10-700 MHz

*** Below 100 MHz NF increases to 15 dB at 10 MHz

Open load is not recommended, potentially can cause damage.

With no load derate max input power by 20 dB

Maximum Ratings

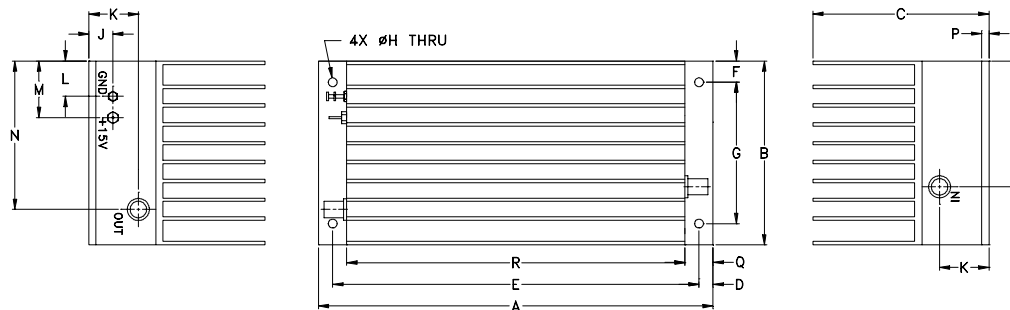
Operating Temperature -20°C to 65°C

Storage Temperature -55°C to 100°C

DC Voltage +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

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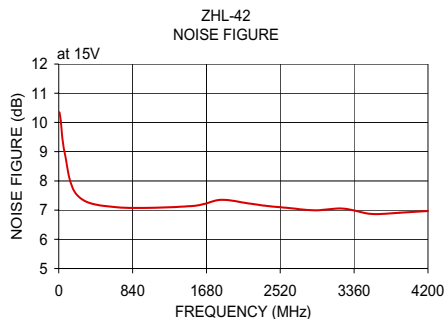
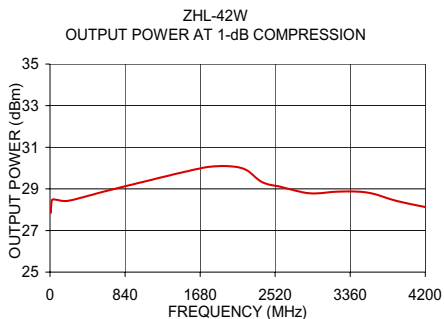
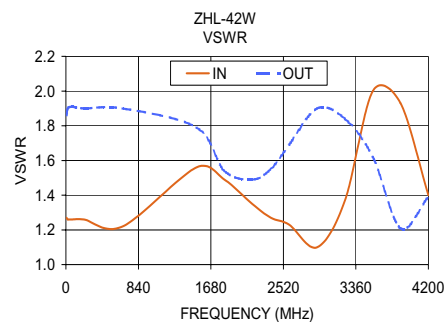
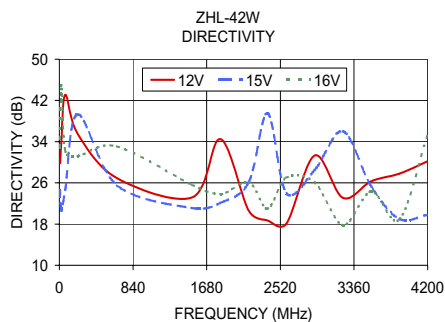
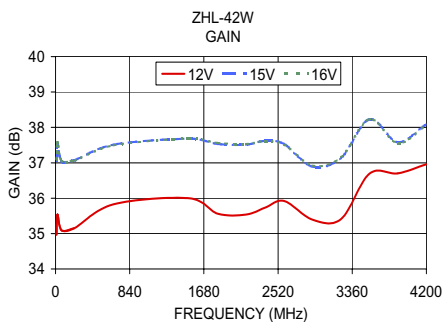
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FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	12V	15V	16V	12V	15V	16V	IN	OUT		
10.00	34.97	37.07	37.10	29.80	24.60	32.90	1.27	1.86	10.35	27.85
21.40	35.54	37.56	37.57	33.70	20.60	45.00	1.26	1.90	10.07	28.46
67.00	35.09	37.04	37.06	43.10	24.60	32.20	1.26	1.91	8.96	28.48
209.90	35.15	37.07	37.06	35.50	39.30	31.20	1.26	1.90	7.51	28.43
657.20	35.83	37.51	37.49	26.90	25.50	33.10	1.22	1.90	7.10	28.93
1514.10	36.00	37.68	37.68	23.20	21.10	25.60	1.56	1.79	7.14	29.83
1836.40	35.56	37.53	37.56	34.50	22.10	23.80	1.49	1.54	7.35	30.08
2158.70	35.54	37.51	37.53	20.60	26.10	26.10	1.35	1.49	7.23	29.98
2373.60	35.73	37.62	37.61	18.70	39.50	21.00	1.27	1.55	7.14	29.32
2588.50	35.92	37.53	37.51	18.10	24.00	27.00	1.23	1.69	7.08	29.09
2910.80	35.39	36.89	36.92	31.30	28.50	26.10	1.10	1.90	6.99	28.79
3233.10	35.41	37.14	37.16	23.10	36.00	17.80	1.37	1.84	7.05	28.87
3555.40	36.69	38.23	38.23	26.30	25.30	24.30	2.00	1.62	6.87	28.82
3877.70	36.70	37.58	37.55	27.80	19.00	18.90	1.93	1.21	6.91	28.42
4200.00	36.96	38.09	38.07	30.20	19.80	35.40	1.40	1.39	6.97	28.13



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