

Coaxial Amplifier

ZHL-4240

50Ω Medium High Power 700 to 4200 MHz

Features

- wideband, 700-4200 MHz
- high IP3, +30 dBm typ.
- high gain, 40 dB min.
- medium high power, 28dBm min

Applications

- communication systems
- instrumentation
- satellite dist./GPS/PCS
- laboratory



CASE STYLE: U36
 Connectors Model
 SMA ZHL-4240

Electrical Specifications

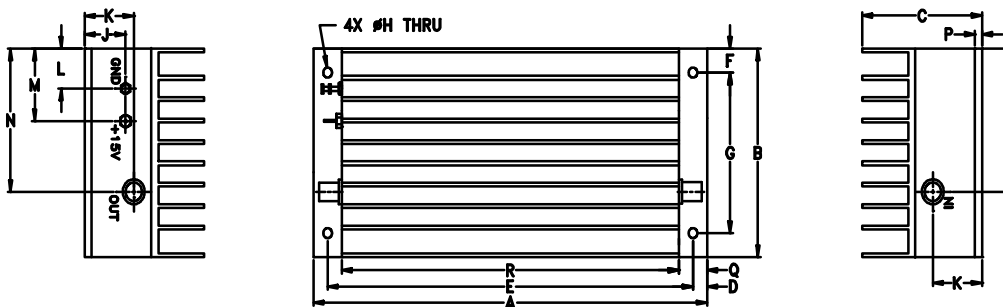
MODEL NO.	FREQ. (MHz)		GAIN (dB)		MAXIMUM POWER OUTPUT (dBm)		DYNAMIC RANGE		VSWR (-1) Max.		DC POWER	
	f_L	f_U	Min.	Max.	(1 dB Compr.) Min.	Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (A) Max.
ZHL-4240	700	4200	40	±1.5*	+28	-5	8.0	+38	2.5	2.5	15	0.90

* 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



MOUNTING INFORMATION FOR MODELS WITHOUT HEATSINK

Outline Dimensions (inch/mm)

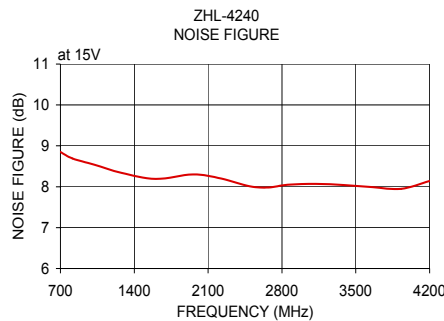
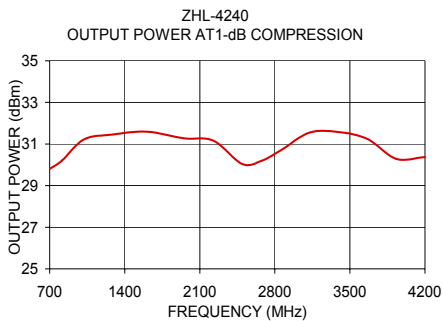
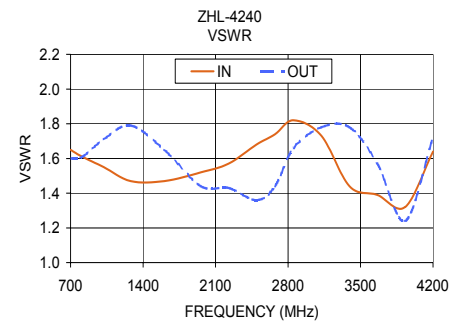
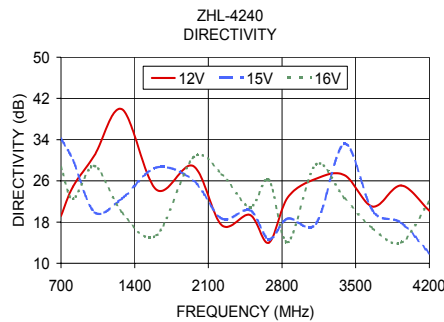
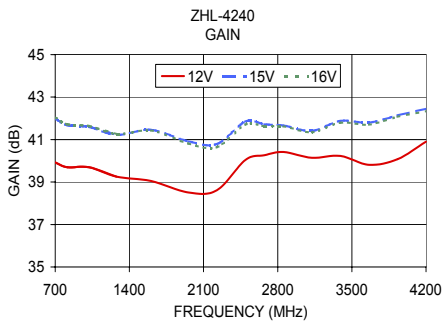
A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	wt
7.00	3.25	2.13	.25	6.500	.38	2.500	.156	.73	.88	.63	1.13	2.23	.125	.50	6.00	2.23	grams
177.80	82.55	54.10	6.35	165.10	9.65	63.50	3.96	18.54	22.35	16.00	28.70	56.64	3.18	12.70	152.40	56.64	900

Notes

- 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.
- 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	39.92	42.00	42.04	19.20	34.20	28.70	1.65	1.60	8.85	29.80
814.00	39.70	41.68	41.72	24.90	30.00	22.50	1.61	1.61	8.69	30.21
1020.00	39.70	41.60	41.64	31.00	19.90	28.90	1.55	1.71	8.54	31.22
1280.10	39.25	41.22	41.26	39.90	22.60	19.80	1.47	1.79	8.34	31.45
1605.20	39.05	41.46	41.43	24.30	28.60	15.40	1.47	1.65	8.19	31.59
1956.40	38.51	40.92	40.81	28.90	26.10	30.50	1.52	1.44	8.30	31.27
2225.60	38.61	40.79	40.64	17.40	18.70	27.30	1.57	1.43	8.20	31.16
2494.90	40.04	41.85	41.71	19.40	20.30	20.90	1.68	1.36	8.01	30.04
2674.40	40.26	41.72	41.63	14.00	14.70	26.20	1.74	1.44	7.98	30.19
2853.80	40.42	41.66	41.62	22.80	18.70	14.10	1.82	1.66	8.05	30.69
3123.10	40.14	41.41	41.35	26.40	17.70	29.20	1.73	1.78	8.07	31.55
3392.30	40.23	41.88	41.79	27.10	33.20	22.60	1.44	1.78	8.04	31.58
3661.50	39.81	41.80	41.70	21.00	20.20	16.80	1.39	1.57	7.99	31.25
3930.80	40.08	42.14	42.07	25.10	17.90	14.00	1.32	1.24	7.95	30.29
4200.00	40.90	42.45	42.34	20.20	11.90	22.10	1.64	1.72	8.14	30.37



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