Coaxial Amplifier

Medium High Power 10 to 4200 MHz 50Ω

Features

- wideband, 10 to 4200 MHz
- high IP3, +38 dBm typ.
- high gain, 39 dB min.

Applications

- communication systems
- cellular
- instrumentation
- laboratory

ZHL-4240W+



CASE STYLE: U36

Connectors Model SMA SMA

ZHL-4240W+ ZHL-4240WX+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications at 25°C

Parameter	Condition (MHz)	Min.	Тур.	Max.	Units
Frequency Range		10	—	4200	MHz
Gain	10-4200	39	42	47	dB
Gain Flatness	10-4200	—	±1.3	±1.8	dB
Output Power at 1dB compression*	10-4200	+28	+30	_	dBm
Output Power at 3dB compression**	10-4200	+29	+31	_	dBm
Noise Figure	10-4200	—	6.0	_	dB
Output third order intercept point	10-4200	_	+38	_	dBm
Input VSWR	10-4200	_	_	2.5	:1
Output VSWR	10-4200	_	_	2.5	:1
DC Supply Voltage		_	15	_	V
Supply Current		—	_	1.0	А

Open load is not recommended, potentially can cause damage.

With no load derate max. input power by 20 dB.

+27 dBm at 3700-4200 MHz

** +28 dBm at 3700-4200 MHz

Alternative heat sinking and heat removal must be provided by the user to limit maximum base-plate temperature to 65°C, in order to ensure proper performance. For reference, this requires thermal resistance of user's external heat sink to be 1.3°C/W max.

Maximum Ratings

Parameter	Ratings
Operating Temperature	-20°C to 65°C
Storage Temperature	-55°C to 100°C
DC Voltage	+20V
Input RF Power (no damage)	-5 dBm

Permanent damage may occur if any of these limits are exceeded.

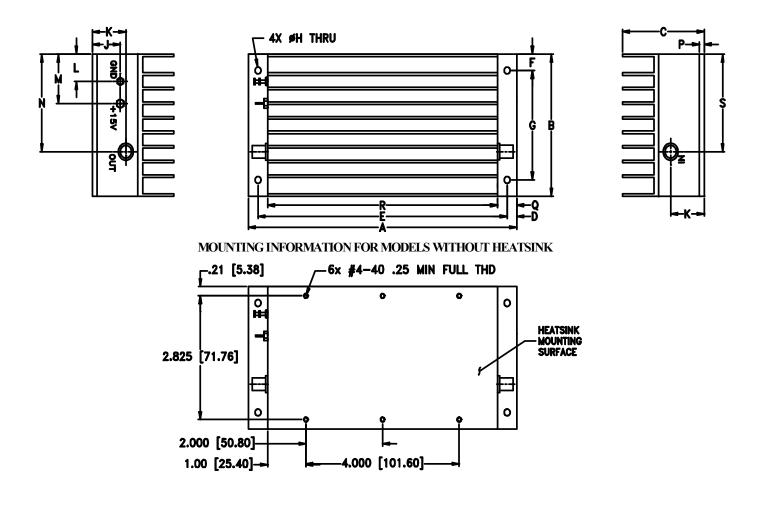
Notes

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. C. The parts covered by this specification document are subject to Mini-Circuit's standard limited warranty and terms and conditions (collectived), "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp



ZHL-4240W+

Outline Drawing for models with heatsink



Outline Dimensions (inch)

Α	В	С	D	E	F	G	н	J	K	L	М	Ν	Р	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

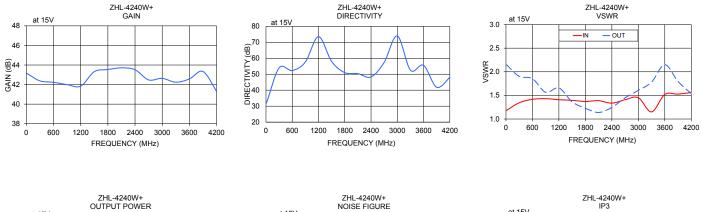
*600 grams without heatsink

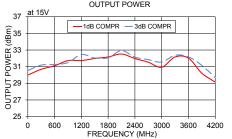
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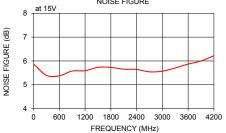


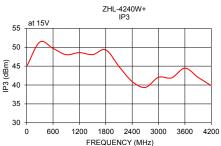
Typical Performance Data/Curves

FREQUENCY (MHz)	GAIN (dB) 15V	DIRECTIVITY (dB) 15V	VS (:	WR 1)	POUT at 1 dB COMPR. (dBm)	NOISE FIGURE (dB)	IP3 (dBm)	
			IN	OUT	15V	15V	15V	
10	43.15	31.85	1.18	2.15	30.01	5.85	45.17	
300	42.38	53.96	1.34	1.90	30.69	5.40	51.40	
600	42.23	52.31	1.42	1.85	31.11	5.37	49.71	
900	41.99	57.66	1.43	1.57	31.72	5.58	48.03	
1200	41.84	73.51	1.41	1.66	31.73	5.59	48.59	
1500	43.32	57.99	1.40	1.36	31.98	5.73	48.05	
1800	43.54	51.00	1.37	1.23	32.16	5.73	49.30	
2100	43.71	50.38	1.39	1.14	32.52	5.65	44.92	
2400	43.52	48.29	1.34	1.25	31.97	5.64	40.93	
2700	42.48	57.42	1.41	1.45	31.53	5.54	39.37	
3000	42.64	73.99	1.45	1.61	30.93	5.57	42.05	
3300	42.24	52.54	1.15	1.78	32.17	5.71	41.91	
3600	42.57	55.54	1.52	2.15	32.02	5.87	44.47	
3900	43.34	41.82	1.53	1.80	30.21	6.00	42.03	
4200	41.30	48.10	1.56	1.54	29.15	6.22	39.84	









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