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TECHNOLOGY GROUP

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with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
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Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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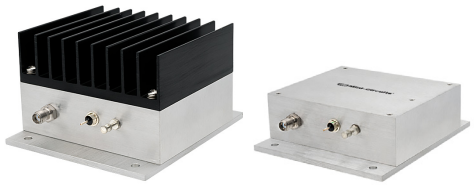
Medium High Power Amplifier

ZHL-1042J+
ZHL-1042JX+

50Ω 10 to 4200 MHz SMA Female

FEATURES

- Wideband, 10 to 4200 MHz
- High Output IP3, +35 dBm Typ.
- Low Noise, 6 dB Min.



Generic photo used for illustration purposes only

Model No.	ZHL-1042J+	ZHL-1042JX+▲
Case Style	NN92	
Connectors	SMA female	

+RoHS Compliant
The +Suffix identifies RoHS Compliance.
See our website for methodologies and qualifications

APPLICATIONS

- Communication Systems
- Laboratory

ELECTRICAL SPECIFICATIONS AT +25 °C

Parameter	Condition (MHz)	ZHL-1042J+ ZHL-1042JX+▲ Min.	Typ.	Max.	Units
Frequency Range		10		4200	MHz
Gain	10-4200	24	27	32	dB
Gain Flatness	10-4200		±1.2	±1.7	dB
Output Power at 1 dB Compression	10-4200	+20	+22		dBm
Output Power at 3 dB Compression	10-4200	+21	+23		dBm
Noise Figure	10-4200		6.0		dB
Output Third Order Intercept Point	10-4200		+35		dBm
Input VSWR	10-4200			2.5	:1
Output VSWR	10-4200			2.5	:1
DC Supply Voltage			+15		V
Supply Current				0.330	A

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

▲ Heat sink not included. 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 2.2°C/W max.

ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-20 °C to +65 °C
Storage Temperature	-55 °C to +100 °C
DC Voltage	+20 V
Input RF Power (No Damage)	+10 dBm

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

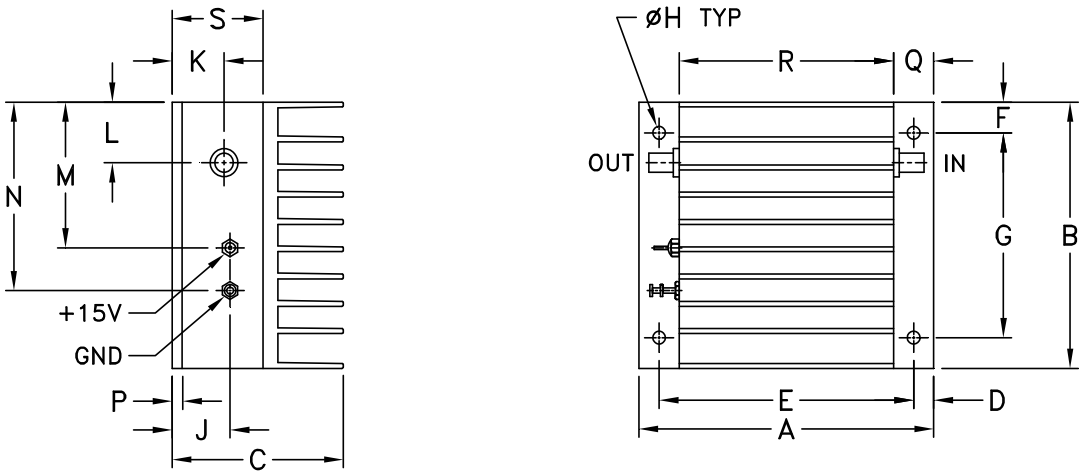
REV. G
ECO-018348
ZHL-1042J+
MCL NY
260210

Medium High Power Amplifier

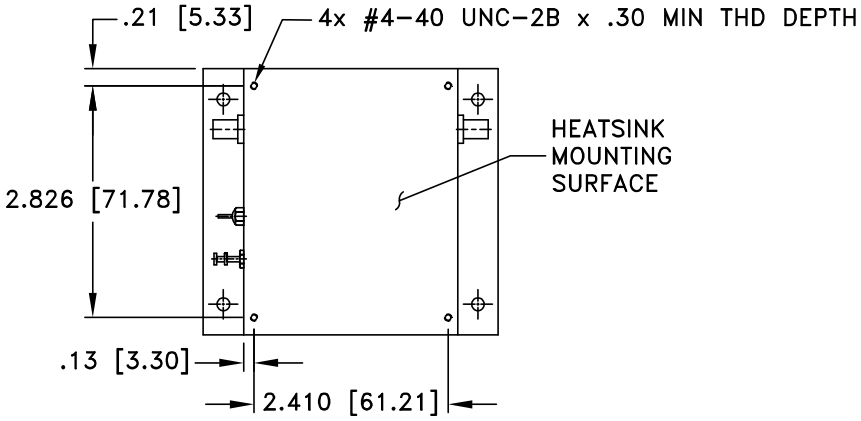
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OUTLINE DRAWING FOR MODELS WITH HEATSINK



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
3.66	3.25	2.13	.25	3.16	.38	2.50	.156	.72	.64	.74	1.78	2.30	.125	.50	2.66	1.13	grams*
92.96	82.55	54.10	6.35	80.26	9.65	63.50	3.96	18.29	16.26	18.80	45.21	58.42	3.18	12.70	67.56	28.7	500.0

*362 grams without heatsink

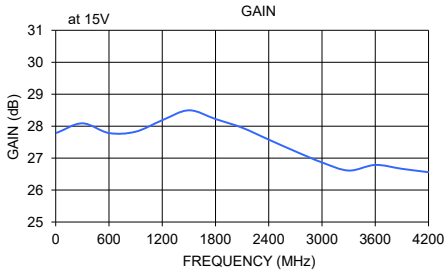
Medium High Power Amplifier

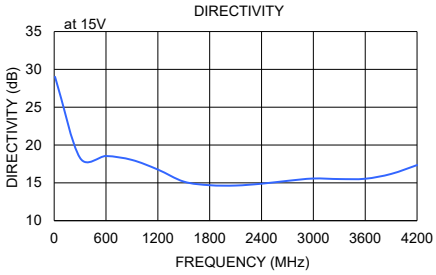
ZHL-1042J+
ZHL-1042JX+

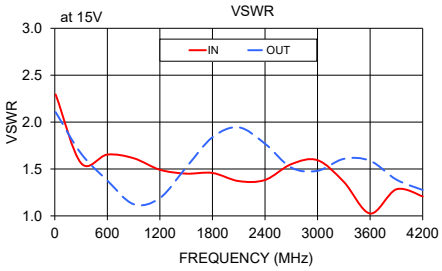
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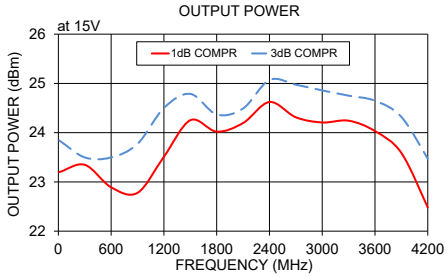
TYPICAL PERFORMANCE DATA/CURVES

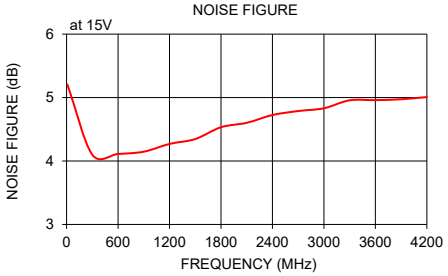
FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR (:1) +15 V		P_{OUT} at 1 dB COMPR. (dBm)	NOISE FIGURE (dB)	OIP3 (dBm)
	+15 V	+15 V	IN	OUT	+15 V	+15 V	+15 V
10	27.79	29.01	2.29	2.11	23.20	5.21	33.56
300	28.09	18.28	1.56	1.67	23.35	4.10	38.81
600	27.78	18.55	1.65	1.38	22.89	4.11	40.42
900	27.83	18.03	1.62	1.12	22.78	4.15	42.12
1200	28.19	16.76	1.49	1.19	23.51	4.27	45.58
1500	28.50	15.16	1.45	1.52	24.25	4.35	49.14
1800	28.22	14.69	1.46	1.84	24.02	4.53	46.70
2100	27.95	14.64	1.37	1.94	24.20	4.60	44.94
2400	27.58	14.89	1.38	1.77	24.62	4.72	48.99
2700	27.21	15.26	1.55	1.51	24.31	4.79	47.16
3000	26.86	15.57	1.59	1.48	24.21	4.83	43.89
3300	26.61	15.50	1.36	1.61	24.24	4.96	42.27
3600	26.79	15.54	1.03	1.59	24.03	4.96	41.05
3900	26.67	16.18	1.28	1.39	23.59	4.97	39.79
4200	26.56	17.35	1.21	1.28	22.48	5.01	38.07

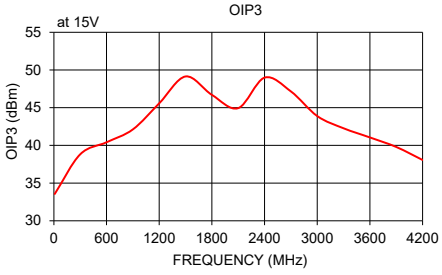












NOTES

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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