

Coaxial Amplifier

50Ω Medium Power 10 to 4200 MHz

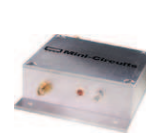
ZHL-1042J+ ZHL-1042J

Features

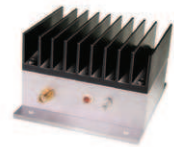
- wideband, 10 to 4200 MHz
- high IP3, +30 dBm typ.
- low noise, 6 dB typ.

Applications

- laboratory
- communication systems



ZHL-1042JX-S



ZHL-1042J-S

CASE STYLE: NN92

Connectors	Model	Price	Qty.
SMA	ZHL-1042J(+)	\$495.00 ea.	(1-9)
SMA	ZHL-1042JX	\$485.00 ea.	(1-9)

+RoHS Compliant

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

Electrical Specifications

MODEL NO.	FREQ. (MHz)		GAIN (dB)			MAXIMUM POWER OUTPUT (dBm)		DYNAMIC RANGE		VSWR (:1) Typ.		DC POWER	
	f _L	f _U	Typ.	Min.	Max.	(1 dB Compr.)	Input (no damage)	NF (dB)	IP3 (dBm)	In	Out	Volt (V) Nom.	Current (A) Max.
ZHL-1042J(+)	10	4200	—	25	±1.5	+20	+10	6	+30	2.5	2.5	15	0.330
ZHL-1042JX*	10	4200	—	25	±1.5	+20	+10	6	+30	2.5	2.5	15	0.330

* Heat sink not included

Open load is not recommended, potentially can cause damage.

With no load derate max input power by 20 dB

To order without heat sink, add suffix X to model number. Alternative heat sinking and heat removal must be provided by the user to limit maximum 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.

Maximum Ratings

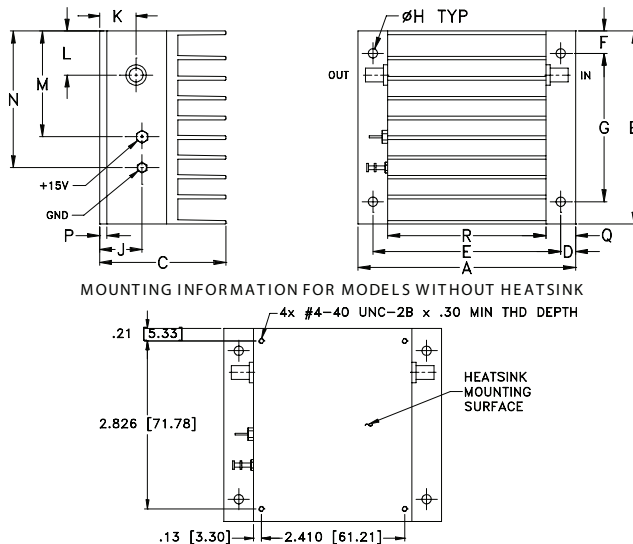
Operating Temperature -20°C to 65°C

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	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	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	500.0

*362 grams without heatsink



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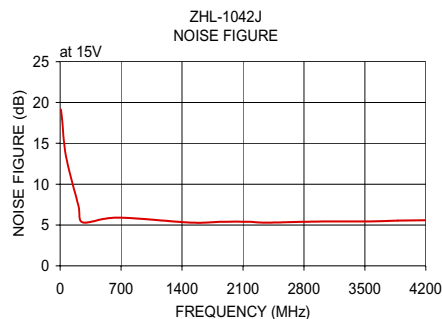
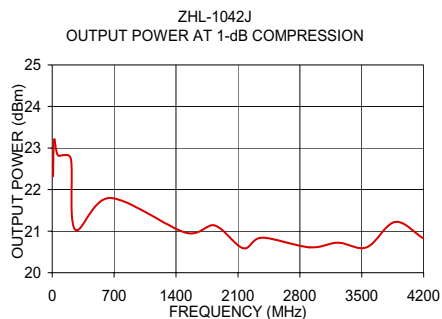
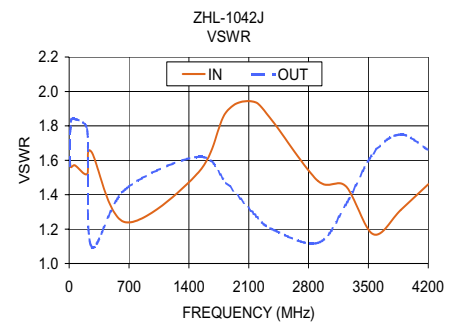
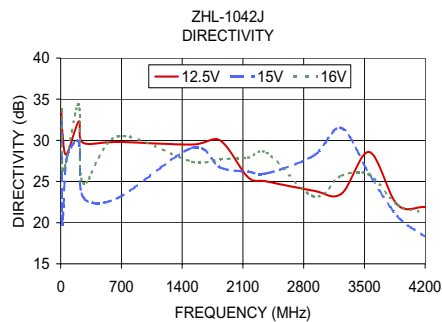
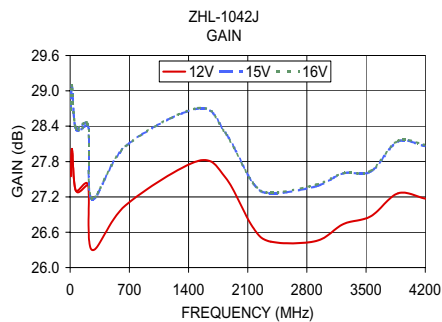
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For detailed performance specs & shopping online see web site

Typical Performance Data/Curves

ZHL-1042J+ ZHL-1042J

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	27.55	28.68	28.68	33.40	32.60	33.80	1.60	1.57	19.14	22.32
21.40	28.01	29.08	29.09	30.70	19.80	26.40	1.56	1.83	17.99	23.20
67.00	27.31	28.36	28.37	28.30	27.70	27.50	1.57	1.84	13.37	22.82
209.90	27.41	28.43	28.44	32.30	29.80	34.40	1.52	1.78	7.36	22.75
258.50	26.30	27.16	27.18	29.70	23.10	24.80	1.65	1.10	5.34	21.04
657.20	27.06	28.06	28.06	29.80	23.00	30.50	1.24	1.43	5.90	21.80
1514.10	27.81	28.70	28.71	29.50	29.10	27.40	1.53	1.62	5.28	20.96
1836.40	27.53	28.29	28.28	30.00	26.70	27.70	1.88	1.47	5.40	21.14
2158.70	26.69	27.44	27.44	25.50	26.20	27.90	1.94	1.29	5.39	20.59
2373.60	26.44	27.26	27.27	25.00	26.00	28.50	1.83	1.20	5.30	20.84
2910.80	26.45	27.38	27.41	23.90	28.10	23.20	1.48	1.12	5.41	20.61
3233.10	26.74	27.60	27.60	23.50	31.50	25.70	1.45	1.34	5.43	20.72
3555.40	26.87	27.63	27.64	28.60	25.90	25.80	1.17	1.64	5.43	20.61
3877.70	27.26	28.14	28.15	22.20	20.80	22.20	1.31	1.75	5.55	21.22
4200.00	27.17	28.06	28.08	21.90	18.30	21.20	1.46	1.66	5.58	20.82



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