

High IP3

Low Noise Amplifier

ZHL-1010+

50Ω Medium High Power 50 to 1000 MHz

Features

- wideband, 50 to 1000 MHz
- low noise, 3.5 dB typ.
- high IP3, +46 dBm typ.
- very high IP2, 68-83 dBm typ.

Applications

- VHF/UHF
- cellular
- laboratory
- test equipment
- instrumentation



CASE STYLE: S32

Connectors	Model
SMA	ZHL-1010+

+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) Max.		DC POWER	
	f_L	f_U	Min.	Max.	(1 dB Compr.) Min.	Input ¹ (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In ²	Out	Volt (V) Nom.	Current (A) Max.
ZHL-1010+	50	1000	9.5	±0.6	+26	+22	3.5	+46	2.0	2.0	12	0.525

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

2. Input VSWR may degrade at 50-150 MHz up to 2.2:1.

Maximum Ratings

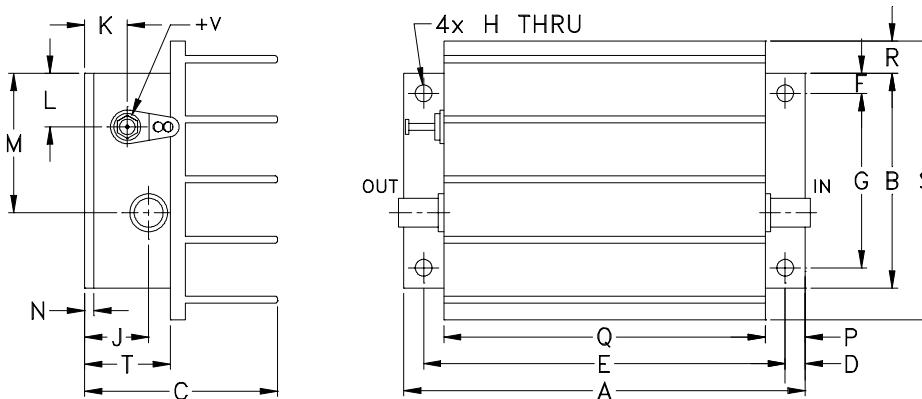
Operating Temperature -20°C to 65°C

Storage Temperature -55°C to 100°C

DC Voltage +13V 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	T	wt
3.75	2.00	1.80	.19	3.375	.19	1.625	.144	.50	.40	.50	1.30	.10	.38	3.00	.30	2.60	.80	grams
95.25	50.80	45.72	4.83	85.73	4.83	41.28	3.66	12.70	10.16	12.70	33.02	2.54	9.65	76.20	7.62	66.04	20.32	220.0

Notes

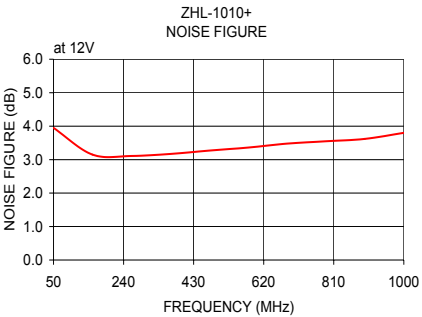
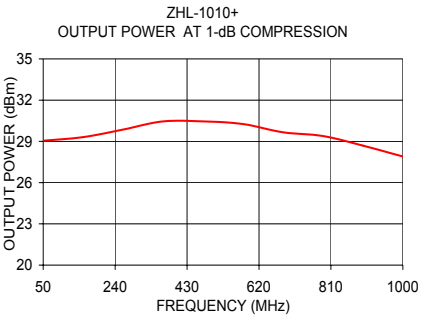
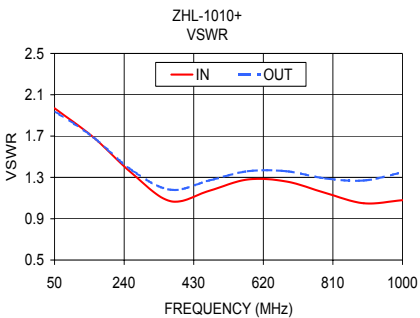
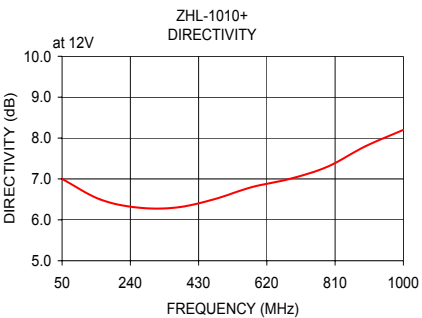
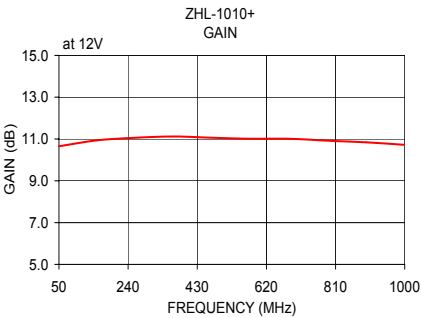
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www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

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FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	12V	12V	IN	OUT	12V	12V
50.00	10.65	7.00	1.97	1.94	3.95	29.05
155.60	10.94	6.50	1.69	1.69	3.15	29.31
261.10	11.06	6.30	1.34	1.37	3.11	29.86
366.70	11.12	6.30	1.07	1.18	3.17	30.45
472.20	11.06	6.50	1.17	1.27	3.27	30.45
577.80	11.01	6.80	1.28	1.36	3.36	30.26
683.30	11.01	7.00	1.26	1.36	3.48	29.66
788.90	10.92	7.30	1.15	1.29	3.55	29.39
894.40	10.84	7.80	1.05	1.27	3.62	28.69
1000.00	10.72	8.20	1.08	1.35	3.80	27.90



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