

High IP3 Low Noise Amplifier

ZHL-2010+ ZHL-2010

50Ω Medium High Power 50 to 1000 MHz

Features

- wideband, 50 to 1000 MHz
- low noise, 3.7 dB typ.
- high IP3, +46 dBm typ.
- very high IP2, 68-83 dBm typ.

Applications

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



CASE STYLE: S32

Connectors	Model	Price	Qty.
SMA	ZHL-2010(+)	\$169.95	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

Electrical Specifications

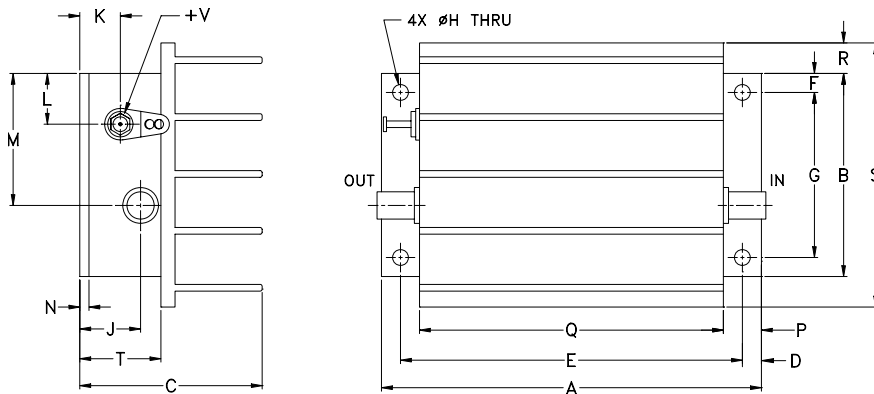
MODEL NO.	FREQ. (MHz)		GAIN (dB)		MAXIMUM POWER OUTPUT (dBm)		DYNAMIC RANGE		VSWR (-1) Max.		DC POWER	
	f_L	f_U	Min.	Flatness Max.	(1 dB Compr.) Min.	Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (A) Max.
ZHL-2010(+)	50	1000	20	±0.8	+26	+11	3.7	+46	2.0	2.0	12	0.90

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	+13V Max.

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

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RF/IF MICROWAVE COMPONENTS

REV. A
M104969
ZHL-2010
080407
Page 1 of 2

Typical Performance Data/Curves

FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR (:1)		NOISE FIGURE (dB)	P _{OUT} at 1 dB COMPR. (dBm)
	12V		IN	OUT		
50.00	22.48	10.50	1.29	1.30	3.98	29.22
155.60	22.24	11.10	1.63	1.65	3.29	29.45
261.10	22.08	11.60	1.66	1.69	3.19	30.35
366.70	22.26	11.30	1.38	1.42	3.22	30.65
472.20	22.40	11.40	1.16	1.19	3.35	30.17
577.80	22.38	11.90	1.20	1.20	3.45	29.50
683.30	21.83	13.40	1.16	1.31	3.64	29.67
788.90	22.09	13.10	1.17	1.23	3.72	28.88
894.40	22.02	13.70	1.29	1.23	3.86	28.45
1000.00	22.10	14.30	1.35	1.21	4.08	28.15

