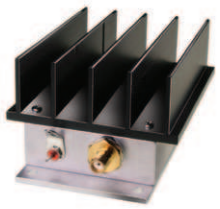
High IP3

Low Noise Amplifier

ZHL-1010+

50Ω Medium High Power 50 to 1000 MHz



CASE STYLE: S32

Connectors	Model	Price	Qty.
SMA	ZHL-1010+	$149.95	(1-9)

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

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

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

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-1010+	50	1000	9.5	±0.6	+26	+22	3.5	+46	2.0	2.0	12	0.525

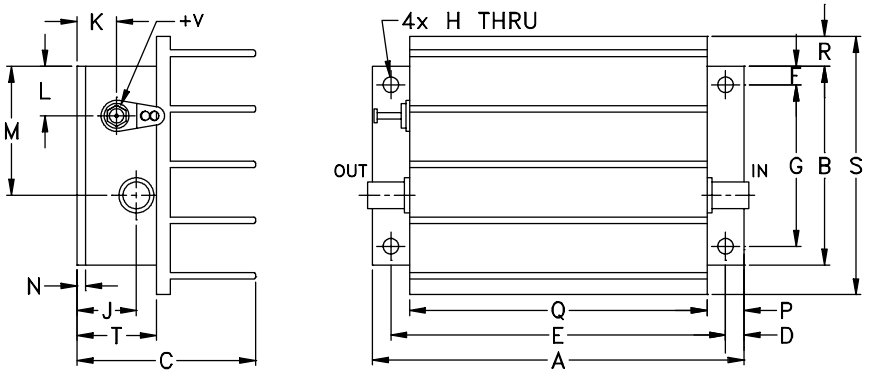
Open load is not recommended, potentially can cause damage.
With no load derate max input power by 20 dB

Maximum Ratings

Operating Temperature	-20°C to 65°C
Storage Temperature	-55°C to 100°C
DC Voltage	+13V Max.

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

Typical Performance Data/Curves

ZHL-1010+

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