High IP3

Low Noise Amplifier

ZHL-3010+
ZHL-3010

50Ω Medium High Power 50 to 1000 MHz

Features
- wideband, 50 to 1000 MHz
- low noise, 5.5 dB typ.
- high IP3, +46 dBm typ.
- very high IP2, 68-83 dBm typ.
- protected by US Patent 6,943,629

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

CASE STYLE: S32

Connectors	Model	Price	Qty.
SMA	ZHL-3010+	$179.95	(1-9)
SMA	ZHL-3010	$179.95	(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-3010(+)	50	1000	30	±1.0	+26	-3	5.5	+46	2.5	2.0	12	1.0

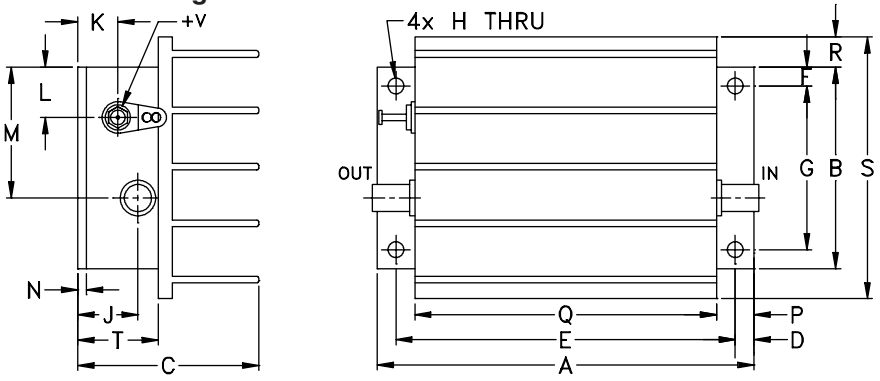
Open load is not recommended, potentially can cause damage.
With no load derate max input power by 20 dB

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

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	36.37	16.10	1.78	1.28	5.14	29.62
155.60	36.23	15.10	2.12	1.77	5.19	30.12
261.10	36.00	15.80	2.19	1.81	5.40	30.67
366.70	36.09	16.50	2.04	1.44	5.44	31.55
472.20	36.21	16.40	1.94	1.07	5.46	30.87
577.80	36.00	15.30	1.91	1.15	5.40	30.76
683.30	35.30	18.20	1.74	1.18	5.30	30.08
788.90	35.60	18.60	1.88	1.01	5.24	30.18
894.40	35.48	17.40	2.08	1.27	5.33	29.93
1000.00	35.29	20.20	2.04	1.56	5.43	28.74