

# 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

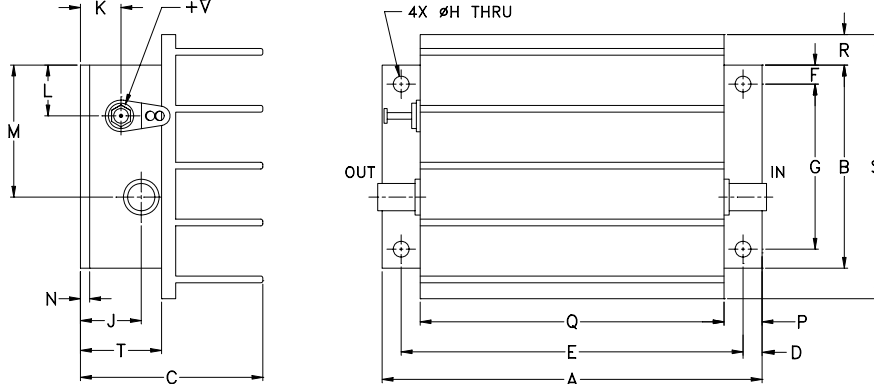
Open load is not recommended, potentially can cause damage.  
With no load derate max input power by 20 dB

### 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

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ISO 9001 ISO 14001 AS 9100 CERTIFIED

For detailed performance specs & shopping online see web site

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IF/RF MICROWAVE COMPONENTS

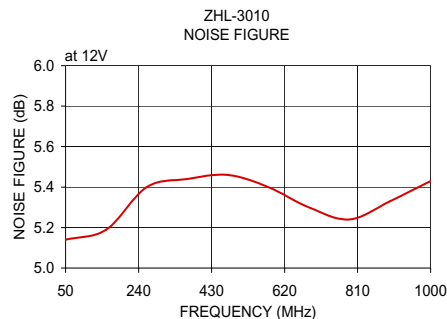
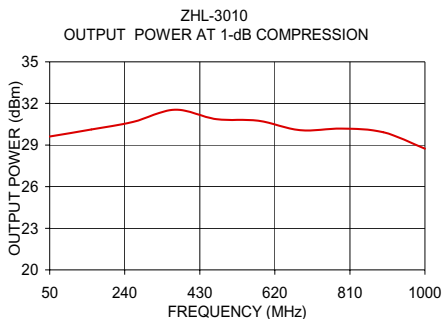
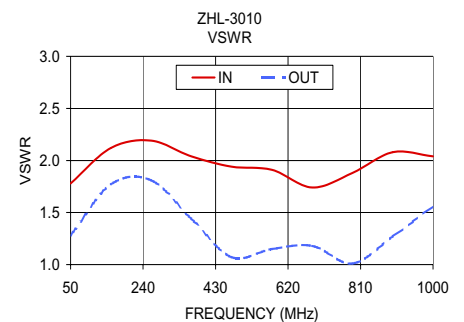
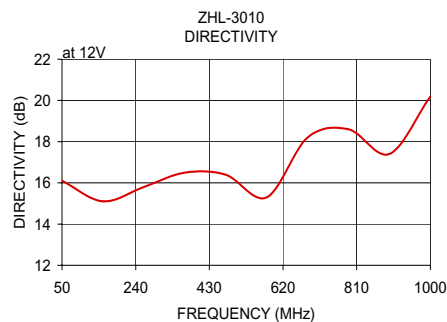
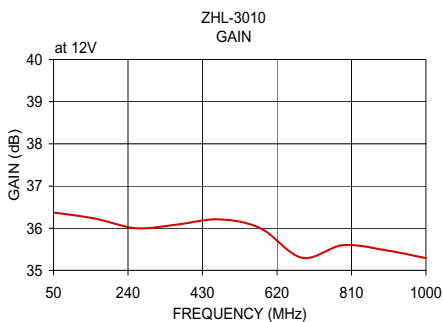
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# ZHL-3010+ ZHL-3010

## 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



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