

High Power (+30 dBm) AMPLIFIERS, BROADBAND

ZHL SERIES



MODEL	FREQUENCY	Z (Ohms)	COST
ZHL-1A	2 MHz - 500 MHz	50	\$199 (1-9)
ZHL-2	10 MHz - 1000 MHz	50	\$349 (1-9)
ZHL-2-8	10 MHz - 1000 MHz	50	\$449 (1-9)
ZHL-3A	0.4 MHz - 150 MHz	50	\$199 (1-9)
ZHL-32A	50 KHz - 130 MHz	50	\$199 (1-9)

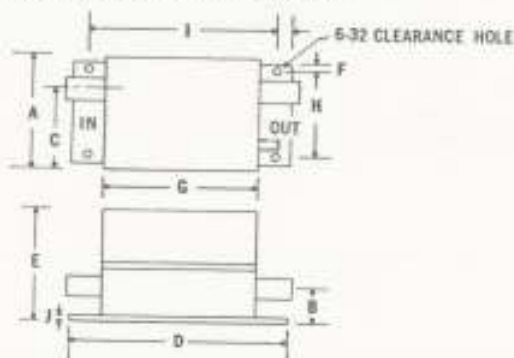
DESCRIPTION—The ZHL RF power amplifiers are capable of providing approximately 1 watt of power output over a broad frequency range from 50 KHz to 1000 MHz. Using an ultra linear Class A design, the ZHL provides a minimum of 16 dB gain over the full frequency range. Gain flatness is typically within ± 0.5 dB. The ZHL provides a minimum gain of 24 dB.

The ZHL is unconditionally stable and can be connected to any load impedance without amplifier damage or oscillation. Having a two stage design, and incorporating a highly reliable power output transistor enables the ZHL to be designed for reliability of performance.

BNC connectors are supplied. Housed in a $\frac{3}{8}$ inch aluminum case, the ZHL is constructed to withstand tough environments. This rugged case includes a hefty heat sink as an integral part of the case construction.

The high performance ZHL is offered at a remarkable price of $\frac{1}{2}$ to $\frac{1}{3}$ the cost of competitive units.

DIMENSIONS AND CONNECTIONS



		A	B	C	D	E	F	G	H	I	J
ZHL	IN.	2.60	.58	1.30	4.75	2.23	.23	4.00	1.54	4.375	.09
	CM.	6.60	1.47	3.30	12.07	5.61	.58	10.16	3.91	11.113	.23
ZHL-A	IN.	2.60	.565	1.60	3.75	1.84	.187	3.00	1.825	3.375	.09
	CM.	6.60	1.69	4.06	9.52	4.67	.47	7.62	4.13	8.57	.23

Connectors: BNC (std), SMA on request, add \$10 to unit cost.

WEIGHT:

ZHL-A	220 grams	.49 lbs.
ZHL	400 grams	.88 lbs.

FEATURES

- High Power: 1 watt output
- Broadband: 50 KHz to 1000 MHz
- Compact
- Connectors: BNC (SMA Add \$10 to unit price)
- Price: From \$199 (1-9)
- Very Flat Frequency Response: ± 0.5 dB typ
- Self Contained Heat Sink

APPLICATIONS

- Increase the output power of signal generators
- Intermodulation testing of components
- Broadband, high level isolators
- Provide linear gain in signal processing systems

ABSOLUTE MAXIMUM RATINGS

- Total Input Power: +20 dBm when output loaded, +10 dBm when output not loaded
- DC Supply Voltage: +24 V
- Operating Temperature: 0°C to +65°C
- Storage Temperature: -55°C to +100°C

NEW MODELS AVAILABLE

ZHL-210-1000 MHz
ZHL-2-810-1000 MHz
ZHL-32A 50 KHz-130 MHz

ONE WEEK DELIVERY

Mini-Circuits

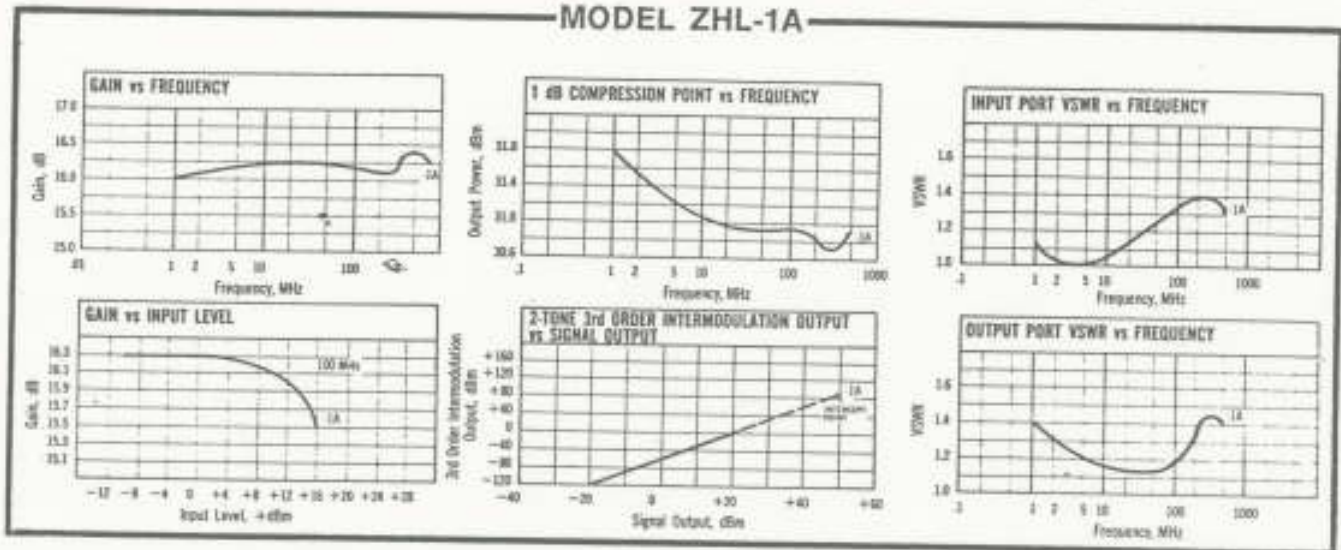
2625 E. 14th St., Brooklyn, NY 11235 (212) 769-0200/Dom. Telex 125460/int'l. Telex 620156

SPECIFICATIONS

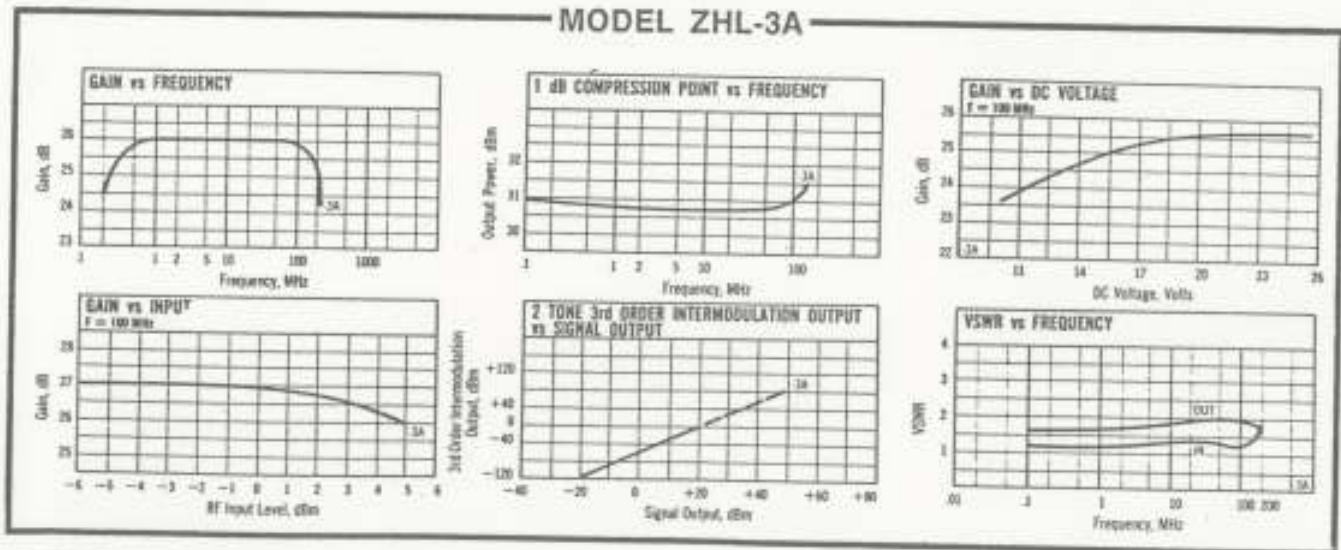
Model No.	Frequency Range MHz	Gain dB	Gain Flatness dB	Maximum Power Output dBm Compression	Noise Figure dB	Intercept Point 3rd Order	Impedance Ohms		VSWR, Max.		DC Power		Price (1-9)
							Input	Output	Input	Output	Voltage	Current	
ZHL-1A	2-500	16 Min.	±1.0 Max.	+28 Min.	11 Typ.	+38 Typ.	50	50	2:1	2:1	+24V	0.6A	\$199
ZHL-2	10-1000	16 Min.	±1.0 Max.	+29 Min.	18 Typ.	+38 Typ.	50	50	2:1	2:1	+24V	0.6A	\$349
ZHL-2-8	10-1000	27 Min.	±1.0 Max.	+29 Min.	10 Typ.	+38 Typ.	50	50	2:1	2:1	+24V	0.6A	\$449
ZHL-3A	0.4-150	24 Min.	±1.0 Max.	+29.5 Min.	11 Typ.	+38 Typ.	50	50	2:1	2:1	+24V	0.6A	\$199
ZHL-32A	0.05-130	25 Min.	±1.0 Max.	+27 Min.	10 Typ.	+33 Typ.	50	50	2:1	2:1	+24V	0.6A	\$199

COMMON SPECIFICATIONS: Total Input Power: +20 dBm. Operating Temperature: +0°C to +65°C. Storage Temperature: -55°C to +100°C.

MODEL ZHL-1A



MODEL ZHL-3A



PROMPT SERVICE / ONE WEEK DELIVERY