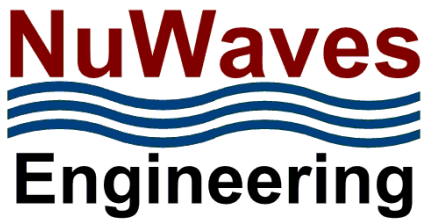


HILNA™ HF

High Intercept Low Noise Amplifier



FEATURES

- Low Noise and Extremely High Gain
- High Intercept Point
- Wide Dynamic Range
- Commandable AGC
- Internal Bandpass Filtering
- Rugged Assembly
- Low Cost
- Highly Reliable
- Wide Operational Voltage Range
- Over Voltage Protection
- Reverse Voltage Protection
- Internal Regulator / Active Bias
- SMA RF Connectors

APPLICATIONS

- Wideband RF Front Ends
- High Performance Receivers
- High Linearity Requirements
- Broadband Gain Block
- Low Noise Transmit Driver
- RF Preamplifier
- RF Repeater
- General Purpose Amplification
- Base Station LNA
- Various Military Radio & Communication Applications

HILNA™ HF DESCRIPTION

NuWaves' HILNA™ family of amplifiers are designed to achieve an unprecedented unique combination of amplifier attributes to include very low noise, high gain, high linearity, and broadband performance.



NuWaves' high performance amplifiers have been completely characterized over temperature, supply voltage, and frequency. NuWaves' robust amplifiers meet the demanding needs required in state-of-the-art RF systems.

HILNA™ HF CHARACTERISTICS

Operational:

Frequency Range.....	2 to 50 MHz
RF Gain.....	30 dB
Gain Flatness.....	± 2 dB
Noise Figure.....	5 dB
OIP3.....	+30 dBm
P1dB.....	+18 dBm
Operating Voltage.....	+20 to +30 Vdc
Current.....	300 mA (max)

Mechanical:

Size.....	3.15" x 2.5" x 1.18" (LxWxH)
Weight.....	5 oz

Environmental:

Operating Temperature.....	-30 to +70 °C
Storage Temperature.....	-40 to +85 °C

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