

HILNA™ V1

High Intercept Low Noise Amplifier



RF & Wireless Engineering

FEATURES AND HIGHLIGHTS

- Extremely low noise and high gain
- Fully Characterized Assembly
- High Intercept Point
- User Friendly
- Wide Dynamic Range
- Rugged Assembly
- Internal Regulator/Active Bias
- Low Cost
- Reverse Voltage Protection
- Highly Reliable
- Wide Operational Voltage Range
- Multi-Octave Frequency Coverage

APPLICATIONS

- Low Noise Applications
- RF Wideband Front-Ends
- RF Preamplifier
- High Linearity Requirements
- High Performance Receivers
- LNA for Cellular Base Stations
- General Purpose Amplification
- Amplification for Long Cable Runs
- IF / RF Buffer Amplifier
- RF Repeater
- Low Noise Transmit Driver
- Military Radios
- Broadband Gain Block

HILNA™ 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.

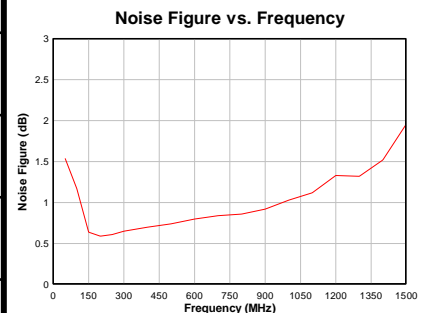
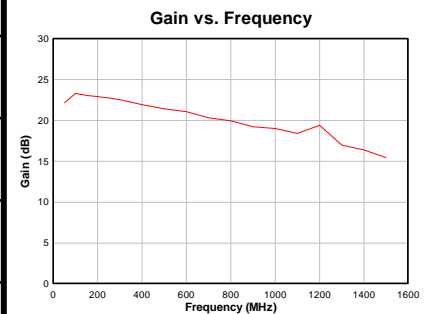


Options: Other Bandwidths (V2,V3), OEM sub-assembly,
Custom Solutions Available: (Gain, Filtering, Isolation, Form Factors)

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 systems.

HILNA™ V1 AMPLIFIER CHARACTERISTICS

Frequency	50 -1000 MHz (useable to 1500 MHz)
Gain	20 dB Typical
Noise Figure	0.8 dB Typical
OIP3	+32 dBm Typical
P1dB	+18 dBm Typical
Reverse Isolation	27 dB Typical
Current	70 mA Typical
Operating Voltage	+5 to +30 VDC
VSWR	1.3:1 (In), 1.5:1 (Out) Typical (50 Ω)



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