

HILNA™ GPS AMPLIFIER

High Intercept Low Noise Amplifier for GPS Signal Amplification



RF & Wireless Engineering

FEATURES AND HIGHLIGHTS

- Extremely low noise and high gain
- High Intercept Point
- Includes DC Power Cable Assembly
- Wide Dynamic Range
- Rugged Assembly
3.90"x3.92"x1.18" w/ mounts
- Internal Regulator/Active Bias
- Low Cost
- Reverse Voltage Protection
- Highly Reliable
- Wide Operational Voltage Range
- SMA RF Connectors
- L-Band Frequency Coverage

APPLICATIONS

- L1 and L2 GPS Amplifier
- RF L-Band 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
- Low Noise Applications
- 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.



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™ GPS AMPLIFIER CHARACTERISTICS

Frequency	1200 -1600 MHz
Gain	32 dB Typical
Noise Figure	0.95 dB Typical
OIP3	+31 dBm Typical
P1dB	+17 dBm Typical
Reverse Isolation	50 dB Typical
Current	140 mA Typical
Operating Voltage	+5 to +20 VDC
VSWR	1.5:1 (In), 1.9:1 (Out) Typical (50 Ω)

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