NuWaves Engineering

Trusted RF Solutions.™

µHILNA™
Low Noise Amplifier

P/N: µ-HILNA-V1

Covering VHF to L-band frequencies, NuWaves' µHILNA™ boasts the smallest form factor of the HILNA family of low noise amplifiers, designed to achieve high gain while maintaining low noise and a high third-order intercept point.

The µHILNA's miniature form factor of 1.13 cubic inches and weight of 0.5 oz. is ideal for systems that are SWaP constrained.

This high-performance module delivers 20 dB of gain over the broad range of 50 MHz to 1500 MHz with a noise figure of less than 1 dB and OIP3 of +31 dBm.

The µHILNA's robust power supply also operates over a very broad range easily allowing the unit to be integrated into systems without regard to power supply precision.

Features

- Broadband Operation
- Miniature Form Factor
- Lightweight
- Low Noise and High Gain
- High Intercept Point
- Rugged Chassis
- Over-Voltage Protection
- Reverse-Voltage Protection
- Wide Input Voltage Range

Applications

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

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µHILNA™ Low Noise Amplifier

Specifications

Operational

Frequency Range	50 MHz to 1500 MHz
RF Gain	20 dB (typ)
Reverse Isolation	27 dB (typ)
Noise Figure	<1 dB (typ)
OIP3	+31 dBm (typ)
P1dB	+18 dBm (typ)
Supply Voltage	+5 to +12 VDC
Current Consumption	82 mA (max)
RF Connectors	SMA (Female)

Mechanical

Size	1.00" x 0.75" x 0.50" (L x W x H)
Weight	0.5 oz.

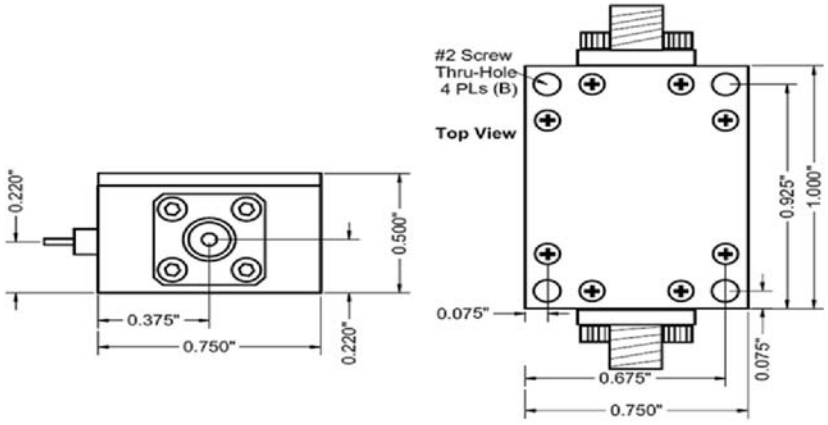
Environmental

Operating Temperature	-20 to +60 °C
Storage Temperature	-40 to +85 °C

Export

Classification	EAR99

Mechanical Outline



Contact NuWaves

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