

μHILNA™ Micro High Intercept Low Noise Amplifier



APPLICATIONS

- UAV LNA
- Low Noise Applications
- High Performance Receivers
- LNA for Cellular Base Stations
- General Purpose Amplification
- Amplification for Long Cable Runs
- RF Repeater
- Various Military Radio & Communication Applications
- Broadband Gain Block
- Industrial Scientific Medical Band Applications
- L1 and L2 GPS Amplifier

FEATURES AND HIGHLIGHTS

- Mounts using #2 Hardware
- Extremely low noise and high gain
- ESD Protection
- Cascadable
- High Intercept Point
- Wide Dynamic Range
- Rugged Outside Casing
- Wide Operational Voltage Range
- Low Cost
- Multi-Octave Frequency Buffer
- Internal Regulator/ Active Bias

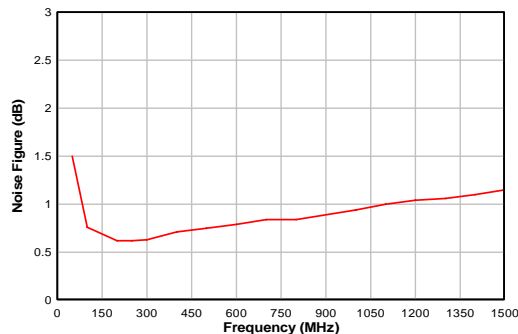
μHILNA™ DESCRIPTION

The μHILNA is the latest addition to the HILNA family of low noise, high gain, high intercept and wideband amplifiers that is light weight and micro in size. The ultra small design of this device – outside dimensions: (1.00" x .75" x .50") is ideal for system integration for RF devices where foot print is a determining factor. This ultra, but sturdy and reliable design has features found in other HILNA models, but at 1/8 the size and weight.

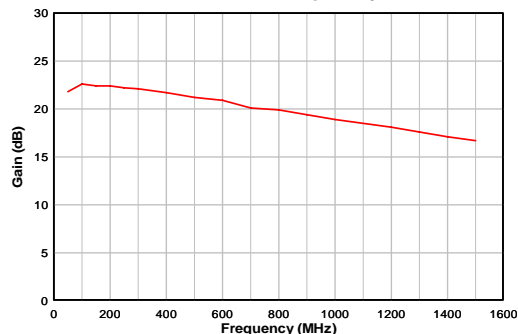


μHILNA™ AMPLIFIER CHARACTERISTICS

Noise Figure vs. Frequency



Gain vs. Frequency



Operating Frequency	50-1500MHz
I/O Impedance	50 Ohms
OIP3	+31 dBm Typical
P1dB	+18 dBm Typical
Reverse Isolation	27 dB Typical
Current	83 mA Typical
Operating Voltage	+5 to +12 VDC

	Frequency (MHz)			
	100	500	1000	1500
RF Gain (dB)	22	21	19	16
Noise Figure (dB)	0.76	0.75	0.94	1.15
VSWR	1.3	1.4	1.5	2.0

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