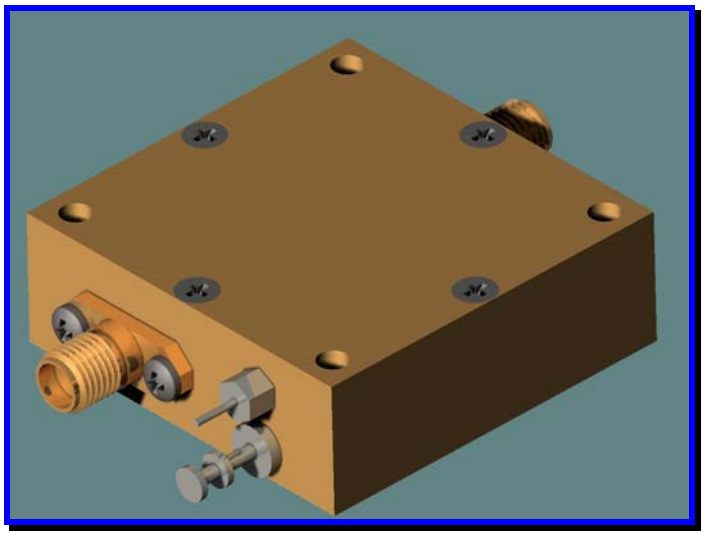

LNA Series Pre-Amplifier

- Greater than 20 dB gain
- Low Noise Figure
- Excellent 3rd Order IP
- L / S, and C – Band Models
- 12 Vdc operation
- Low Power Consumption
- Compact Size
- Rugged Packaging

LNA Series Microwave Low Noise Amplifier

The LNA Series provides additional RF gain in systems utilizing long cable runs between the antenna output and receiver input. Available in L, S, and C – Bands, the LNA-100 provides a minimum of 20 dB of gain. The LNA-100 can improve link margin and system performance. The outstanding noise figure performance of the LNA-100 will not degrade receive system performance. A high compression point provides reliable operation even in high RF level environments. Packaged in a rugged aluminum housing, the single-board electronics construction guarantees long-term reliability. The amplifier operates from a 12 Vdc supply and may be optionally configured to operate from a bias-tee arrangement. SMA input and output connectors are standard The LNA Series amplifier is well suited for applications in surveillance, law enforcement, military UAV and RPV, remote broadcast, video production, and data/telemetry.

LNA Series Microwave Low Noise Amplifier

Technical Specifications

Electrical:

- Frequency Range
  - LNA 100 L/S – 1.7 to 2.5 GHz
  - AT 100 C1 – 3.1 to 3.5 GHz
  - AT 100 C2 – 4.4 to 5.0 GHz
- Noise Figure
  - L/S Band – 1.2 dB max.
  - C Band – 1.6 dB max.
- Gain – + 20 dB minimum (25 dB typ.)
- P_1 dB – + 10 dBm
- OIP3 – + 25 dBm
- Input Voltage -- +10 - +15 Vdc
- Current Consumption – 80 mA max.

Environmental:

- Operating temperature: -10 to +65 °C
- Relative Humidity: 0 to 95%, non-condensing

Mechanical:

- RF Input – SMA female
- Dimensions – 0.5 H x 1.6 W x 1.6 L inches
- Power Input – Pin terminal
- RF Output – SMA female
- Weight – 1.1 oz.
- Mounting – Four #4 clearance holes

Options:

TEE-1 Configured for bias-tee operation on RF output

Accessories:

Interconnect Cables: Specified lengths of high quality, low-loss, interconnect coaxial cables are available.

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