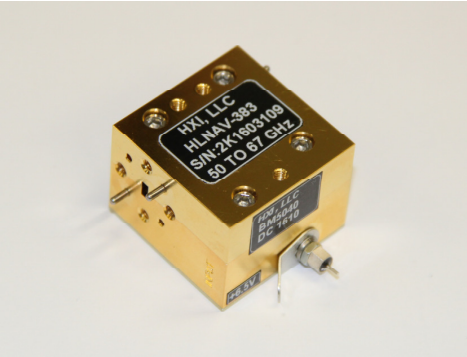
# Model HLNAV-383
# 57 to 66 GHz High Gain Low Noise Amplifier




APPLICATIONS

- Point-to-Point Radios
- Radar Transmitters
- WiGig Development & Test Equipment

The HLNAV-383 High Gain Low Noise Amplifier covers the frequency range from 50 to 67 GHz. MMIC technology is employed for high reliability and repeatability. The amplifier package provides WR-15 waveguide interfaces in an in-line configuration using the standard UG-385/U flange. The amplifier can be used in receivers for communication and radar systems and also for amplification in test equipment. The LNA contains a voltage regulator and bias sequencing circuitry allowing the use of a single bias to power the amplifier.

**TECHNICAL SPECIFICATIONS**

| Parameter | Specification |
|---|---|
| Frequency Range | 50.0 to 67.0 GHz |
| Noise Figure | 6.0 dB typical, 50-52 GHz<br>5.2 dB typical, 52-67 GHz |
| Small Signal Gain | 30 dB minimum, 50-65 GHz<br>29 dB minimum, 65-67 GHz |
| P1dB | +10 dBm minimum |
| Input Return Loss | 7 dB typical |
| Output Return Loss | 9 dB typical |
| Maximum Input Power | -17 dBm without damage |
| DC Bias | +6 VDC @ 325 mA typical |
| RF Interfaces | WR-15 waveguide, UG-385/U flanges |
| Size | 1.31”L X 1.34”W x 0.97”H |
| Surface Finish | Gold Plate |

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