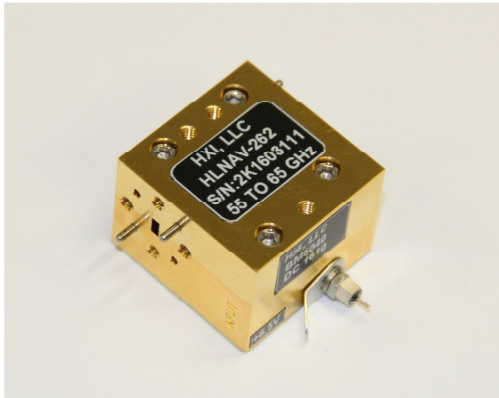


Model HLNAV-262 55 to 65 GHz Low Noise Amplifier

APPLICATIONS



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

The HLNAV-262 Low Noise Amplifier covers the frequency range from 55 to 65 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 | 55.0 to 65.0 GHz |
| Noise Figure | 4.8 dB typical |
| Small Signal Gain | 15 dB minimum, 17 dB typical |
| P1dB | +10 dBm minimum |
| Input Return Loss | 7 dB typical |
| Output Return Loss | 9 dB typical |
| Maximum Input Power | 0 dBm without damage |
| DC Bias | +6 VDC @ 175 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 |

12 Lancaster County Road, Harvard, Massachusetts 01451 Tel: (978) 772-7774 FAX: (978) 772-7775

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