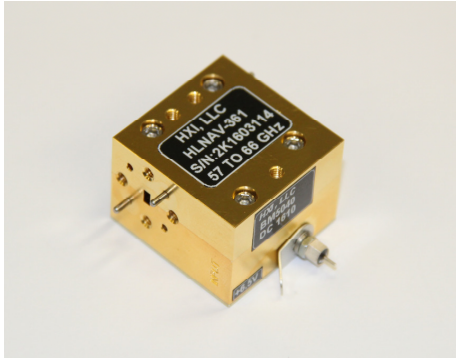


Model HLNAV-364 50 to 65 GHz Low Noise Amplifier

APPLICATIONS



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

The HLNAV-364 Low Noise Amplifier covers the frequency range from 50 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	50.0 to 65.0 GHz
Noise Figure	6.0 dB typical @ 50 GHz 5.2 dB typical, 52-67 GHz
Small Signal Gain	25 dB minimum
P1dB	+13 dBm typical
Input Return Loss	7 dB typical
Output Return Loss	13 dB typical
Maximum Input Power	-5 dBm without damage
DC Bias	+6 VDC @ 300 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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