

Model HLNAV-609 64 to 71 GHz Low Noise Amplifier

APPLICATIONS



- 5G Unlicensed Usage
- Point-to-Point Radios
- 5G and WiGig Development & Test Equipment

The HLNAV-609 Low Noise Amplifier covers the frequency range from 64 to 71 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	64.0 to 71.0 GHz
Noise Figure	5 dB typical 6.5 dB max
Small Signal Gain	18 dB minimum 20 dB typical
P1dB	+8 dBm minimum +10 dBm typical
Input Return Loss	10 dB typical
Output Return Loss	10 dB typical
Maximum Input Power	-5 dBm without damage
DC Bias	+6 VDC @ 90 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