



- DEM NBLNA-2M 144-148 MHz.
- DEM NBLNA-1.25M 222-225 MHz.
- DEM NBLNA-70CM 420-450 MHz.
- DEM NBLNA-33CM 902-928 MHz.
- DEM NBLNA-23CM 1280-1300 MHz.

Specifications:

Gain:	18dB nominal
Noise Figure:	<0.5dB
P1dB:	+21dBm output
Input VSWR:	>12dB
Output VSWR:	>10dB @ Design Frequency
Voltage:	+7 - +22 VDC
Current Drain	70mA nominal



Description:

Our new **Narrow Band** series of low noise amplifiers shares a common design that is utilized by all LNA's between 144 and 1300 MHz. Each LNA utilizes the ultra low noise QORVO QPL9547 MMMIC coupled with the latest in SAW filter technology optimized to the specific frequency band of operation. This new design technology produces a LNA that is more selective and more robust in reducing out of band interference.

This new design employs a higher linear output active device that exceeds all other DEMI LNA products. Because of this, the filtering is on the output circuit making every LNA band dependant. The NBLNA's are housed in a 1.75" L x 1" square machined enclosure. Only the difference in connector selection will alter the length measurement. Any combination of Type "N", BNC or SMA connectors may be selected.

This new LNA design does not offer any RF bypass switching for transceiver operation and therefore may only be utilized in receive only applications. It is offered with various types of RF connectors and connector combinations. This NB series LNA is ready to be "dropped in" to any pre-existing receive system or to be a component in a newly developed receive system.

Schematic Diagram of Standard NBLNA Design:

