DEM L33LNA / L23LNA Low Noise Amplifier
902-928 or 1280-1300 MHz.

Description:

The DEM L33LNA and L23LNA are new designs developed by Down East Microwave Inc. utilizing the combination of PHEMT and SAW filter technology. The utilized active device is the QORVO TQP3M9037 MMIC amplifier that will provide Noise figure, Gain, and RF input power levels required by today's amateur radio enthusiasts. The difference between the two models is the selection of the Band Pass filters that prevent out of band signals from reaching your receiver. But because of this filtering, the LNA's maximum input power needs to be limited. The LNA's are offered with a robust machined enclosure that measures 1.8" L x 1.0" W x 0.9" H with various types of RF connectors and connector combinations. They are provided with a standard +DC feed through connector or +DC power may be provided through the coax if ordered as an option. This LNA design utilizes a machine assembled circuit board enabling us to offer it as a simple board kit or complete kit for anyone with basic soldering skills.

Specifications:

Model:	L33LNA	L23LNA
Gain:	17dB nominal	16dB nominal
Frequency Range	895 – 930 MHz	1280 – 1320 MHz
Noise Figure:	0.5dB Nominal	0.5dB Nominal
P1dB:	+13dBm output	+13dBm output
Input VSWR:	>6dB 500 - 3500 MHz	>6dB 500 - 3500 MHz
Output VSWR:	>10dB @. design frequency	>10dB @ design frequency
Voltage:	+7 - +22 VDC	+7 - +22 VDC
Current Drain	70 mA nominal	70 mA nominal
Max Input RF power	-5 dBm	-5 dBm