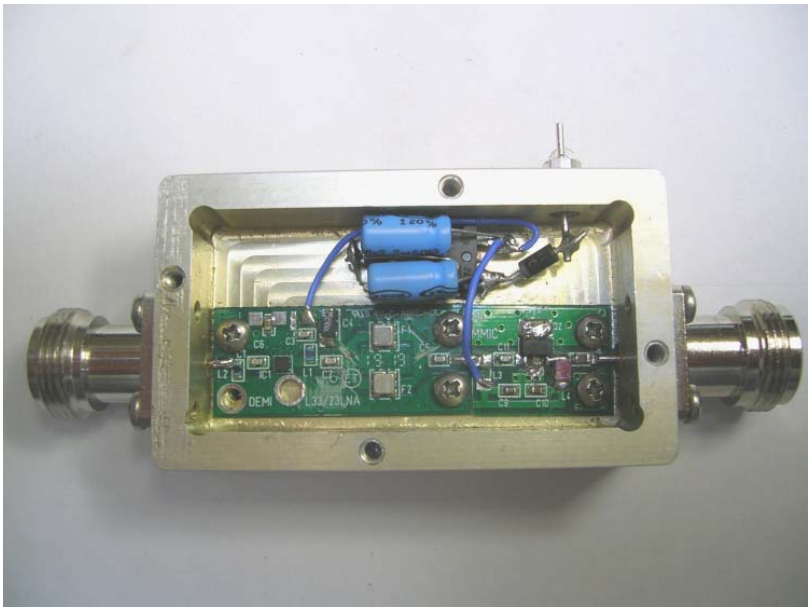
DEM L33LNAH and L23LNAH
Low Noise Amplifier

Specifications:

Model:	L33LNAH	L23LNAH
Gain:	30 dB nominal	30 dB nominal
Frequency Range	895 – 930 MHz	1280 – 1320 MHz
Noise Figure:	<0.5dB	<0.5dB
P1dB without Damage	+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

Description:



The DEM L33LNAH and L23LNAH is a custom built 2 stage PHEMT MMIC with a SAW filter to produce a LNA that provides a high gain, low noise LNA that is very immune to out of band interference. The active components are a QORVO TQP3M9037 and TQP3M9008 MMIC amplifiers. The difference between the 33 and the 23 is the selection of the Band Pass filters. The LNA's do not offer any RF bypass switching for transceiver operation and therefore may only be utilized in receive only applications. It is offered with a robust machined enclosure (approximate overall dimensions 3.5" x 1.5" x 0.9") and various types of RF connectors and connector combinations to allow any LNA to be "dropped in" to any pre-existing system or is ready to be a component in a newly developed receive system.