

MITEQ INC. introduces a new addition to its family of waveguide LNAs. AMFW-5F-33004000-50-10P-4WL is a very low noise Q-Band waveguide front end. WR-28 waveguide input and output amplifier is very light weight and has an extremely small profile and footprint. Aluminum alloy housing is environmentally sealed, EMI shielded and hermetic sealing option is also available. LNA includes reverse voltage, over current and over temperature protection in addition to full internal regulation.

Amplifier is capable of a minimum of 10 dBm of P1dB across the full band, 33 GHz to 40 GHz. Built in limiter can prevent damage from up to 5W of CW input.

Port VSWR is a maximum of 2.5 but typically 2:1 or less. Nominal small-signal gain is minimum 18 dB and maximum 22 dB while the noise figure is less than 5 dB. Gain flatness is 2 db peak-to-peak typical. Current draw is nominally 165 mA from a single positive 15V supply.



## Q-Band Waveguide Limiter LNA



- 33 to 40 GHz
- WR28 Input
- 18-22 dB Gain Window
- 10 dBm P1dB Min
- 5W Input Limiting
- 5 dB Typ. Noise Figure
- 15V DC / 165 mA
- +/- 1 dB Flat
- 2.5:1 Max VSWR

**AMFW-5F-33004000-50-15P-4WL**

