

Waveguide Low Noise Amplifiers up to 170 GHz



TECHNICAL SPECIFICATIONS

- Frequency Range**
 26.5–170 GHz across eight waveguide bands
- Q-Band (WR22)**
 33–50 GHz offering 25 dB or 38 dB gain
- V-Band (WR15)**
 50–75 GHz in 18 dB or 38 dB configurations
- W-Band (WR10)**
 75–110 GHz providing 18 dB, 35 dB, 38 dB, or 42 dB gain
- D-Band (WR6)**
 110–170 GHz offering 18 dB or 33 dB gain
- Ka-Band (WR28)**
 26.5–40 GHz with 23 dB, 35 dB, or 45 dB gain
- U-Band (WR19)**
 40–60 GHz with 18 dB, 33 dB, or 35 dB gain
- E-Band (WR12)**
 60–90 GHz with 18 dB or 38 dB gain
- F-Band (WR8)**
 90–140 GHz with 16 dB or 33 dB gain

APPLICATIONS

SATCOM & Earth Observation:
Ground station receivers and
satellite downlink systems
requiring ultra-low noise figures

Defense & Radar: High-
sensitivity radar receivers and
electronic warfare systems
operating across millimeter-
wave bands

5G/6G Research: Experimental
systems and infrastructure
development for next-
generation wireless networks

Scientific Instrumentation: Radio
astronomy, spectroscopy
equipment, and millimeter-wave
imaging systems