

Waveguide to Coax Adapters up to 170 GHz

TECHNICAL SPECIFICATIONS

- **Frequency Range**
Broadband coverage from WR2300 (3.95–5.85 GHz) to WR5 (up to 170 GHz)
- **Adapter Configurations**
End launch, double-ridge, right-angle, microstrip, elliptical-to-rectangular, and circular-to-waveguide topologies
- **Coaxial Interface Options**
SMA, 3.5 mm, 2.92 mm, and 1.85 mm connectors depending on frequency band
- **VSWR Performance**
Typical values <2.0:1 across standard frequency bands, with optimized designs for critical applications
- **Impedance**
Standard 50 Ω characteristic impedance for RF signal path compatibility
- **Construction Materials**
Precision-machined aluminum or brass bodies with gold-plated contact surfaces

APPLICATIONS

SATCOM Systems: Ground station antennas and satellite communication terminals requiring broadband waveguide-to-coax transitions

Defense and Military RF: Radar systems, electronic warfare (EW) equipment, and secure communication platforms operating across extended frequency ranges

5G/6G Infrastructure: High-frequency backhaul equipment and mmWave antenna assemblies utilizing waveguide-based feed networks

Test and Measurement: Network analyzer calibration, antenna characterization, and RF component evaluation across millimeter-wave bands