

Faraday Isolators up to 260 GHz



TECHNICAL SPECIFICATIONS

- **Frequency Range**
Up to 260 GHz in upper millimeter-wave band
- **Waveguide Standards**
WR42 to WR4 for complete frequency coverage
- **Configuration**
Fullband versions available to minimize component count
- **VSWR**
Optimized performance across specified frequency ranges
- **Insertion Loss**
Low-loss characteristics to preserve signal integrity
- **Isolation**
High isolation efficiency protecting downstream components from reflected signals

APPLICATIONS

5G/6G Infrastructure: Protection of power amplifiers and LNAs in base stations and backhaul systems

mmWave Radar: Automotive radar, industrial sensing, and security applications requiring isolation above 100 GHz

SATCOM: Uplink and downlink chain protection for satellite communication equipment

Defense & Aerospace: Electronic warfare, communication links, and sensor protection in high-frequency bands

Test & Measurement: Waveguide test fixtures and measurement systems in sub-terahertz bands

Research: Terahertz research platforms and experimental RF systems