

Waveguide Polarizer up to 325 GHz



TECHNICAL SPECIFICATIONS

- **Frequency range**
up to 325 GHz
- **Polarization conversion**
Rectangular-to-linear and linear-to-circular transformation
- **VSWR**
Optimized for minimal reflections
- **Customization**
Custom design options available for specialized requirements
- **Waveguide standards**
Rectangular waveguide configurations across WR-series
- **Insertion loss**
Low insertion loss characteristics across operational bandwidth
- **Interfaces**
Integration with standard waveguide interfaces

APPLICATIONS

SATCOM: Polarization control for satellite uplink and downlink systems at millimeter-wave frequencies

Defense & Radar: Advanced radar platforms requiring controlled polarization states for target detection and analysis

5G/6G: High-frequency cellular infrastructure and experimental sub-terahertz platforms for next-generation wireless networks

Automotive Radar: Collision avoidance and autonomous vehicle sensing systems operating at mmWave frequencies

Research & Instrumentation: Laboratory equipment, measurement systems and quantum computing applications requiring polarization-specific components