

Waveguide Couplers up to 325 GHz



TECHNICAL SPECIFICATIONS

- **Frequency Coverage**
WR28 to WR3 waveguide standards, covering frequencies from X-band through 325 GHz
- **Coupler Architectures**
Broadwall configurations (WR650–WR28), crossguide designs (WR430–WR10), and single/dual directional loop couplers (WR650–WR90)
- **Coupling Characteristics**
Directional performance with controlled VSWR and isolation for precision measurement applications
- **High-Power Variants**
Custom implementations for elevated RF power levels in HPA and transmit chain integration
- **Customization**
Tailored solutions for specialized coupling ratios, impedance matching, and form factors

APPLICATIONS

5G/6G & Telecommunications: Power monitoring and signal extraction in mmWave component characterization and network analysis

SATCOM & Defense: Satellite terminals, phased-array antenna feed networks, and directional signal management in radar systems

Automotive Radar: Signal routing and diagnostics in high-frequency automotive radar architectures

Research & Development: Sub-terahertz material characterization, imaging systems, and wireless communication prototyping

Test & Measurement: Real-time monitoring of forward and reflected power in RF test environments and operational systems