Millimeter Wave Components up to 750 GHz

TECHNICAL SPECIFICATIONS

- **Waveguide to Coax Adapters**
  Up to 110 GHz for impedance matching and signal transition
- **Horn Antennas**
  Directional gain designs reaching 325 GHz
- **Waveguide Terminations**
  Load matching elements up to 225 GHz
- **Circulators and Isolators**
  Up to 170 GHz for signal direction control
- **Waveguide Filters**
  Frequency selective elements up to 400 GHz
- **Waveguide Transitions**
  Interface solutions up to 325 GHz
- **Detector Mounts**
  Signal detection assemblies up to 325 GHz
- **Waveguide Amplifiers**
  Active gain solutions up to 230 GHz with optimized noise figure
- **Waveguide Attenuators**
  Up to 325 GHz for signal control applications
- **Waveguide Bends**
  Routing components up to 500 GHz
- **Waveguide Couplers**
  Power coupling solutions up to 325 GHz
- **Waveguide Straights and Twists**
  Transmission line components up to 750 GHz
- **Waveguide Switches**
  RF switching assemblies up to 110 GHz
- **Transmit/Receive Modules**
  Integrated transceiver solutions up to 170 GHz

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APPLICATIONS

SATCOM & Satellite Communication: High-frequency waveguide components for ground stations and satellite payloads requiring stable performance and low loss

Defense & Radar: Millimeter wave assemblies for military radar systems, electronic warfare, and surveillance applications across extended frequency ranges

6G Research & Development: Sub-terahertz components for next-generation wireless communication testbeds and research platforms

Automotive Radar: Waveguide-based solutions for high-resolution sensing and imaging systems in millimeter wave bands

Test & Measurement: Precision components for laboratory instrumentation and RF characterization equipment operating at extreme frequencies