Waveguide S-Bends up to 500 GHz

TECHNICAL SPECIFICATIONS

- **Frequency range**
  DC to 500 GHz across multiple waveguide standards
- **Bend orientations**
  E-Plane and H-Plane variants
- **Customization**
  Non-standard geometries and configurations available
- **Performance**
  Optimized VSWR and minimal insertion loss
- **Waveguide sizes**
  WR430 down to WR2 (RF through sub-terahertz bands)
- **Construction**
  Flanged waveguide tubes and split-block designs
- **Materials**
  Premium alloys for low-loss performance and environmental durability

APPLICATIONS

5G and 6G infrastructure: Compact base station and antenna integration requiring flexible waveguide paths

SATCOM and radar: Bent routing in satellite payload signal chains and ground equipment assemblies

Aerospace and Defense: Electronic warfare platforms and radar systems with spatial constraints

Test and measurement: Laboratory setups requiring precision waveguide routing for high-frequency characterization

Terahertz research: Imaging and spectroscopy applications beyond 300 GHz