

Waveguide Transitions up to 325 GHz



TECHNICAL SPECIFICATIONS

- **Frequency Coverage**
WR510 through WR3 standard rectangular waveguide formats
- **Bandwidth**
Single and multi-octave operational ranges across the mmWave and sub-THz spectrum
- **Transition Types**
Rectangular-to-rectangular, rectangular-to-circular, and double-ridged waveguide (WRD) variants
- **VSWR Performance**
Typically <1.15 to <1.30 depending on frequency band and configuration
- **Connector Options**
SMA, 1.85mm, and direct waveguide flange interfaces
- **Construction Materials**
Oxygen-free copper and aluminum alloys with precision machining tolerances

APPLICATIONS

Defense & Military Systems:
Radar frontends, EW receivers,
and signal intelligence
equipment requiring ultra-wide
bandwidth transitions

Satellite Communications:
SATCOM upconverters,
downconverters, and payload
multiplexing architectures

5G/6G Research: Beamforming
arrays, phased array antenna
systems, and sub-6 GHz to
mmWave testbeds

Instrumentation: Network
analyzer calibration kits,
spectrum analyzer frontends,
and laboratory measurement
systems