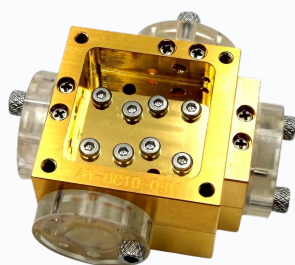


WR3 Dual Directional Coupler 220-330 GHz



TECHNICAL SPECIFICATIONS

- **Frequency Range**
220 – 330 GHz (full J-Band)
- **Insertion Loss**
Typical -2.5 dB, Maximum -3.5 dB
- **Return Loss**
-15 dB
- **Coupling Accuracy**
 ± 2.5 dB
- **Housing Material**
Gold-plated brass
- **Weight**
Approximately 100 g
- **Coupling Factor**
10 dB
- **Directivity**
Typical 20 dB
- **Coupling Variation**
 ± 2.0 dB across band
- **Waveguide Interface**
WR-3.4 with UG-387/U-M anti-cocking flanges
- **Operating Temperature**
-40°C to +85°C

APPLICATIONS

Network Analysis: Integration into vector network analyzers and scalar measurement systems for precision characterization of RF components at sub-THz frequencies

5G/6G Development: Signal monitoring and power measurement in next-generation wireless systems operating at millimeter-wave frequencies

Defense & SATCOM: Power monitoring in high-frequency communication links and radar systems requiring accurate directional measurement

Research & Development: Component characterization and electromagnetic testing in academic and industrial laboratories