

Waveguide Detectors up to 325 GHz



TECHNICAL SPECIFICATIONS

- **Frequency range**
WR22 to WR4 waveguide bands, covering up to 325 GHz
- **Detection performance**
Full waveguide bandwidth coverage with minimal insertion loss
- **Sensitivity**
High sensitivity for weak signal applications
- **Plating options**
Multiple plating configurations available to match system requirements and environmental conditions
- **VSWR**
Optimized for seamless integration into test and measurement setups
- **Design**
Compact waveguide mount suitable for space-constrained installations

APPLICATIONS

5G and 6G Research:
Characterization of mmWave
and sub-mmWave signal
propagation in next-generation
communication systems

SATCOM Systems: Uplink and
downlink power monitoring in
satellite communications
operating at extended
frequency bands

Defense and Aerospace: Radar,
electronic warfare, and sensing
applications requiring precise
frequency-dependent detection

Laboratory Testing: Component
and subsystem validation in RF
and millimeter-wave
development environments

Industrial Spectroscopy:
Material characterization and
measurement across the sub-
millimeter spectrum