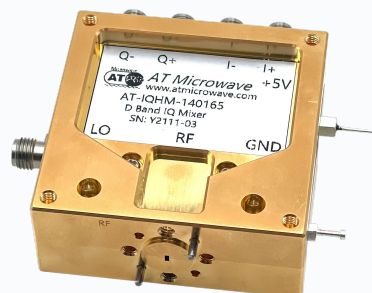


Waveguide Mixer & IQ Mixer up to 330 GHz



TECHNICAL SPECIFICATIONS

- **Frequency Range**
Up to 330 GHz across product portfolio
- **Waveguide Mixer**
Operational frequency range up to 220 GHz, WR22 to WR4.3 waveguide interfaces
- **Waveguide IQ Mixer**
Frequency coverage extending to 170 GHz, WR22 to WR6 waveguide compatibility
- **Performance**
Optimized VSWR and conversion loss characteristics across operating bands
- **Connectivity**
Standard connector interfaces for integration with RF/mmWave test and communication systems
- **Form Factor**
Compact waveguide design minimizes system footprint and assembly complexity

APPLICATIONS

SATCOM Systems:
Downconversion and
upconversion in satellite
communication transceivers
operating at millimeter-wave
frequencies

Defense & Radar: Signal
processing in phased-array
radar and electronic warfare
platforms requiring precise
frequency translation

5G/6G Research: Prototype
development and laboratory
characterization of next-
generation wireless technologies

Test & Measurement: Spectrum
analysis and signal
characterization up to sub-
terahertz bands

Imaging Systems: Frequency
conversion in passive and active
millimeter-wave imaging
applications