

# Waveguide Multiplier up to 400 GHz

## TECHNICAL SPECIFICATIONS

- **Frequency Range**  
WR22 through WR2.2 waveguide formats, covering Q-Band, U-Band, V-Band, E-Band, W-Band, F-Band, D-Band, and G-Band operations up to 400 GHz
- **Multiplication Factors**  
Active and passive configurations available in x2, x3, x4, x6, and x8 multiplication ratios
- **Bandwidth Options**  
Full-band and narrow-band implementations to match specific application requirements
- **Availability**  
Extensive stock inventory for standard configurations with rapid delivery capabilities
- **Customization**  
Purpose-built solutions engineered for specialized system requirements upon request

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## APPLICATIONS

SATCOM Systems: Frequency upconversion for satellite communication transmit chains operating in high-frequency bands

Defense and Radar: Military radar systems and electronic warfare platforms leverage these components for frequency agility and signal generation

5G and 6G Infrastructure: mmWave and sub-terahertz frequency sources support next-generation wireless network development and testing

Test and Measurement: Precision multipliers facilitate laboratory characterization of components and subsystems across extended frequency ranges

Imaging and Sensing: Advanced imaging systems and sensor arrays utilize high-frequency multipliers for coherent signal generation