

# Frequency Extender up to 500 GHz



## TECHNICAL SPECIFICATIONS

- **Frequency range**  
up to 500 GHz
- **Waveguide implementation**  
covers WR22 through WR04 band designations and beyond for sub-THz applications
- **Compatibility**  
laboratory instrumentation, network analyzers, and signal generators
- **Compliance**  
CE declaration documentation included
- **Coaxial variant**  
extends measurements up to 67 GHz with standard connector interfaces
- **VSWR**  
optimized performance across extended frequency ranges
- **Form factor**  
compact design suitable for bench-top and integrated system architectures

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## APPLICATIONS

**6G Research & Development:**  
Advanced frequency characterization for next-generation wireless technologies operating in sub-THz spectrum bands

**Semiconductor Testing:** Device parameter extraction and performance validation at millimeter-wave frequencies

**SATCOM Systems:** Signal integrity verification for high-frequency satellite communication equipment

**Defense & Aerospace:** Precision measurements for radar, electronic warfare, and related RF subsystems

**Materials Characterization:** Dielectric property measurement across extended frequency ranges