

# WR6 Amplifier up to 150 GHz



## TECHNICAL SPECIFICATIONS

- **Frequency Range**  
110-150 GHz (D-Band)
- **Waveguide Format**  
WR6 standard rectangular waveguide
- **Configuration 1**  
18 dB gain with +15 dBm saturated output power (P<sub>sat</sub>)
- **Configuration 2**  
35 dB gain with +13 dBm saturated output power, utilizing integrated LNA driver stage
- **Driver Architecture**  
Selectable low-noise amplifier integration for enhanced cascade performance
- **Output Interface**  
WR6 waveguide for seamless system integration

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## APPLICATIONS

Satellite Communications (SATCOM): Signal amplification for high-frequency uplink and downlink chains

Defense & Radar Systems: Millimeter-wave radar signal processing and target detection

6G Research: Sub-terahertz frequency exploration and prototype development

High-Speed Data Links: Point-to-point and point-to-multipoint wireless backhaul systems

Instrumentation: Laboratory measurement systems and spectroscopic applications