

# D-Band Waveguide Isolator 110-170 GHz



## TECHNICAL SPECIFICATIONS

- **Frequency Range**  
110-170 GHz (D-Band fullband coverage)
- **Waveguide Standard**  
WR6 with UG 387/U-M flange interface
- **Isolation Performance**  
Greater than 20 dB across operating bandwidth
- **Insertion Loss**  
0.8 dB typical; 1.3 dB maximum
- **Operating Principle**  
Non-reciprocal ferrite-based signal attenuation

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## APPLICATIONS

SATCOM Systems: Satellite communication terminals requiring stable downlink signal paths and interference rejection

Defense & Radar: Millimeter-wave radar and electronic warfare platforms operating in D-Band spectrum

6G Research: Next-generation wireless testbeds and laboratory measurement setups

Amplifier Protection: Safeguarding high-power amplifier stages from reflected energy and protecting low-noise amplifier input stages in sensitive receiver architectures