

## 81 to 86 GHz Isolator HMI12-387-83.5-5.0



HXI developed a series of products in the 81 to 86 GHz frequency range specifically designed for the matching and protection of E-band radio, radar and testing systems.

Among the products are HXI's waveguide isolators, HMI12-387-83.5-5.0 (WG-12). This product covers the complete band from 81.0 to 86 GHz without the high loss and long insertion length of a faraday-type isolator.

### FEATURES & BENEFITS

- Single part covering the complete band (81.0 to 86.0 GHz)
- Ferrite based junction isolator
- High Isolation
- Low Insertion Loss
- Easy interface to WG-12

### TECHNICAL SPECIFICATIONS

DESCRIPTION	WR-12 Isolator
CENTER FREQUENCY	83.5 GHz
BANDWIDTH	+/- 2.5 GHz
INSERTION LOSS	0.7 dB (typical), 1.0 dB (max)
ISOLATION	19 dB (typical), 16 dB (min)
VSWR	1.50:1
RF POWER	0.5 Watts
WAVEGUIDE INTERFACE	WR-12, UG-387/U
TEMPERATURE RANGE	0 to 60 degrees C

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