

Full H-Band Compact Faraday Isolator 170-260GHz, Low Insertion Loss

2025-11-11



Description:

AT-ISO-04P1 is a full H-band(170-260GHz) compact faraday isolator. This isolator is with low insertion loss -3.0dB, and high isolation to 20dB.

AT Microwave provides compact faraday isolators from 33-260GHz, covering Q to H bands.

More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 170-260GHz
- ✓ Insertion Loss: -3.0dB
- ✓ Isolation: 20dB
- ✓ Compact Size

Application

- ✓ mmWave Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Electronical Specifications:

Parameter	Min	Typical	Max
Frequency		170-260GHz	
Insertion Loss		-2.5dB	-4.0
Isolation	16dB	20dB	
Return Loss		-14dB	
Power Handling			100mW CW
Spec Temp		25C	
Operating Temp	-45C		85C



Mechanical Information

Item	Description
Input Port	WR-04 Waveguide with UG-387/U-M anti-cocking Flange
Output Port	WR-04 Waveguide with UG-387/U-M anti-cocking Flange
Case Material	Copper
Finish	Gold Plated
Weight	65g
Size:	SEE OUTLINE

Absolute Maximum Ratings Table

Parameter	Value
RF Input Power	+20dBm
Operating Temperature	-40 to +85C
Storage Temperature	-55 to +105C

Outline (unit mm)

