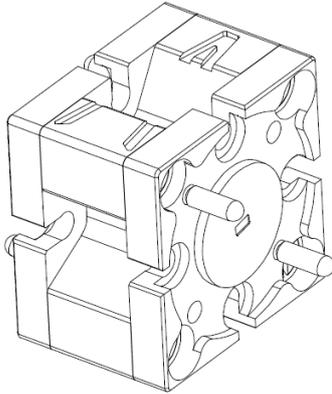


Full D Band Compact Faraday Isolator 110-170GHz, WR-06

2026-1-5



Description:

AT-ISO-06C1 is a full D band(110-170GHz) compact faraday isolator. This isolator is with low insertion loss -3.0dB, and high isolation to 23dB.

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

More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 110-170GHz
- ✓ Insertion Loss: -2.0dB
- ✓ Isolation: 23dB
- ✓ Compact Size

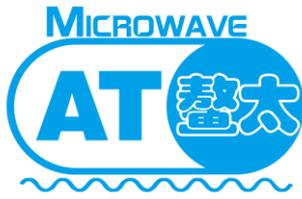
Application

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

Electronical Specifications:

Parameter	Min	Typical	Max
Frequency		110-170GHz	
Insertion Loss		-2.0dB	-3.5
Isolation	16dB	23dB	
Return Loss		-14dB	
Power Handling			0.5W CW
Spec Temp		25C	
Operating Temp	-45C		85C





AT-ISO-06C1

Full D Band Isolator

Mechanical Information

Item	Description
Input Port	WR-06 Waveguide with UG-387/U-M anti-cocking Flange
Output Port	WR-06 Waveguide with UG-387/U-M anti-cocking Flange
Case Material	Copper
Finish	Gold Plated
Weight	65g
Size:	SEE OUTLINE

Absolute Maximum Ratings Table

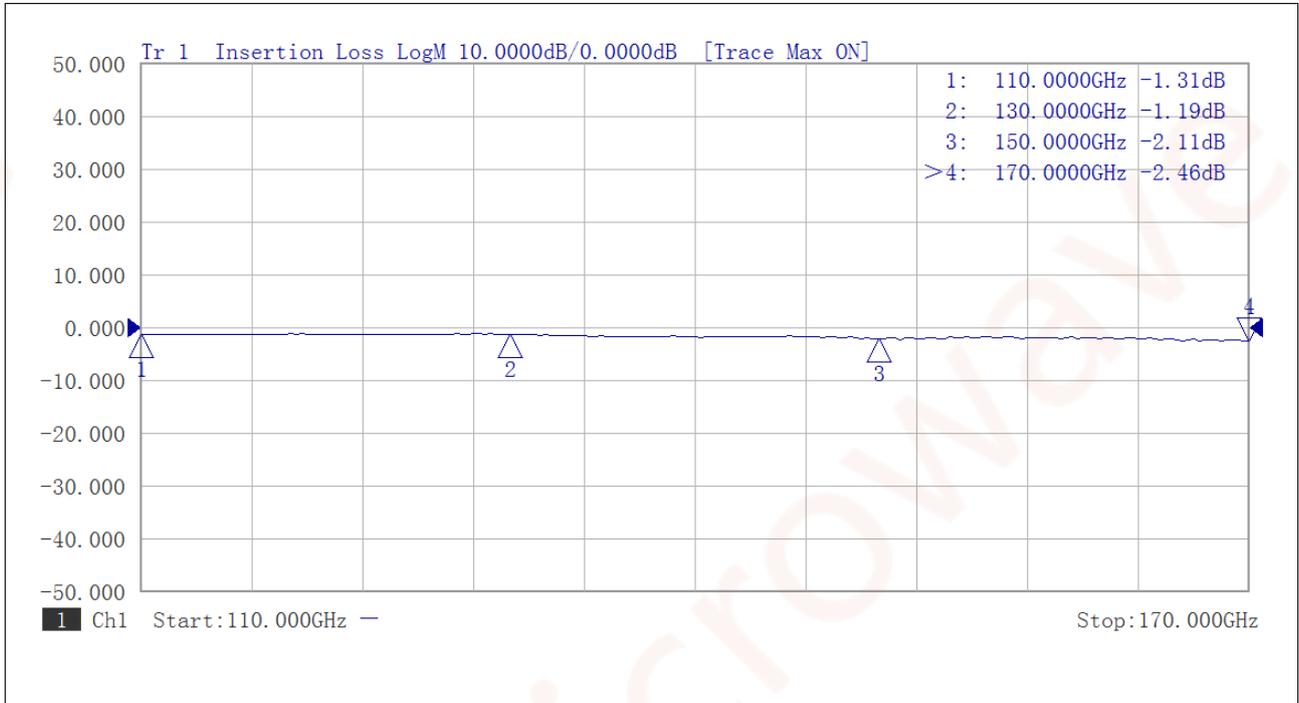
Parameter	Value
RF Input Power	+27dBm
Operating Temperature	-40 to +85C
Storage Temperature	-55 to +105C

Note:

1. The isolator is magnetic sensitive device, keep it 2inch away from the strong magnetic fields.
2. The input and output waveguides have some slanted direction, but it doesn't effect the performance, and it can be connected to the standard waveguide directly.



TEST DATA(25C)



Insertion Loss vs Frequency



Isolation vs Frequency



Dimension(mm)

