SNW-1041141018-10-I1-2

Advanced

W Band Waveguide Junction Isolator, 101 to 109 GHz

Description:

Model SNW-1041141018-10-I1-2 is an W band waveguide junction isolator that covers the frequency range of 101 to 109 GHz. Compared with a Faraday isolator, the waveguide junction isolator offers an insertion loss of 1.0 dB typical and a much shorter insertion length for system integration. As a tradeoff, the waveguide junction isolator only offers a nominal isolation of 18 dB. The input and output ports are WR-10 waveguides with UG-387/U-M anti-cocking flange.

Features:

- Low Insertion Loss
- Moderate Isolation
- Compact Configuration

Applications:

- 5G Systems
- Last Mile Communication System
- Port Isolation
- Module Integration

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	101 GHz		109 GHz
Insertion Loss		1.0 dB	
Isolation		18 dB	
Return Loss		15 dB	
Forward Power Handling			3 W (CW)
Reverse Power Handling			3 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
RF Ports	WR-10 Waveguide with UG-387/U-M Anti-Cocking Flange
Body Material	Aluminum
Body Finish	Gold Plated
Cover Finish	Black Anodized
Weight	0.7 Oz
Insertion Length	0.75”
Size	0.75” (L) X 0.85” (W) 1.00” (H)
Outline	NW-IW-A

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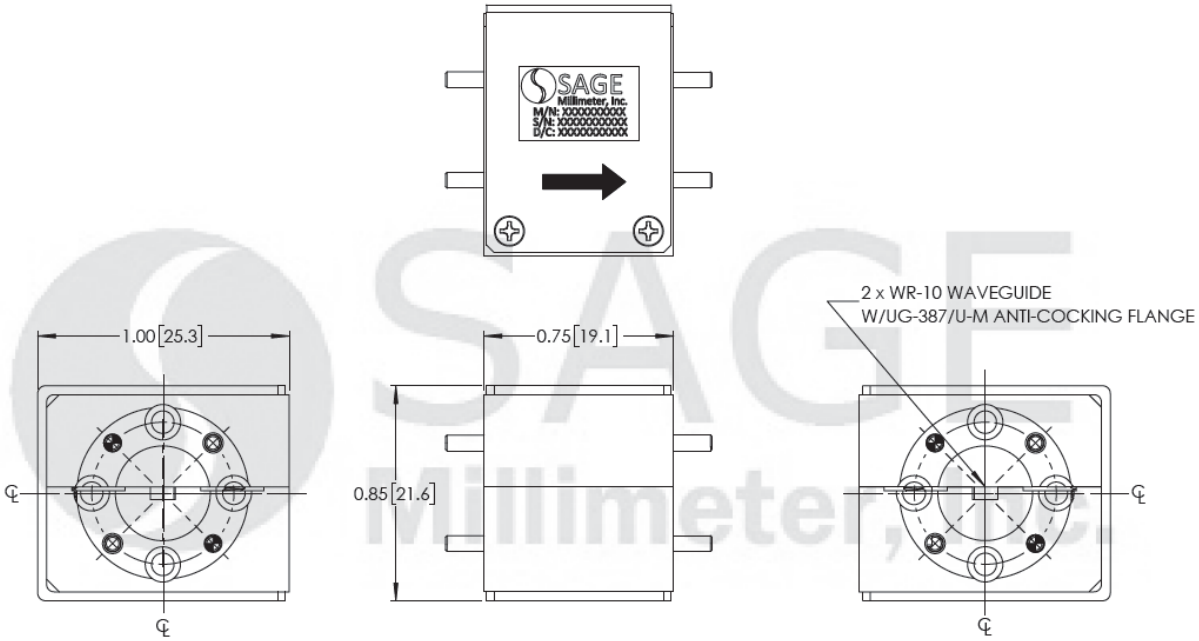
Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Note:

- Eravant reserves the right to change the information presented without notice.

Caution:

- Exceeding absolute maximum ratings will damage the device.
- This device is magnetic sensitive. Keep the device at least 6” away from magnetic fields.
- Any foreign objects in the waveguide will cause performance degradation and possible device damage.

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