



U Band Waveguide Junction Isolator, 39 to 44 GHz

Description:

Model SNW-3934430518-19-11 is a Q band waveguide junction isolator that covers the frequency range of 39.0 to 44.0 GHz. Compared with a Faraday isolator, the waveguide junction isolator offers a lower insertion loss of 0.5 dB nominal and a much shorter insertion length for system integration. As a tradeoff, the waveguide junction isolator only offers an isolation of 18 dB typical. The input and output ports are WR-19 waveguides with UG-383/U-M anti-cocking flanges. Various configurations and frequency ranges are offered under different model numbers.



Features:

- Low Insertion Loss
- Moderate Isolation
- Compact Configuration

Applications:

- New 5 G Systems
- Port Isolation
- Module Integration

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	39.0 GHz		44.0 GHz
Insertion Loss		0.5 dB	
Isolation		18 dB	
Return Loss		18 dB	
Forward Power Handling			5 W (CW)
Reverse Power Handling			1 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

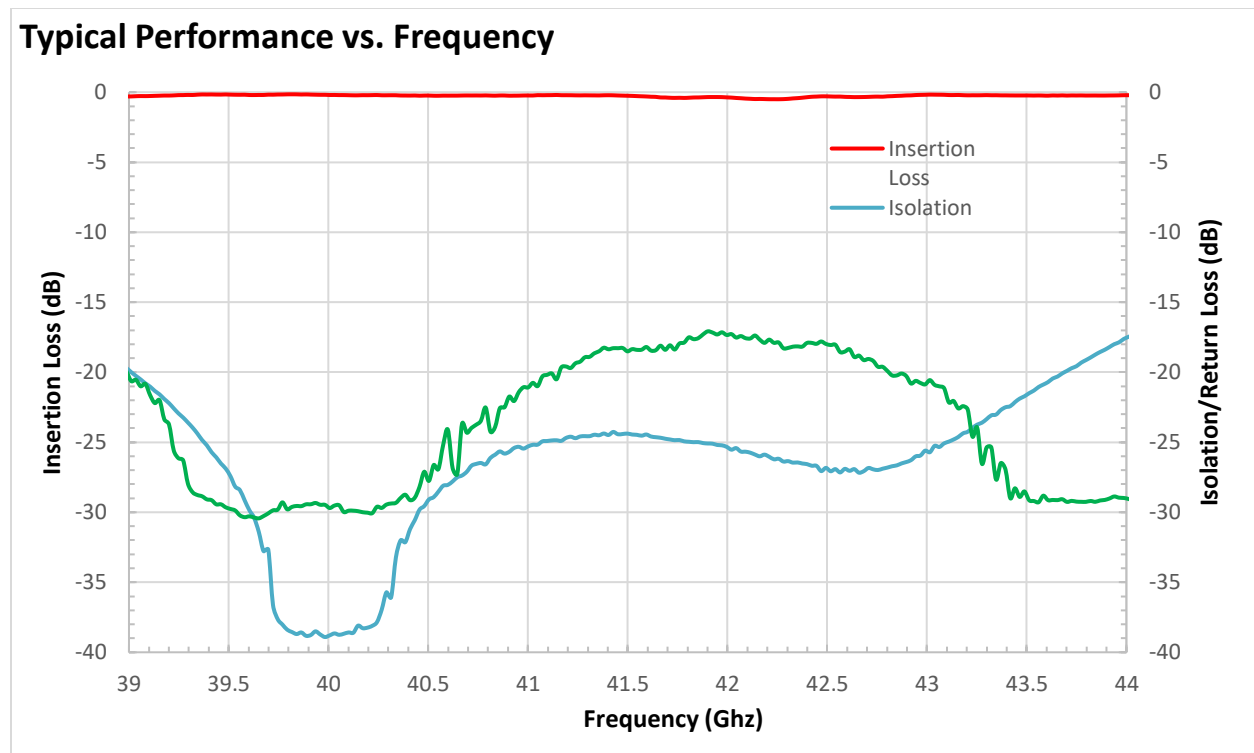
Item	Specification
RF Ports	WR-19 Waveguide with UG-383/U-M Anti-Cocking Flange
Material	Aluminum
Body Finish	Gold Plated
Cover Finish	Black Anodized
Weight	0.8 Oz
Insertion Length	1.00"
Outline	NW-IU-A



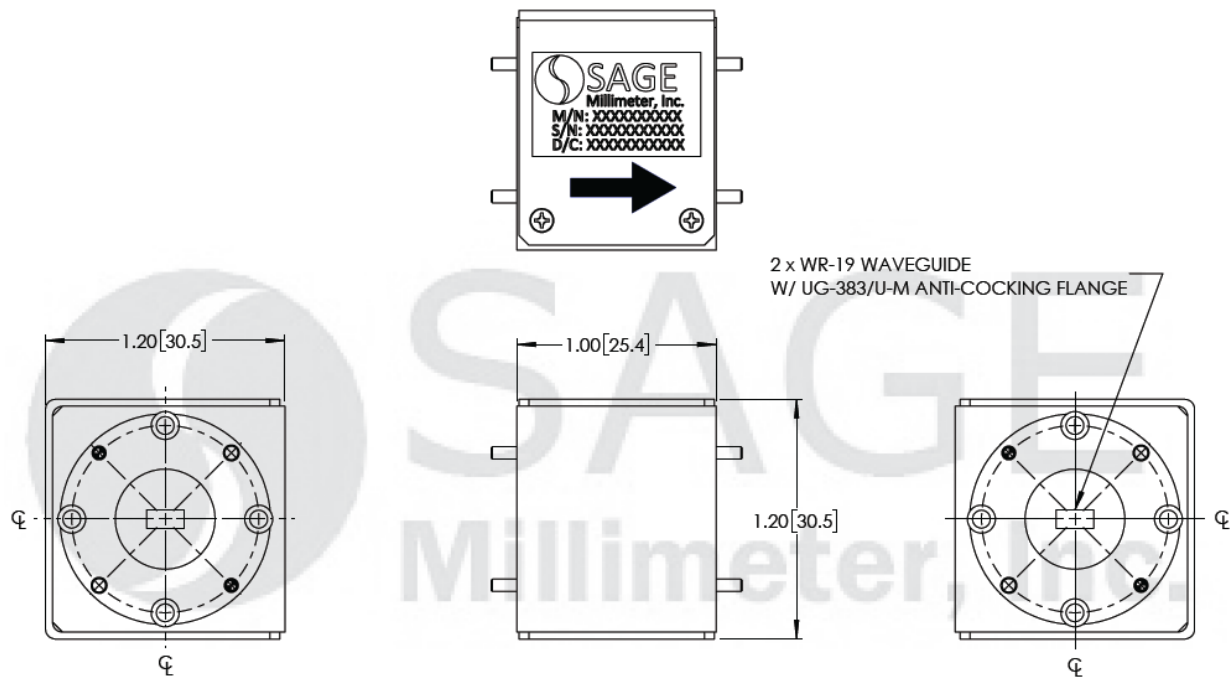


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Typical Performance vs. Frequency



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



Note:



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- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- All testing was performed under +25 °C case temperature.
- SAGE Millimeter, Inc. 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 degrade the performance and/or damage the device.

