



Ka-Band Waveguide Junction Isolator, 29 to 31 GHz

Description:

Model SNW-2933130320-28-I1 is a Ka band waveguide junction isolator that covers the frequency range of 29 to 31 GHz. Compared with a Faraday isolator, the waveguide junction isolator offers a lower insertion loss of 0.3 dB typical and a much shorter insertion length for system integration. As a tradeoff, the waveguide junction isolator only offers a typical isolation of 20 dB. The input and output ports are WR-28 waveguides with UG-599/U flanges.



Features:

- Low Insertion Loss
- Moderate Isolation
- Compact Configuration

Applications:

- Port Isolation
- Module Integration

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	29 GHz		31 GHz
Insertion Loss		0.3 dB	0.4 dB
Isolation	18 dB	20 dB	
Return Loss		15 dB	
Forward Power Handling		2 W (CW)	
Reverse Power Handling		0.5 W	
Specification Temperature		+25 °C	
Operating Temperature	-45 °C		+85 °C

Mechanical Specifications:

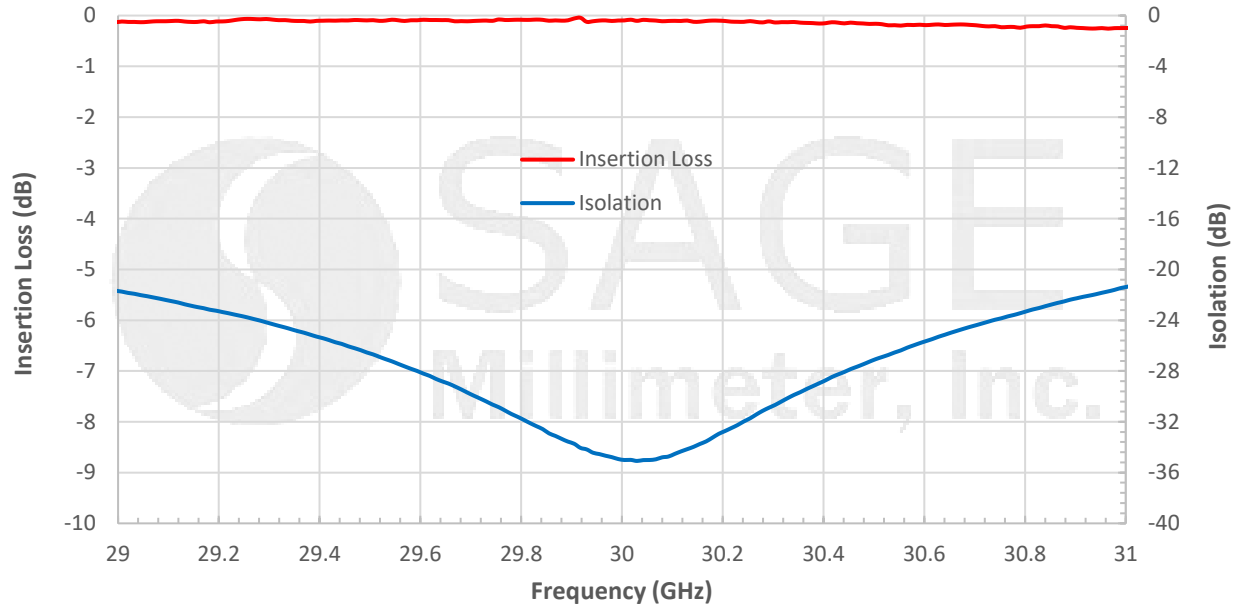
Item	Specification
RF Input and Output	WR-28 Waveguide with UG-599/U Flange
Insertion Length	0.4"
Case Material	Aluminum
Finish	Chem Film
Weight	0.8 Oz
Outline	NW-IA2



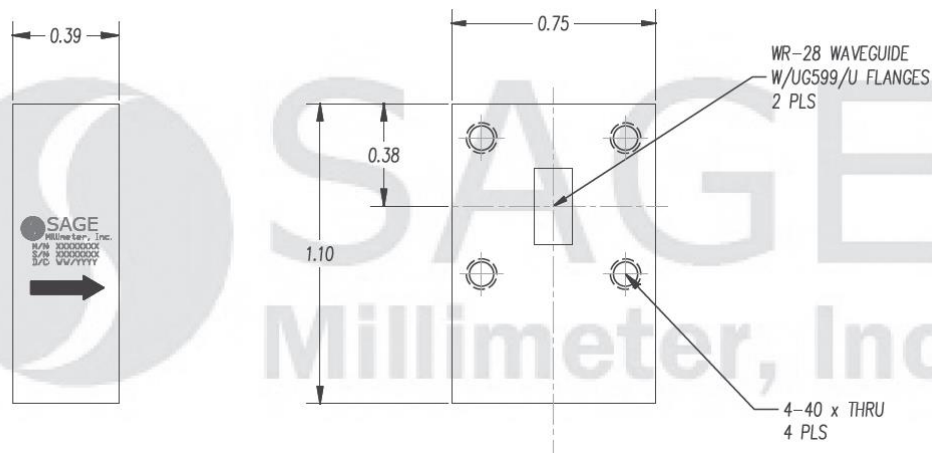


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Typical Performance vs. Frequency



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



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit, slightly.
- 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.



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