W Band Waveguide Junction Isolator, 104 to 111 GHz

Description:

Model SNW-1041141018-10-I1 is an W band waveguide junction isolator that covers the frequency range of 104 to 111 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	104 GHz		111 GHz
Insertion Loss		1.0 dB	1.5 dB
Isolation	14 dB	18 dB	
Return Loss	13 dB	16 dB	
Forward Power Handling			3 W (CW)
Reverse Power Handling			3 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

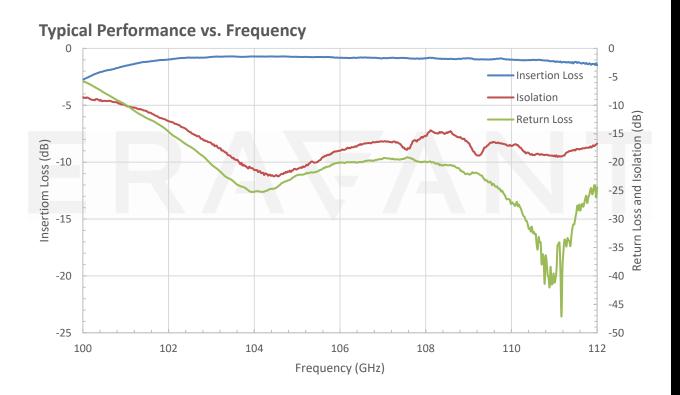
Mechanical Specifications:

ltem	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) X 1.00" (H)
Outline	NW-IW-A

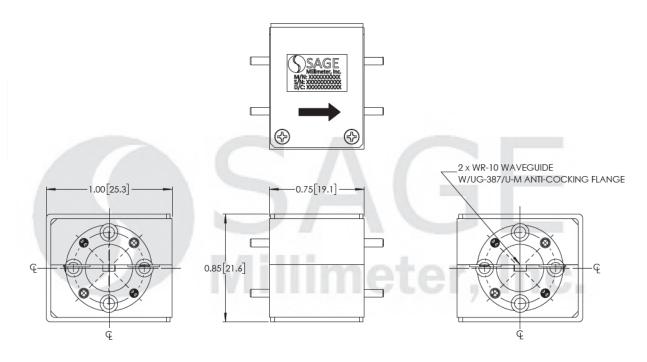


www.eravant.com | 501 Amapola Ave, Torrance, CA 90501 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: support@eravant.com

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





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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.
- 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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