SNW-2732930320-28-IE

Advanced

Ka-Band Waveguide Junction Isolator, 26.5 to 29 GHz

Description:

Model SNW-2732930320-28-IE is a Ka band waveguide junction isolator that covers the frequency range of 26.5 to 29 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-M compatible flanges.

Features:

- Low Insertion Loss
- Moderate Isolation
- Compact Configuration

Applications:

- Port Isolation
- Module Integration

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	26.5 GHz		29 GHz
Insertion Loss		0.3 dB	0.4 dB
Isolation	18 dB	20 dB	
Return Loss		15 dB	
Forward Power Handling			8 W (CW)
Reverse Power Handling			2 W (CW)
Specification Temperature		+25 ˚C	
Operating Temperature	-45 ˚C		+85 ˚C

Mechanical Specifications:

Item	Specification
Input Port	WR-28 Waveguide with UG-599/U-M Compatible Flange
Output Port	WR-28 Waveguide with UG-599/U-M Compatible Flange
Case Material	Aluminum
Finish	Chem Film
Weight	0.8 Oz
Insertion Length	0.39”
Outline	NW-IA2

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

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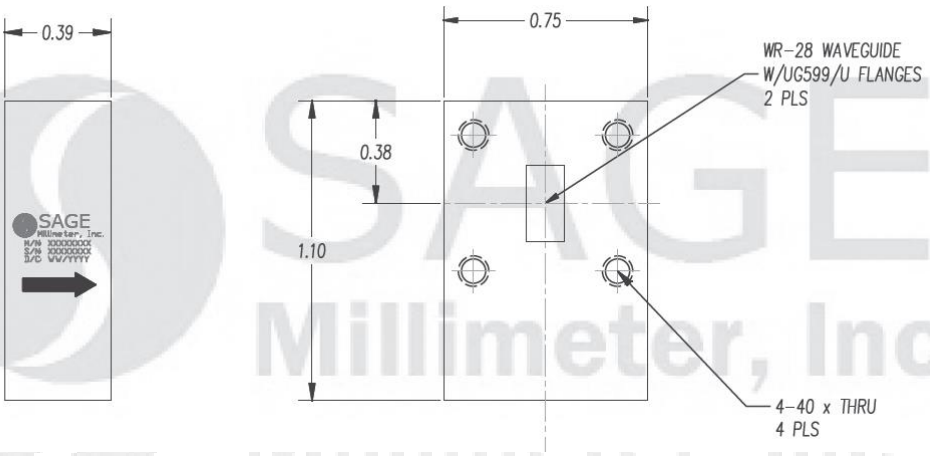
Mechanical Outline: (Unless otherwise specified, all dimensions are in inches)



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 degrade the performance and/or damage the device.

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