

SWP-59361304-15-E2

Rev. 1.0

Waveguide Power Divider, V Band, 4 Way, High Isolation, 59 to 61 GHz

Description:

Model SWP-59361304-15-E2 is a V band, 4-way in-line waveguide power divider that operates across the frequency range of 59 to 61 GHz. The power divider offers a typical insertion loss of 1.0 dB at each output port and a typical isolation of 25 dB. The ports are well balanced and in phase for either power dividing or power combining applications across the full band. This model offers an end launch design with WR-15 waveguides and UG-385/U flanges. Other configurations are available under different model numbers.



Features:

- Low Insertion Loss
- High Isolation
- Inline Configuration

Applications:

- Power Combining and Dividing
- Test Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	59 GHz		61 GHz
Power Unbalance		±0.40 dB	
Insertion Loss		1.0 dB	
Isolation		25 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Input	WR-15 Waveguide with UG-385/U Flange
Output	WR-15 Waveguide with UG-385/U Flange
Size	1.30" (L) x 4.50" (W) x 0.75" (H)
Port Separation	1.15"
Material	Aluminum
Finish	Gold Plated
Weight	3.4 Oz
Outline	WP-V4I-2

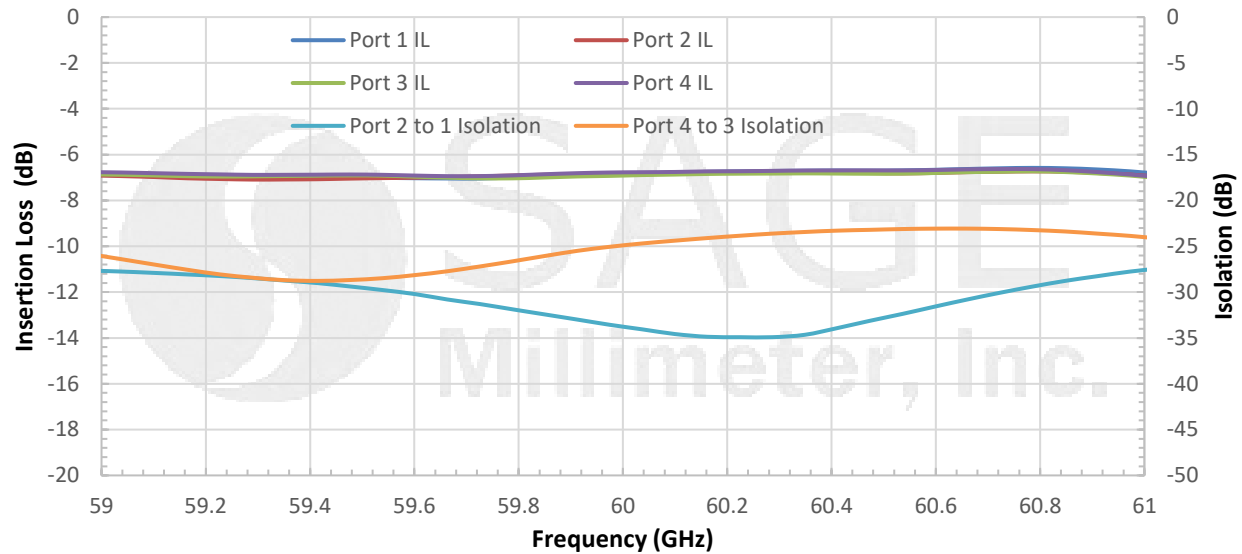


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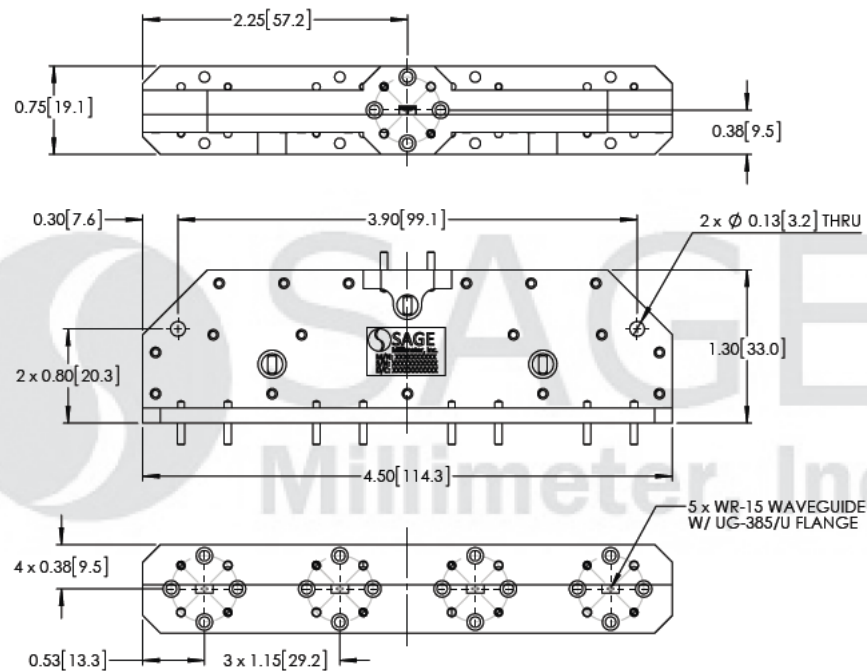
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Typical Insertion Loss and Isolation vs. Frequency



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



Note:

- All data are presented using a limited sample lot. Actual data may vary unit to unit.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Any foreign objects in the waveguide will degrade performance and/or damage the device.



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SAGE Millimeter, Inc.