SWP-27335304-28-E1

Rev. 1.1

Ka-Band Waveguide Power Divider, 4 Way, 26.5 to 35 GHz

Description:

Model SWP-27335304-28-E1 is a Ka band, 4-way in-line waveguide power divider that operates across the frequency range of 26.5 to 35 GHz. The power divider offers a typical insertion loss of 0.5 dB at each output port and a typical isolation of 20 dB. The ports are well balanced and in phase for either power dividing or power combining applications across the specified frequency range. Standard configurations are available under different model numbers.

Features:

- Low Insertion Loss
- High Isolation
- In-line Configuration

Applications:

- 5G Systems
- Test Instrumentation
- Sub-assemblies
- Power Combining and Dividing

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	26.5 GHz		35 GHz
Power Unbalance		±0.4 dB	
Insertion Loss		0.5 dB	
Isolation		20 dB	
Power Handling			100 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
Input Port	WR-28 Waveguide with UG-599/U Compatible Flange
Output Ports	WR-28 Waveguide with UG-599/U Compatible Flange
Port Separation	1”
Material	Aluminum
Finish	Gold Plated
Weight	3.52 Oz
Size	1.75” (L) x 4.00” (W) x 0.75” (H)
Outline	WP-A4I-2

www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505
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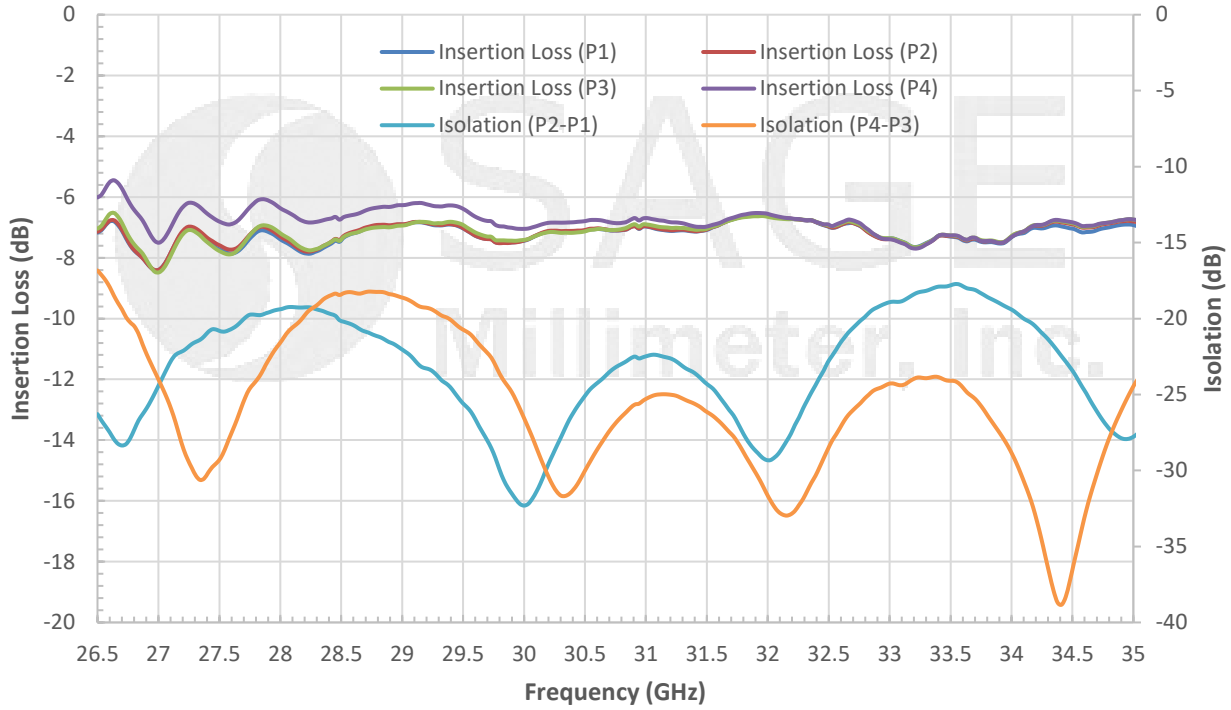
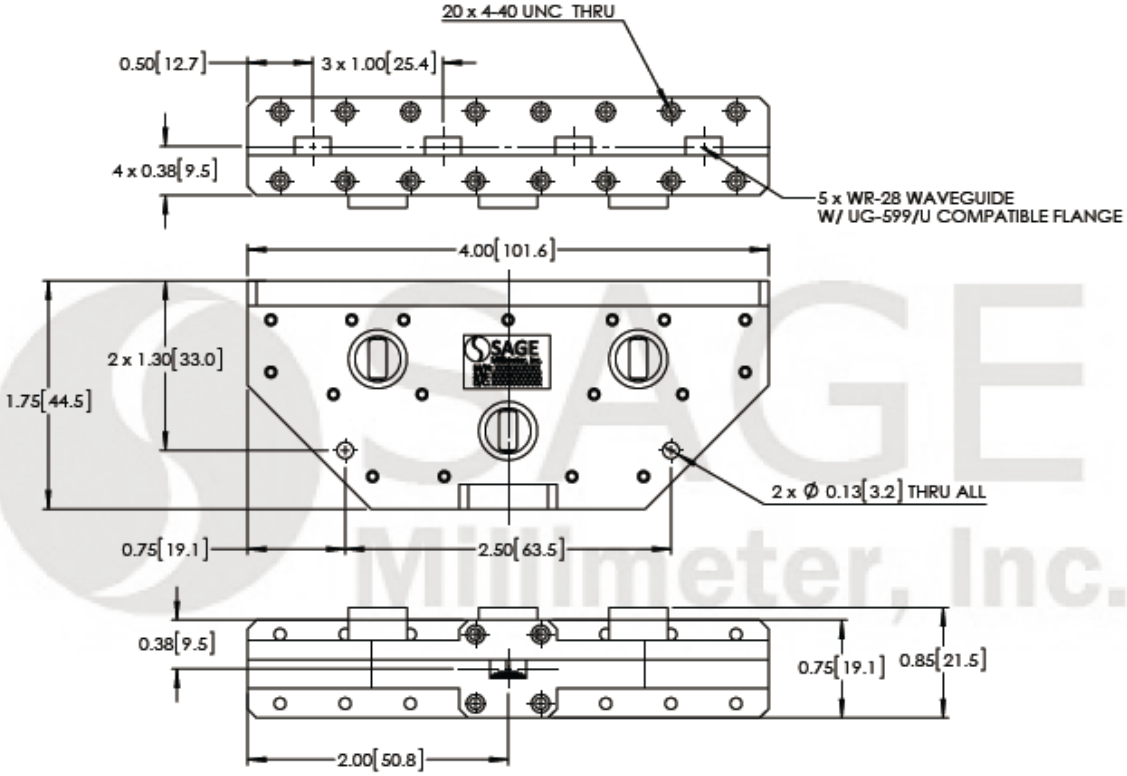
Typical Insertion Loss & Isolation vs. Frequency

Isolation was tested between adjacent ports (i.e. 1-2, 3-4)



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.
- 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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