

Ka-Band Waveguide Power Divider, 4 Way, 28.5 to 30.5 GHz

Description:

Model SWP-29331304-28-E1 is a Ka band, 4-way in-line waveguide power divider that operates across the frequency range of 28.5 to 30.5 GHz. The power divider offers a typical insertion loss of 0.5 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 specified frequency range. Other configurations are available under different model numbers.



Features:

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

Applications:

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

Electrical Specifications:

| Parameter | Minimum | Typical | Maximum |
|---------------------------|----------|----------|----------|
| Frequency | 28.5 GHz | | 30.5 GHz |
| Power Unbalance | | ±0.40 dB | |
| Insertion Loss | | 0.5 dB | |
| Isolation | | 25 dB | |
| Specification Temperature | | +25 °C | |
| Operating Temperature | -40 °C | | +85 °C |

Mechanical Specifications:

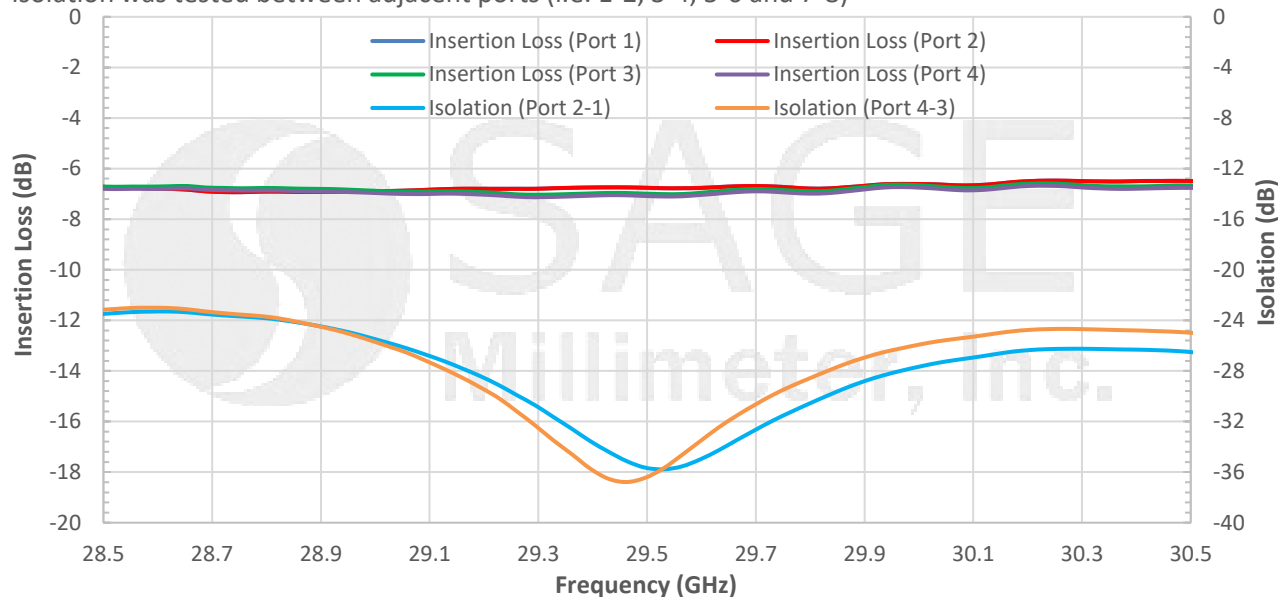
| Item | Specification |
|-----------------|---|
| Input Port | WR-28 Waveguide with UG-599/U Compatible Flange |
| Output Port | WR-28 Waveguide with UG-599/U Compatible Flange |
| Port Separation | 1.00" |
| Material | Aluminum |
| Finish | Gold Plated |
| Weight | 3.52 Oz |
| Size | 1.75" (L) x 4.00" (W) x 0.75" (H) |
| Outline | WP-A4I-2 |



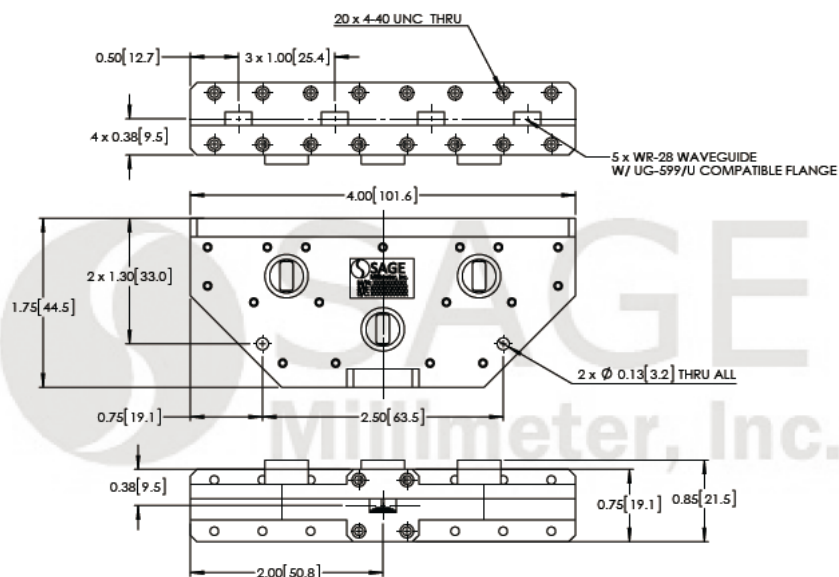
Ka-Band Waveguide Power Divider, 4 Way, 28.5 to 30.5 GHz

Typical Insertion Loss & Isolation vs. Frequency

Isolation was tested between adjacent ports (i.e. 1-2, 3-4, 5-6 and 7-8)



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



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.



www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505
Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com