

SWP-55367304-15-E1

Rev. 1.0

Waveguide Power Divider, V Band, 4 Way, 55 to 67 GHz

Description:

Model SWP-55367304-15-E1 is a V band, 4-way in-line waveguide power divider that operates across the frequency range of 55 to 67 GHz. The power divider offers a typical insertion loss of 1.0 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 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 | 55 GHz | | 67 GHz |
| Power Unbalance | | | ±0.20 dB |
| Insertion Loss | | 1.0 dB | 1.2 dB |
| Isolation | | 20 dB | |
| Input/Output VSWR | | | 1.5:1 |
| Specification Temperature | | +25°C | |
| Operating Temperature | -40°C | | +85°C |

Mechanical Specifications:

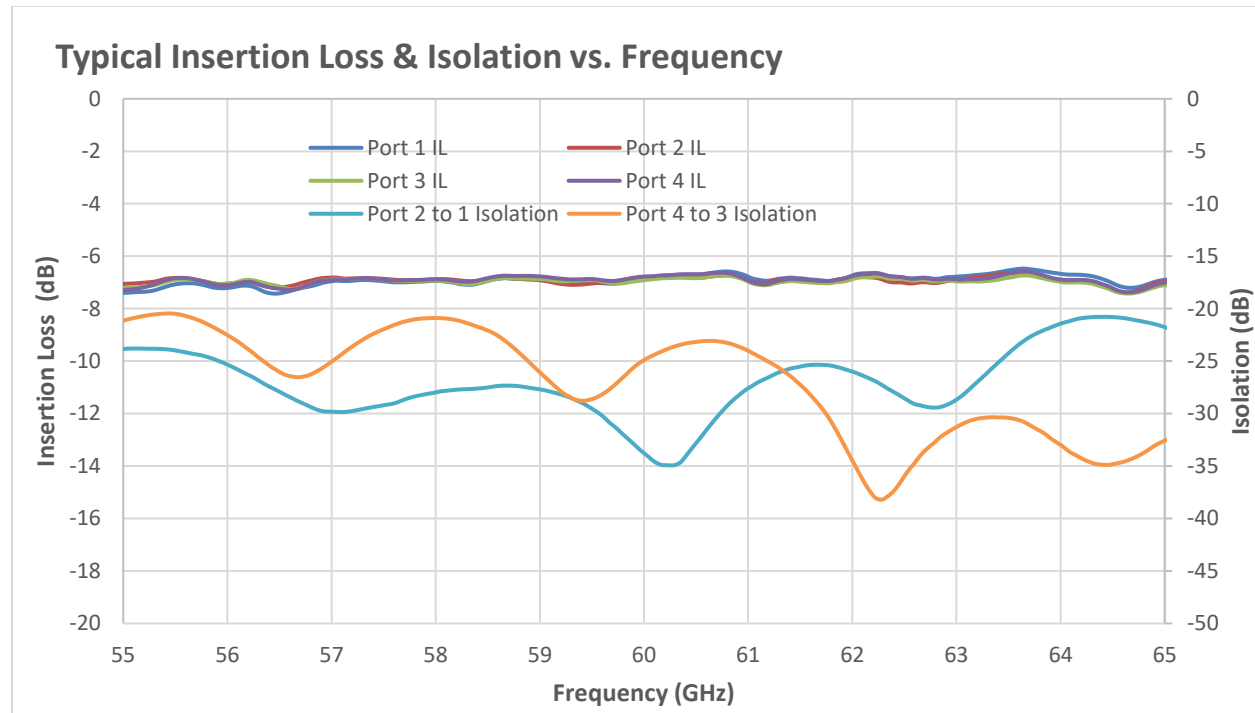
| Item | Specification |
|-----------------|--------------------------------------|
| Input | WR-15 Waveguide with UG-385/U Flange |
| Output | WR-15 Waveguide with UG-385/U Flange |
| Size | 1.30" (L) x 4.50" (W) x 0.75" (H) |
| Port Separation | 1.15" |
| Material | Aluminum |
| Finish | Gold Plated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



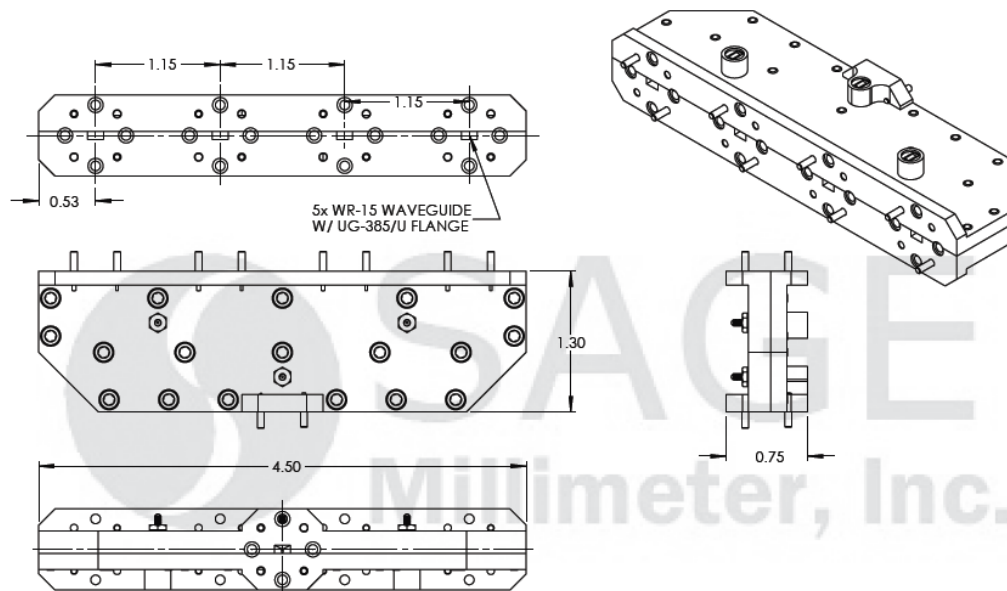
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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches)



Note:

- All data are presented using a limited sample lot, actual data may vary unit to unit.
- 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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