

2-Way Waveguide Power Divider

Description:

Model SWP-50375302-15-S1 is a V band, 2-way power divider with a typical insertion loss of 0.5 dB across the frequency range of 50 to 75 GHz. The divider offers 20 dB isolation and well-balanced ports, which can be used for in-phase power dividing or combining. This power divider comes as a right-angle configuration with WR-15 waveguides and UG-385/U anti-cocking flanges at the input and all outputs.



Features:

- Low Insertion Loss
- High Isolation
- Compact Package

Applications:

- Test Labs
- Test Instrumentation
- Sub-assemblies

Electrical Specifications:

| Parameter | Minimum | Typical | Maximum |
|---------------------------|---------|---------|---------------|
| Frequency | 50 GHz | | 75 GHz |
| Power Unbalance | | | ± 0.20 dB |
| Insertion Loss | | 0.5 dB | 0.8 dB |
| Isolation | | 20 dB | |
| Input/Output VSWR | | | 1.5:1 |
| Specification Temperature | | +25°C | |
| Operating Temperature | -40°C | | +85°C |

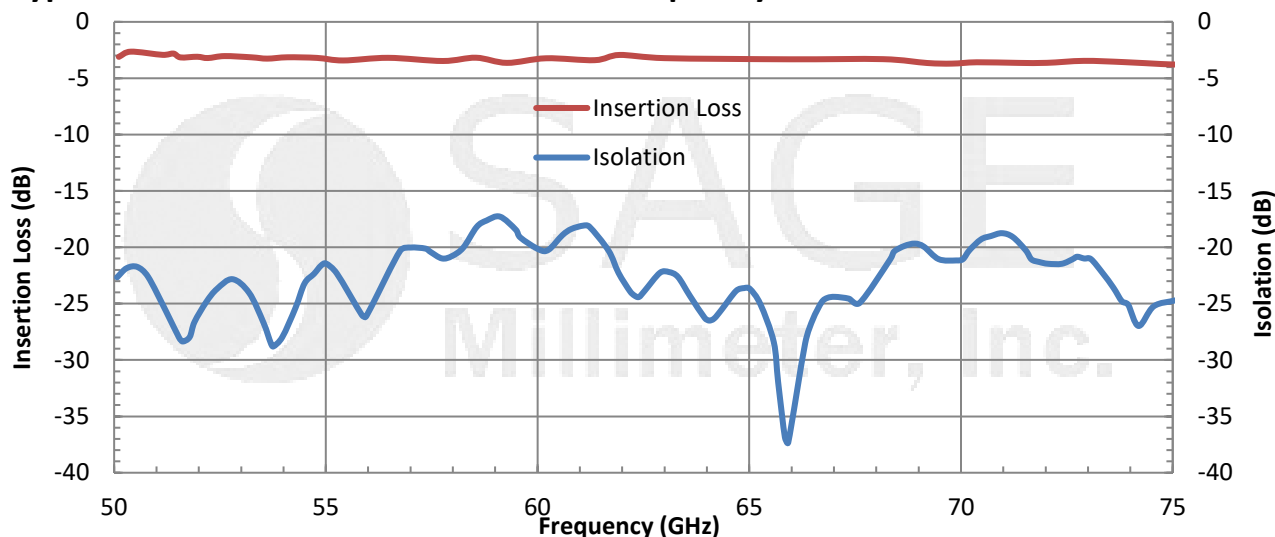
Mechanical Specifications:

| Item | Specification |
|----------|---|
| Input | WR-15 Waveguide with UG-385/U Anti-Cocking Flange |
| Output | WR-15 Waveguide with UG-385/U Anti-Cocking Flange |
| Size | 1.00" (L) X 1.00" (W) X 0.88" (H) |
| Material | Aluminum |
| Finish | Gold Plated |
| Weight | 1.3 Oz |
| Outline | WP-V2-A |

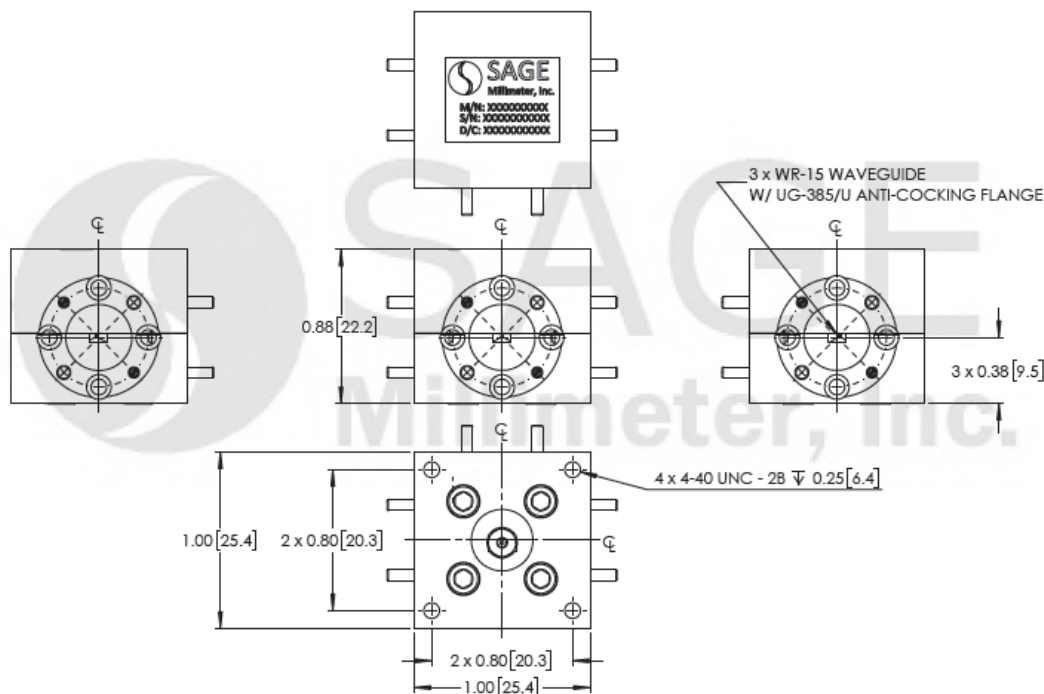


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Typical Insertion Loss and Isolation vs. Frequency



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



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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