

# SWP-27338302-28-S1

Rev. 1.0

## WR-28 Waveguide Power Divider, 2-Way, 26.5 to 38.0 GHz

### Description:

**Model SWP-27338302-28-S1** is a Ka band, 2-way power divider with a typical insertion loss of 0.5 dB across the frequency range of 26.5 to 38 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-28 waveguides and UG-599/U flanges at the input and all outputs. The inline configuration is offered under model number SWP-27338302-28-E1.



### Features:

- Low Insertion Loss
- High Isolation
- Compact Package

### Applications:

- Test Labs
- Test Instrumentation
- Sub-assemblies

### Electrical Specifications:

| Parameter                 | Minimum  | Typical | Maximum |
|---------------------------|----------|---------|---------|
| Frequency                 | 26.5 GHz |         | 38 GHz  |
| Amplitude Unbalance       |          | ±0.2 dB |         |
| Insertion Loss            |          | 0.4 dB  |         |
| Port Isolation            |          | 20 dB   |         |
| Port Return Loss          |          | 20 dB   |         |
| Specification Temperature |          | +25 °C  |         |
| Operating Temperature     | -40 °C   |         | +85 °C  |

### Mechanical Specifications:

| Item         | Specification                        |
|--------------|--------------------------------------|
| Input Port   | WR-28 Waveguide with UG-599/U Flange |
| Output Ports | WR-28 Waveguide with UG-599/U Flange |
| Material     | Aluminum                             |
| Finish       | Gold Plated                          |
| Weight       | 1.3 Oz                               |
| Size         | 1.00" (L) X 1.00" (W) X 0.88" (H)    |
| Outline      | WP-A2                                |

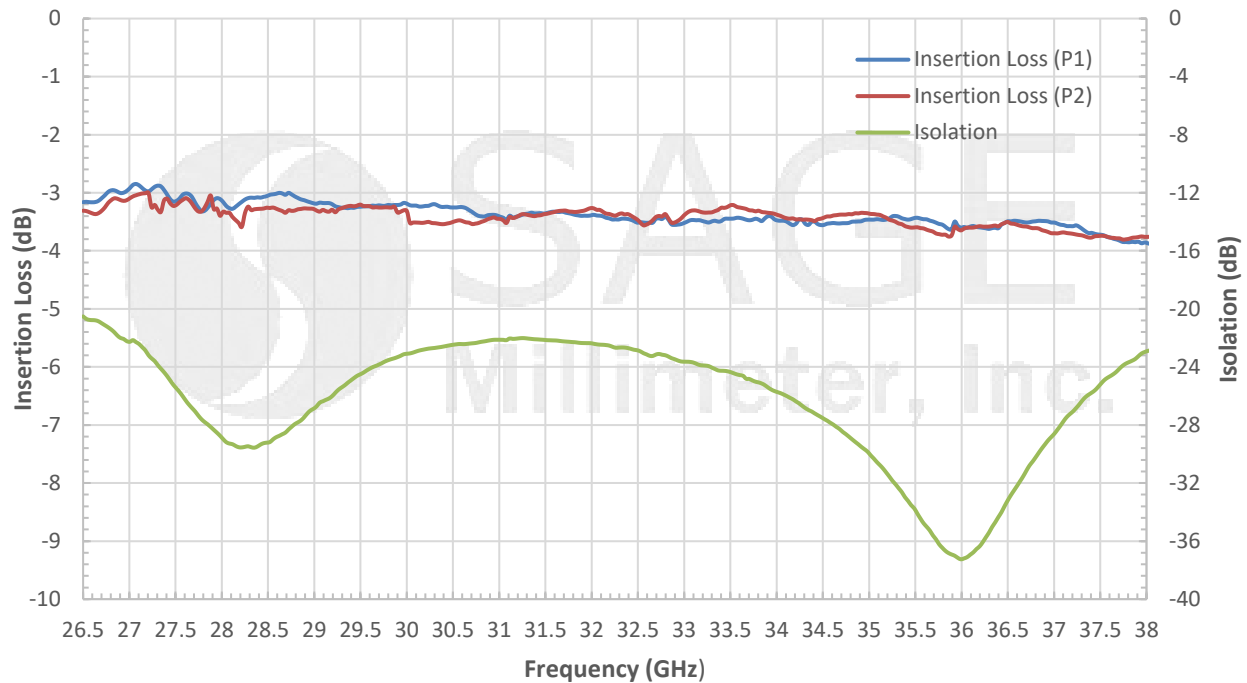


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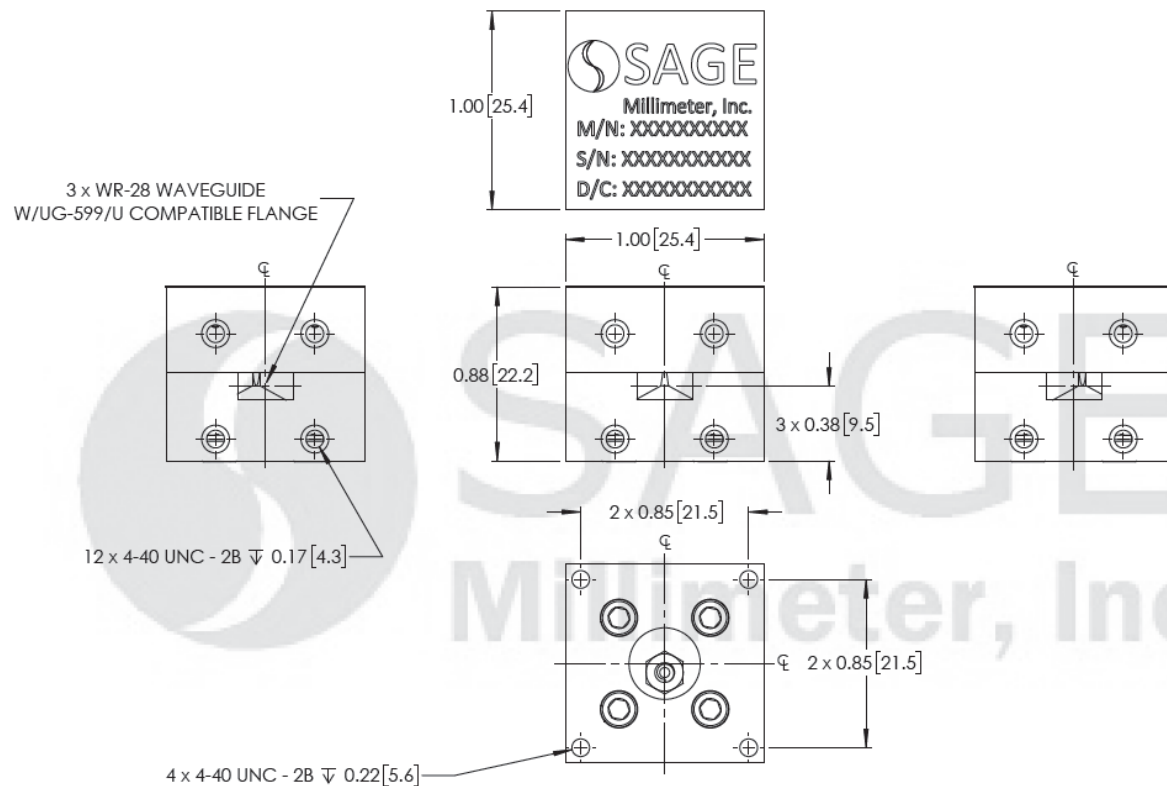
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## Typical Insertion Loss &amp; Isolation vs. Frequency



**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.

