

# SWP-27340302-28-S1

Rev. 1.2

## WR-28 Waveguide Power Divider, 2-Way, 26.5 to 40 GHz

### Description:

**Model SWP-27340302-28-S1** is a WR-28, 2-way power divider that operates from 26.5 to 40 GHz. The power divider offers a typical insertion loss of 0.3 dB and typical isolation of 20 dB. All ports are well-balanced and in-phase for power dividing or combining applications across the band. The power divider is configured as a right-angle package with WR-28 waveguides and UG-599/U compatible flanges at all ports. An inline, 2-way configuration is offered under model **SWP-27340302-28-E1-3**. Other power splitting options, such as 4-way, 8-way, and 16-way division, are available for both right-angle and inline configurations under different model numbers.



### Features:

- Full band performance from 26.5 to 40 GHz
- Low Insertion Loss
- High Isolation
- Compact Package

### Applications:

- 5G mmW Systems
- Test Labs
- Test Instrumentation
- Sub-assemblies

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	26.5 GHz		40 GHz
Insertion Loss		0.3 dB	
Power Unbalance		±0.3 dB	
Isolation		20 dB	
Return Loss		20 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

### Mechanical Specifications:

Item	Specification
RF Ports	WR-28 Waveguide with UG-599/U Compatible Flange
Material	Brass
Finish	Gold Plated
Weight	3.7 Oz
Outline	WP-A2-A

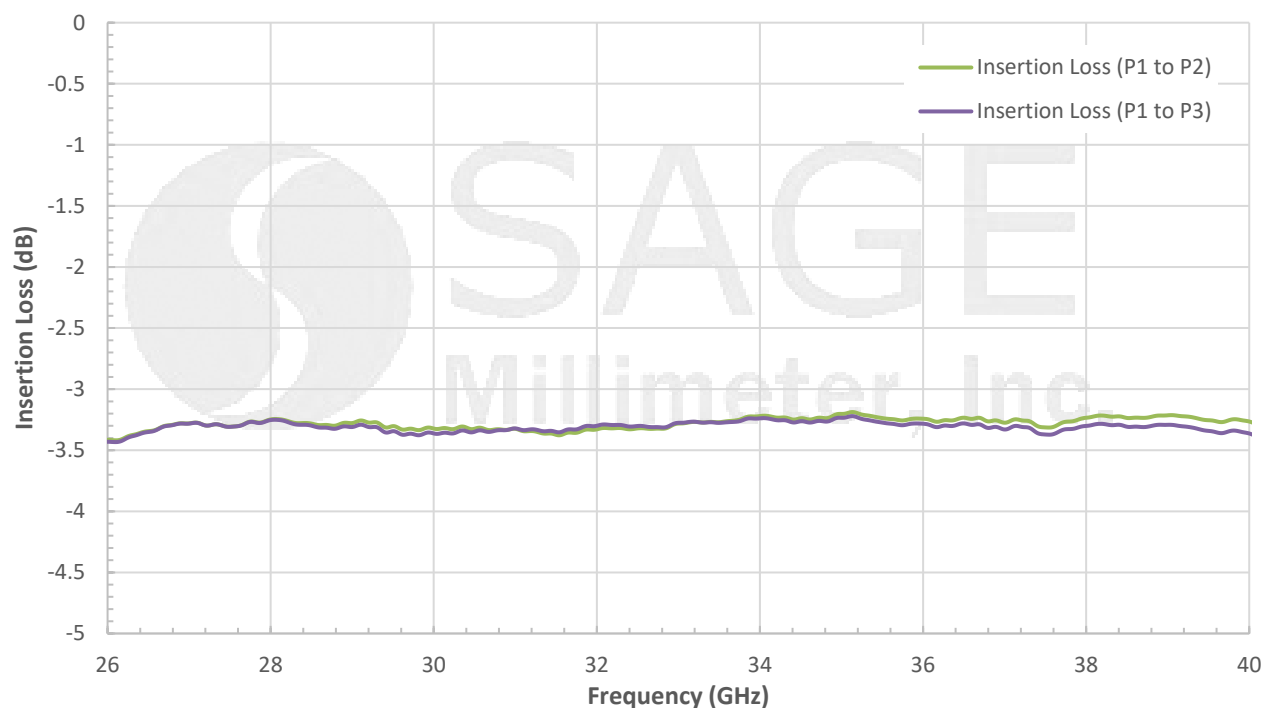


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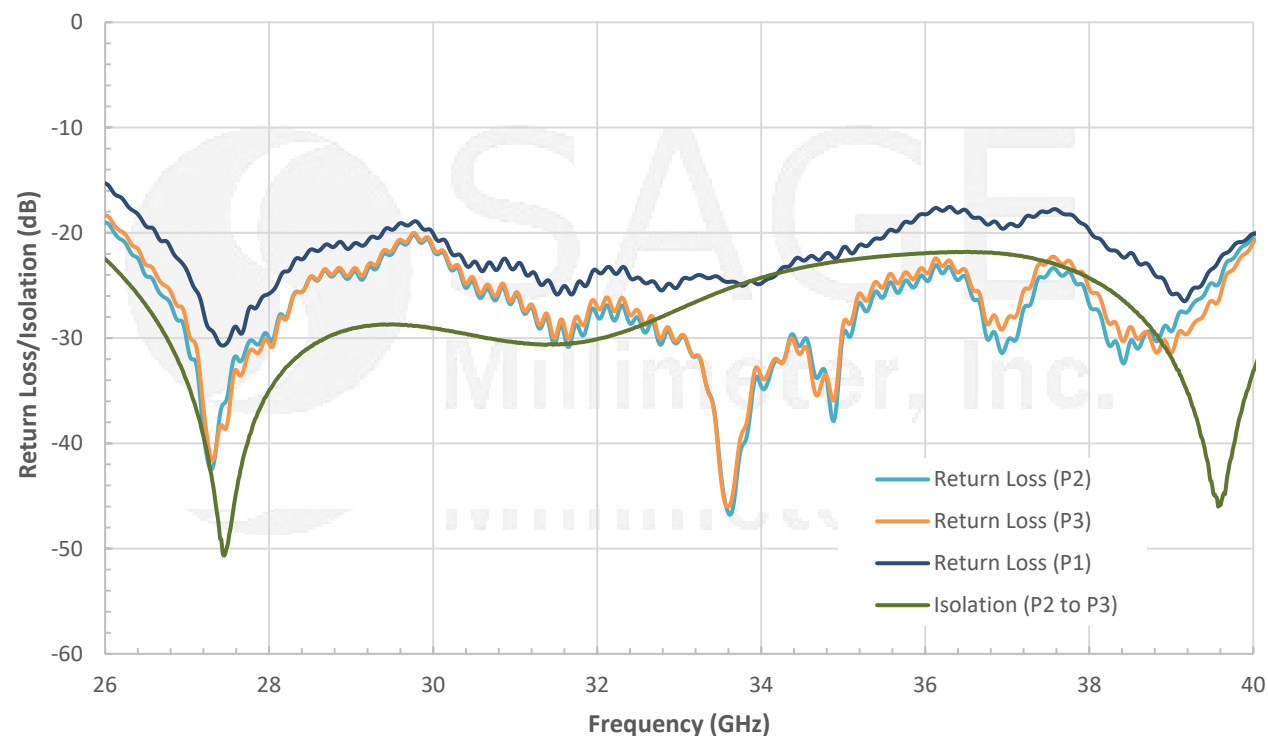
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### Typical Measured Insertion Loss Vs Frequency



### Typical Measured Isolation and Return Loss Vs Frequency

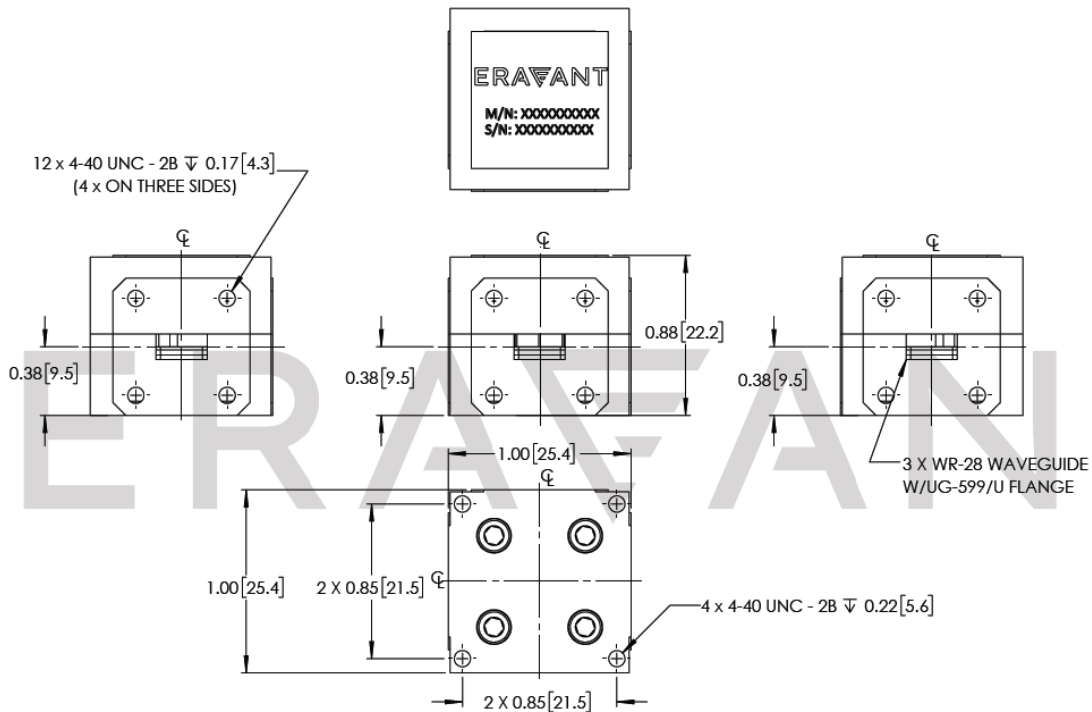


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**Mechanical Outline:** (Unless otherwise specified, all dimensions are in inches [millimeters])



**Note:**

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- All testing was performed under +25 °C case temperature.
- Eravant 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.

