



Broadband WR-28 Waveguide Power Divider, 2-Way, 24 to 44 GHz

Description:

Model SWP-24344302-28-S1 is a broadband WR-28, 2-way power divider that operates from 24 to 44 GHz. The power divider offers a typical insertion loss of 0.4 dB and typical isolation of 18 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-24344302-28-E1**. 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:

- Broadband Performance from 24 to 44 GHz
- Low Insertion Loss
- High Isolation
- Compact Package

Applications:

- 5G mmW Systems
- Test Instrumentation
- Sub-assemblies
- Power Combining and Dividing

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	24 GHz		44 GHz
Insertion Loss		0.4 dB	0.8 dB
Power Unbalance		±0.2 dB	±0.4 dB
Isolation, 24 to 26.5 GHz		12 dB	
Isolation, 26.5 to 44 GHz		18 dB	
Return Loss, 24 to 26.5 GHz	10 dB	12 dB	
Return Loss, 26.5 to 44 GHz	13 dB	18 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

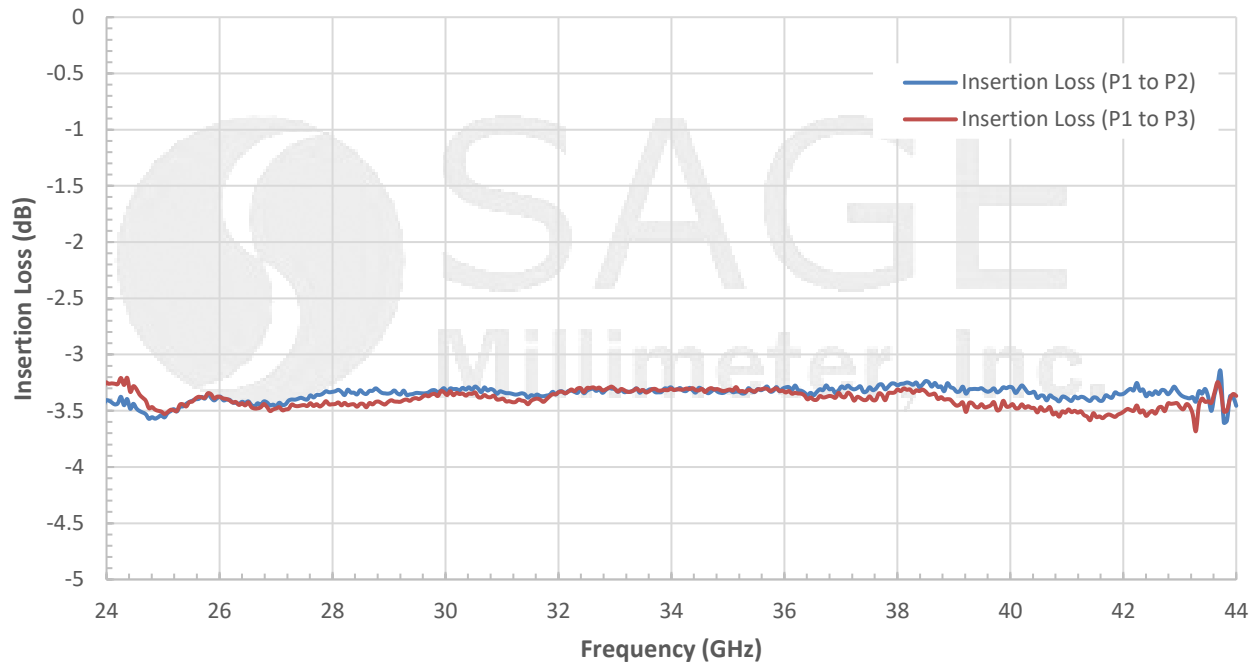
Item	Specification
RF Ports	WR-28 Waveguide with UG-599/U Compatible Flange
Material	Brass
Finish	Gold Plated
Weight	10.5 oz.
Outline	WP-A2-A-2



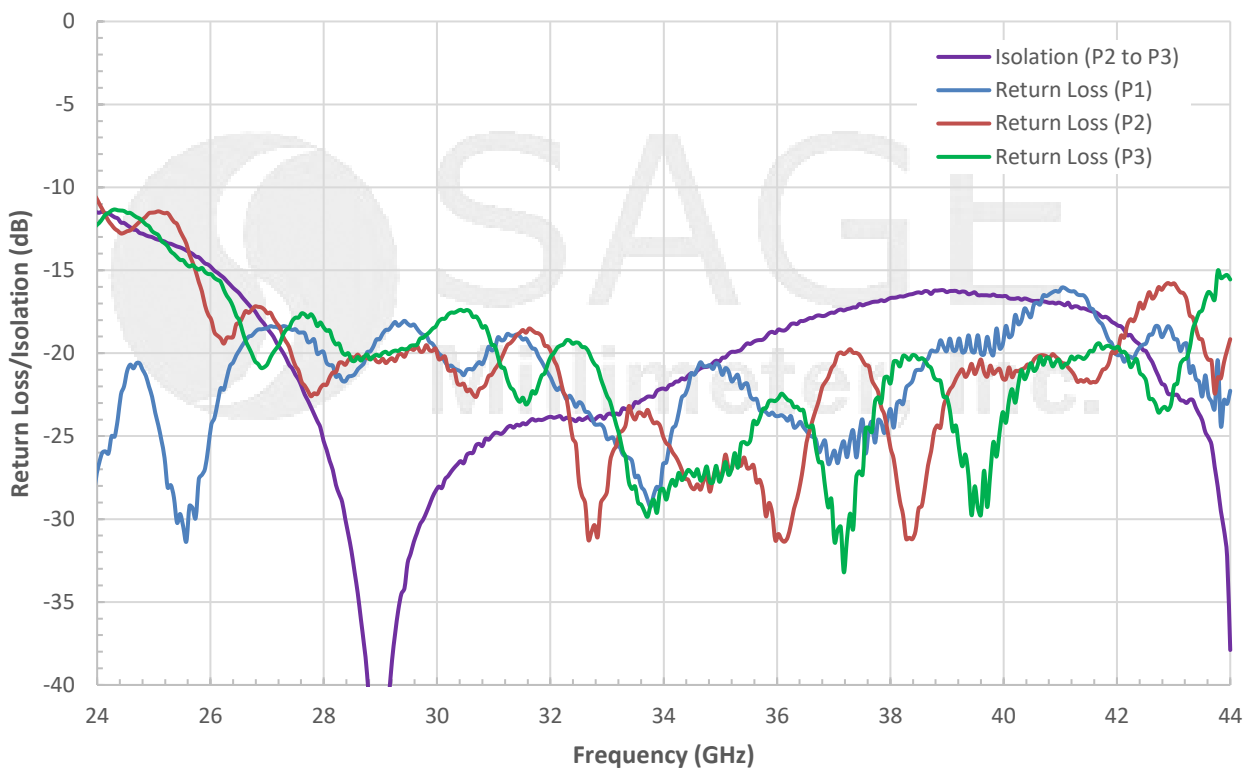


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Typical Measured Insertion Loss vs Frequency



Typical Measured Return Loss and Isolation vs Frequency

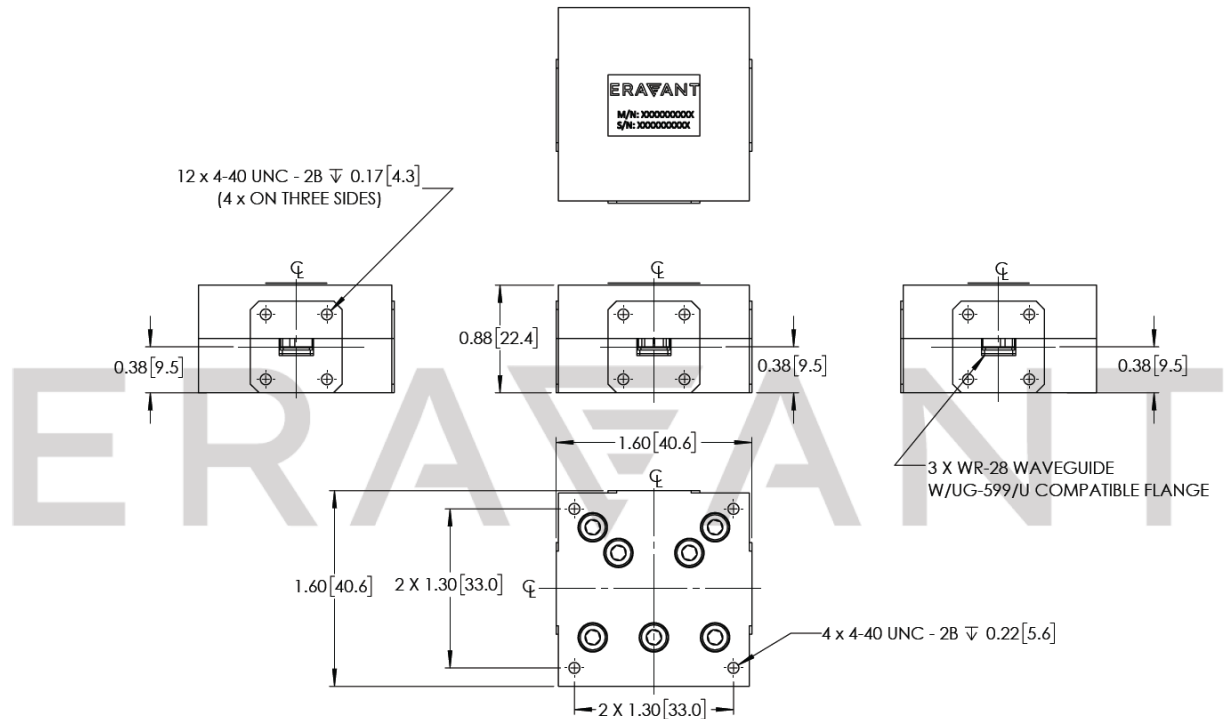


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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit, 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.

