# SWP-24344302-28-S1



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

电话:0512-62657975

### **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	- I V	18 dB	1 9
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	ada a I	+85 °C
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# **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

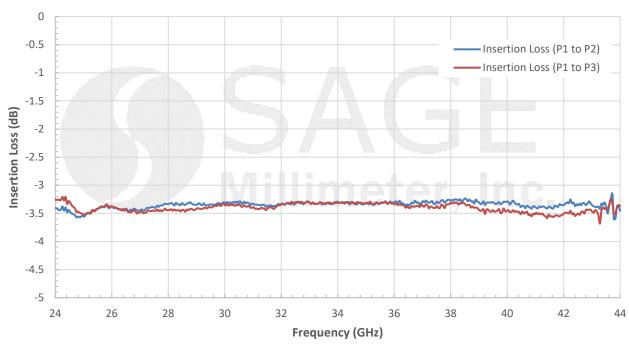


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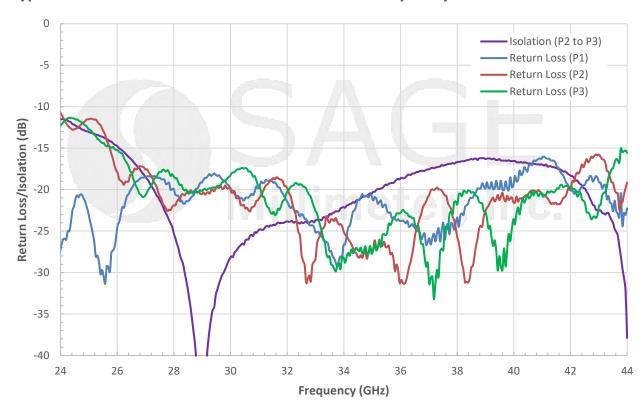
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# **Typical Measured Insertion Loss vs Frequency**



# **Typical Measured Return Loss and Isolation vs Frequency**



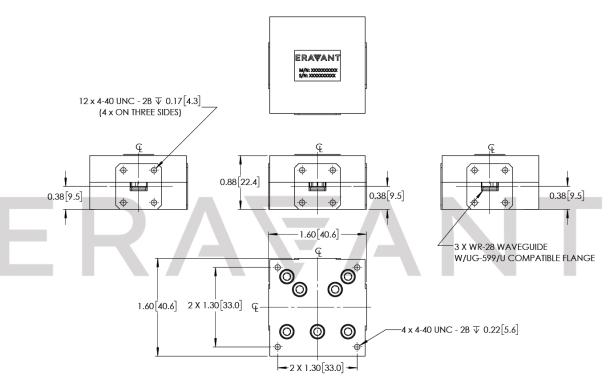


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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



#### 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.

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