



## WR-12 Waveguide Power Divider, 71 to 86 GHz, 2 Way

### Description:

**Model SWP-71386302-12-S1** is an E band, 2-way power divider with a typical insertion loss of 0.4 dB across the frequency range of 71 to 86 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-12 waveguides and UG-387/U 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	71 GHz		86 GHz
Insertion Loss		0.4 dB	
Power Unbalance		±0.3 dB	±0.5 dB
Isolation		20 dB	
Return Loss	12 dB	15 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

### Mechanical Specifications:

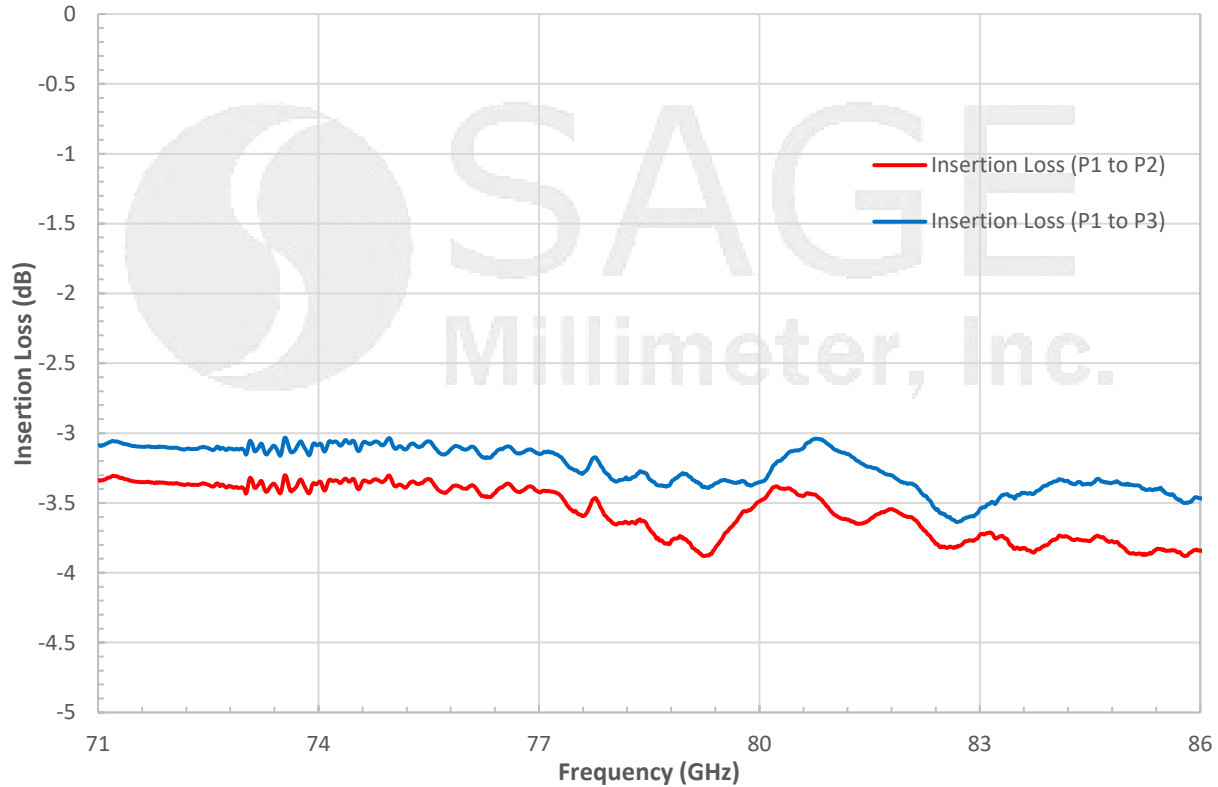
Item	Specifications
Input	WR-12 Waveguide with UG-387/U Flange
Outputs	WR-12 Waveguide with UG-387/U Flange
Material	Aluminum
Finish	Gold Plated
Weight	1.3 Oz
Outline	WP-E2



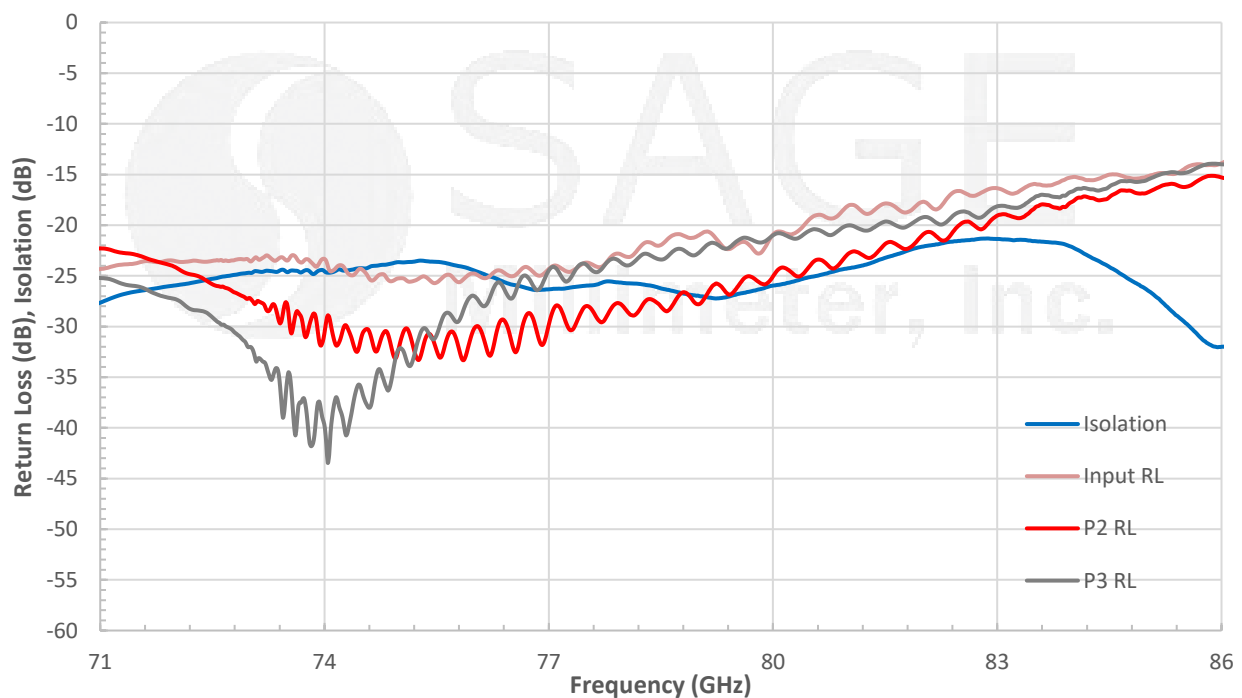


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### Typical Insertion Loss Vs Frequency



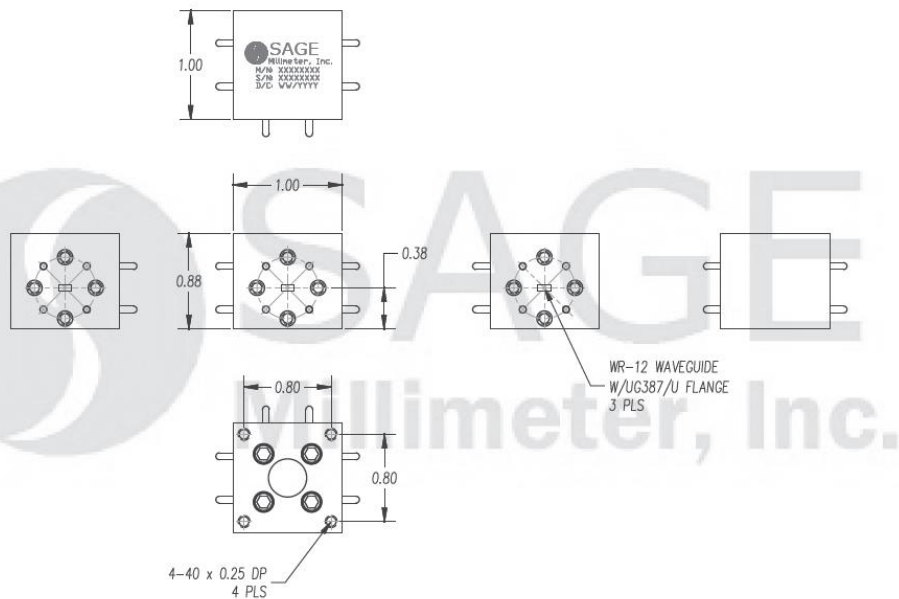
### Typical Return Loss and Isolation Vs Frequency





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



**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.
- 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.

