



## 2-Way Waveguide Power Divider, 85 to 110 GHz

### Description:

**Model SWP-85311402-10-S1-WP** is a W-band, 2-way waveguide power divider with a typical insertion loss of 0.8 dB across the frequency range of 85 to 110 GHz. The power divider offers 15 dB isolation and well-balanced ports, which can be used for in-phase power dividing or combining. This model comes as a right-angle configuration with WR-10 waveguides and UG-387/U-M anti-cocking flanges at the input and output ports.



### Features:

- Low Insertion Loss
- High Isolation
- Compact Package

### Applications:

- Test Labs
- Test Instrumentation
- Sub-assemblies

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	85 GHz		110 GHz
Power Unbalance		±0.3 dB	
Insertion Loss		0.8 dB	
Isolation		15 dB	
Input and Output Return Loss		10 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

### Mechanical Specifications:

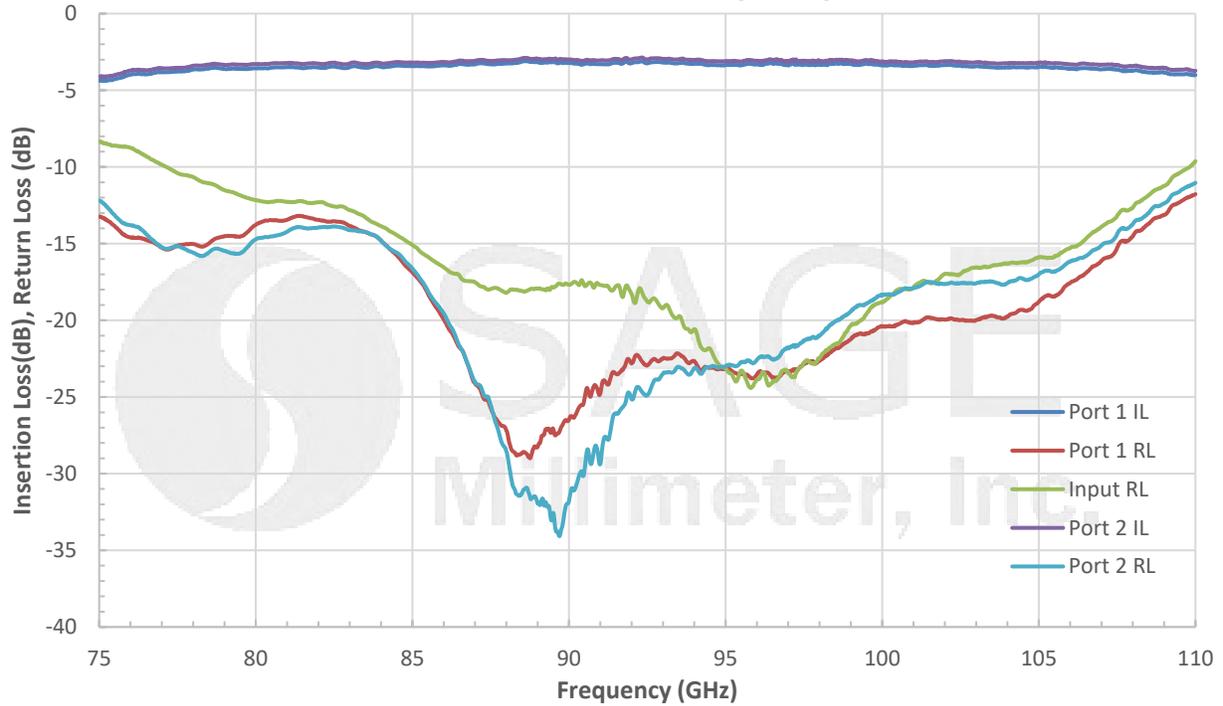
Item	Specification
Waveguide Ports	WR-10 Waveguide with UG-387/U-M Anti-Cocking Flange
Material	Aluminum
Finish	Gold Plated
Weight	1.3 Oz
Outline	WP-W2-A



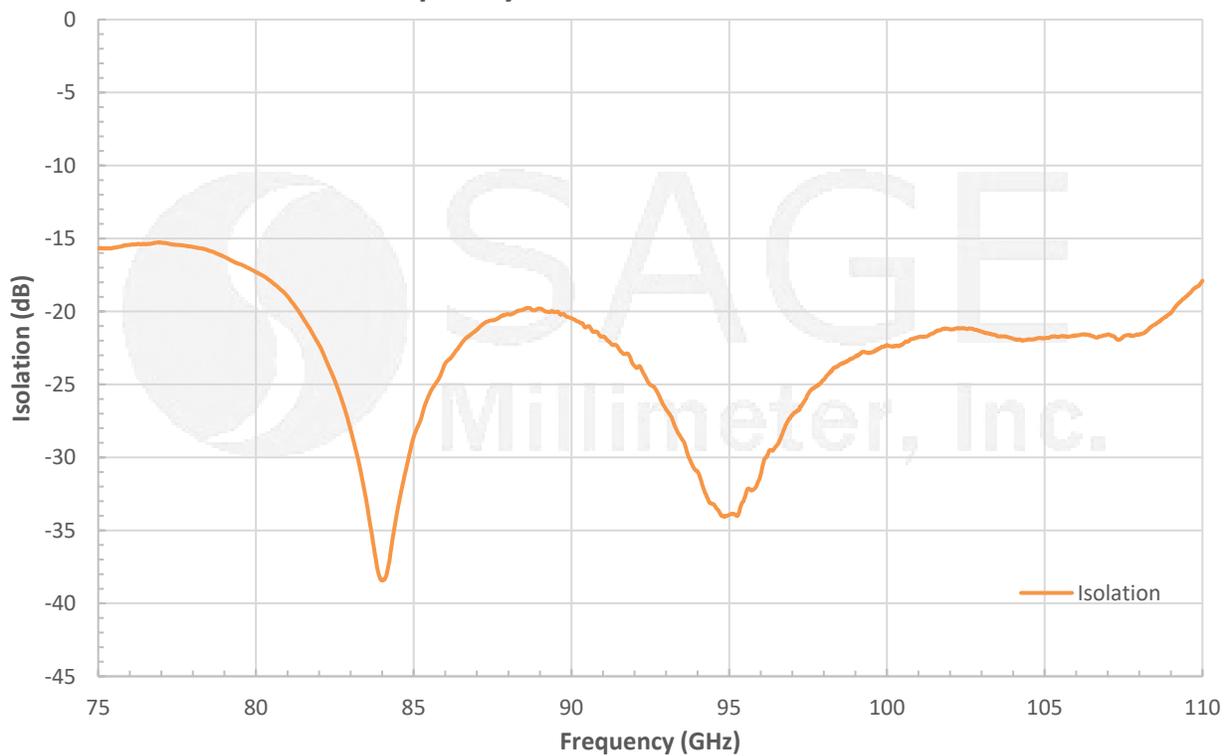


## 2-Way Waveguide Power Divider, 85 to 110 GHz

### Measured Insertion loss and Return Loss Vs Frequency



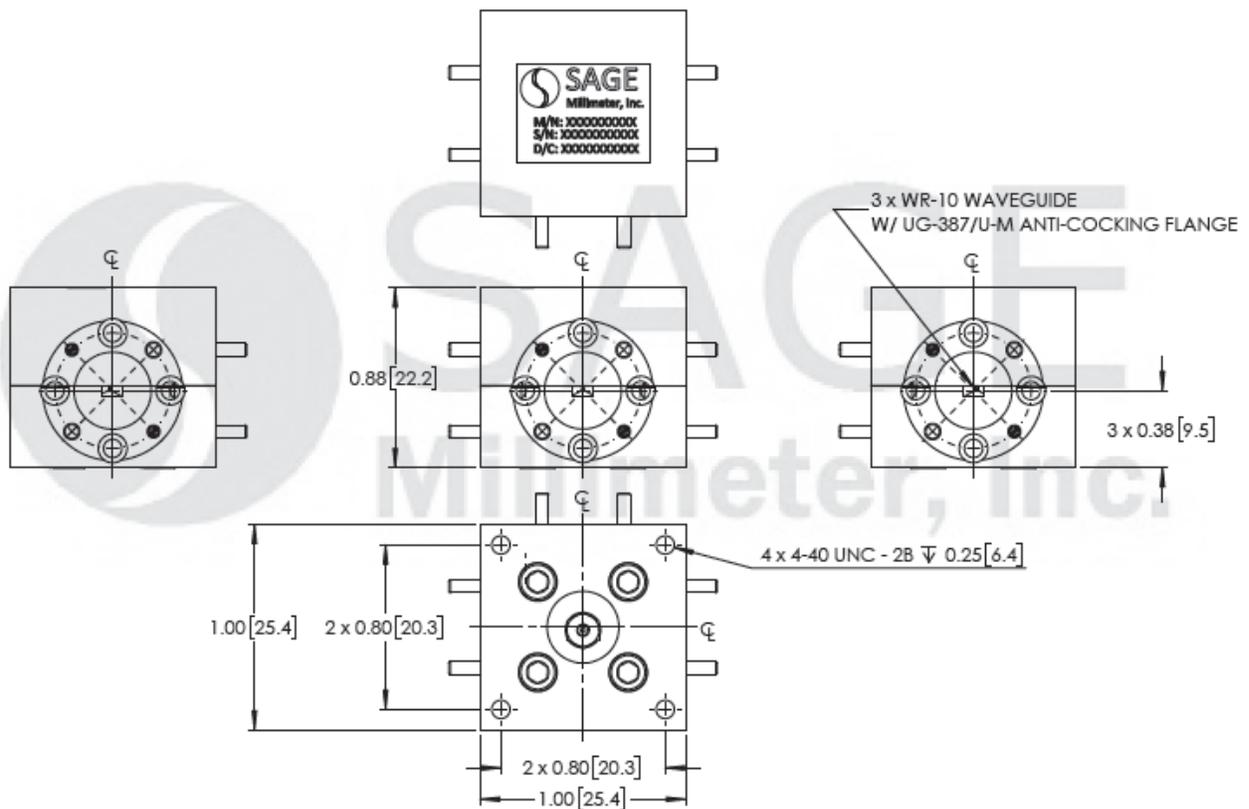
### Measured Isolation Vs Frequency





## 2-Way Waveguide Power Divider, 85 to 110 GHz

**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.
- 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.

