

# SWP-11417402-06-S1

Rev 1.1

## WR-06 Waveguide Power Divider, 2-Way, 110 to 170 GHz

### Description:

**Model SWP-11417402-06-S1** is a WR-06, 2-way power divider that operates from 110 to 170 GHz. The power divider offers a typical insertion loss of 1.5 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-06 waveguides and UG-387/U-M anti-cocking flanges at all ports. An inline, 2-way configuration is offered under model **SWP-11417402-06-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:

- Low Insertion Loss
- High Isolation
- Compact Package

### Applications:

- Test Labs
- Test Instrumentation
- Sub-assemblies

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	110 GHz		170 GHz
Insertion Loss		1.5 dB	
Power Unbalance		±0.6 dB	
Isolation		20 dB	
Return Loss		15 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

### Mechanical Specifications:

Item	Specification
RF Ports	WR-06 Waveguide with UG-387/U-M Anti-Cocking Flange
Material	Brass
Finish	Gold Plated
Weight	4.0 Oz
Outline	WP-D2-A

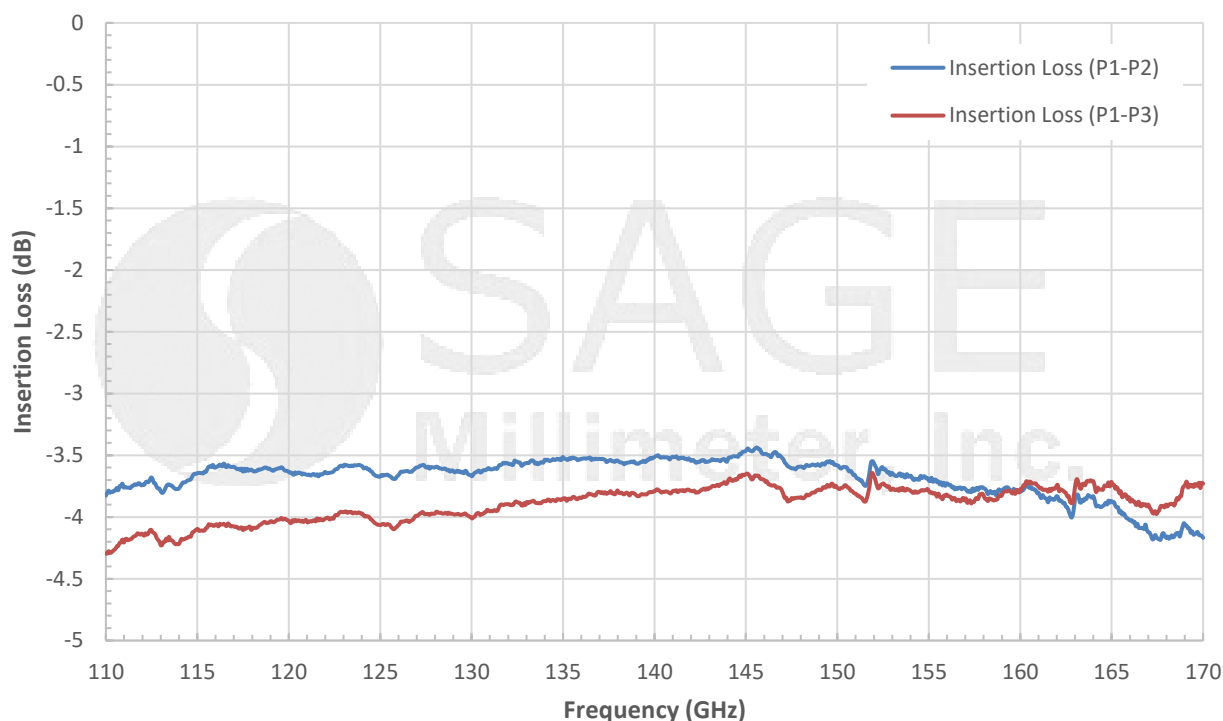


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### Typical Measured Insertion Loss vs Frequency



### Typical Measured Return Loss and Isolation vs Frequency

