



## WR-19 Waveguide Power Divider, 2 Way, 40 to 60 GHz

### Description:

**Model SWP-40360302-19-S1** is a U band, 2-way power divider that operates from 40 to 60 GHz. The power divider offers a typical insertion loss of 0.3 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-19 waveguides and UG-383/U-M anti-cocking flanges at all ports. An inline, 2-way configuration is offered under model **SWP-40360302-19-E1-3**. 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:

- Full band Performance
- Low Insertion Loss
- Excellent Port Balance
- High Isolation
- Instrumentation Grade

### Applications:

- Test Labs
- Instrumentation
- Sub-assemblies

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	40 GHz		60 GHz
Insertion Loss		0.3 dB	
Isolation		20 dB	
Return Loss		20 dB	
Power Handling			50 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

### Mechanical Specifications:

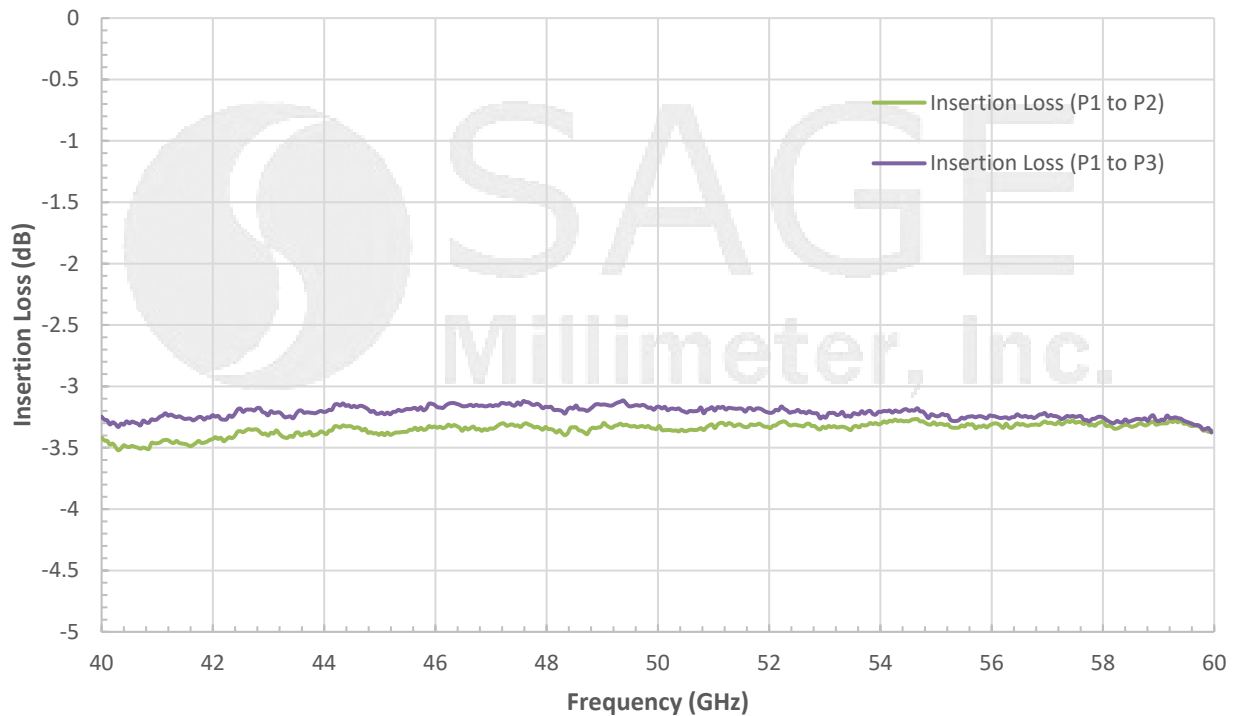
Item	Specification
RF Ports	WR-19 Waveguide with UG-383/U-M Anti-Cocking Flange
Material	Aluminum
Finish	Gold Plated
Weight	3.8 Oz
Outline	WP-U2-A-3



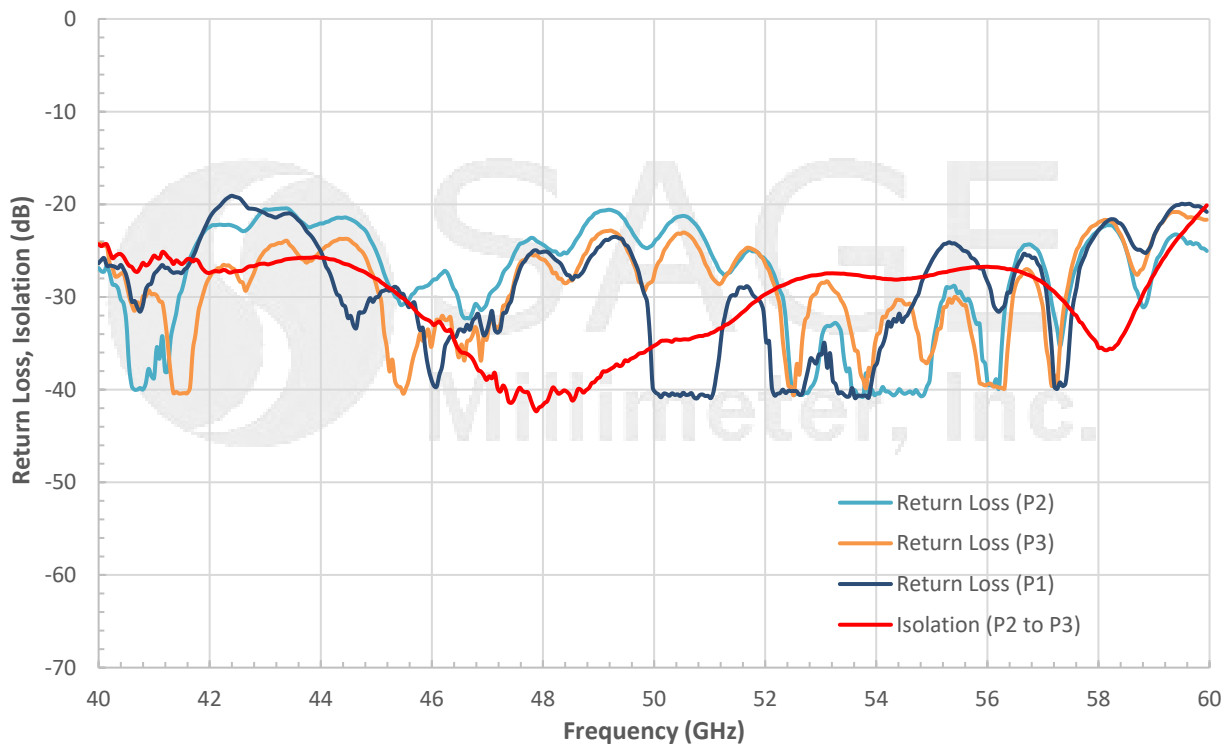


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### Typical Measured Insertion Loss Vs Frequency

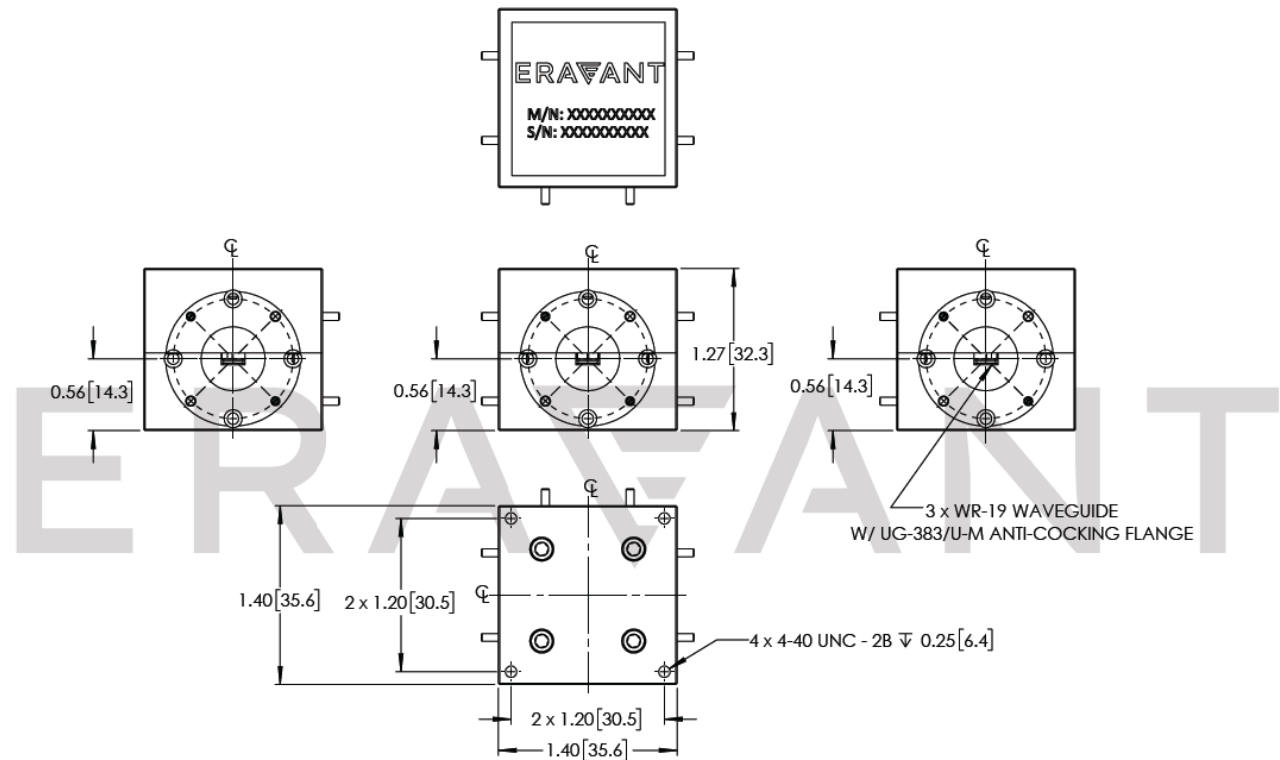


### Typical Measured Return Loss and Isolation Vs Frequency



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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.
- 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.

