lillimeter, Inc

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

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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	7	+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

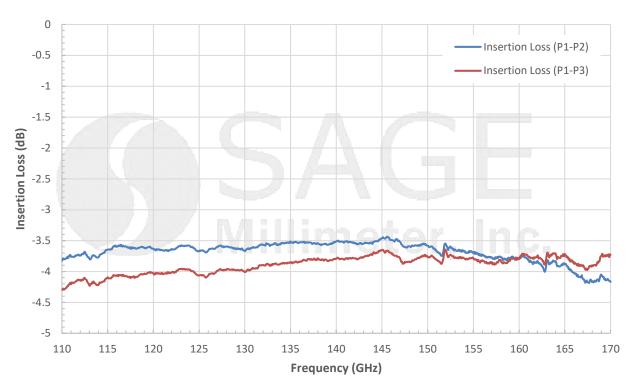
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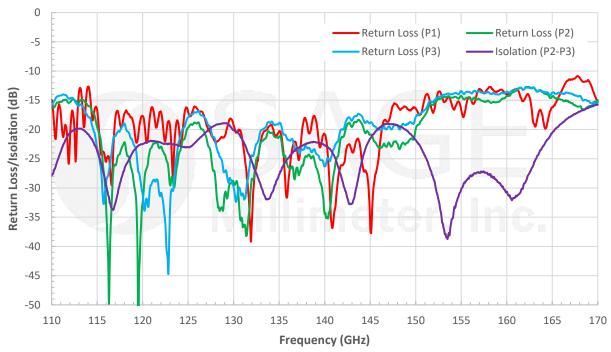
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Typical Measured Insertion Loss vs Frequency



Typical Measured Return Loss and Isolation vs Frequency



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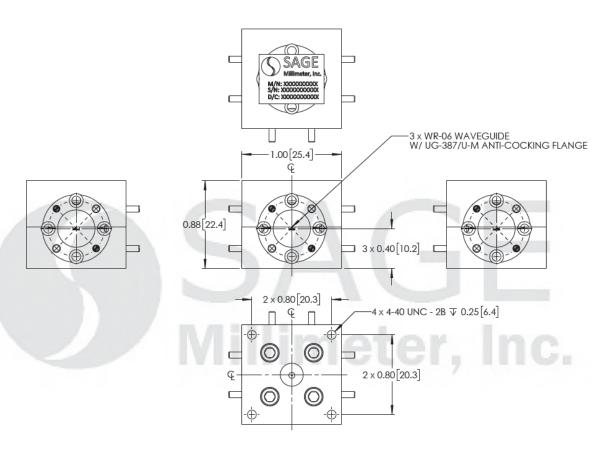
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Rev 1.1

SWP-11417402-06-S1

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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.



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