



Waveguide Power Divider, D Band, 2 Way

Description:

Model SWP-11417402-06-S1 is a D band, 2-way power divider with a typical insertion loss of 1.5 dB across the frequency range of 110 to 170 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-06 waveguides and UG-387/U-M anti-cocking 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	110 GHz		170 GHz
Power Unbalance		±0.6 dB	
Insertion Loss		1.5 dB	
Isolation		20 dB	
Input/Output Return Loss		15 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

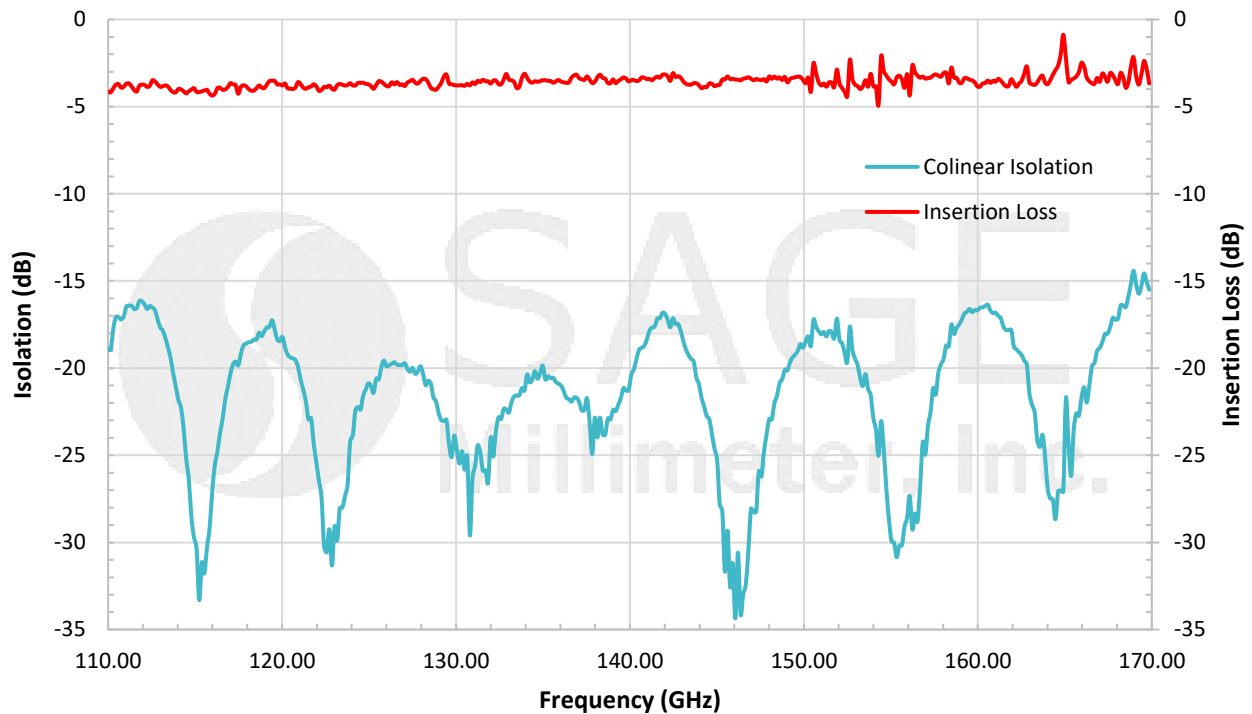
Item	Specification
Input	WR-06 Waveguide with UG-387/U-M Anti-Cocking Flange
Outputs	WR-06 Waveguide with UG-387/U-M Anti-Cocking Flange
Housing Material	Aluminum
Finish	Gold Plated
Weight	1.2 Oz
Size	1.00" (L) X 1.00" (W) X 0.88" (H)
Outline	WP-D2-A



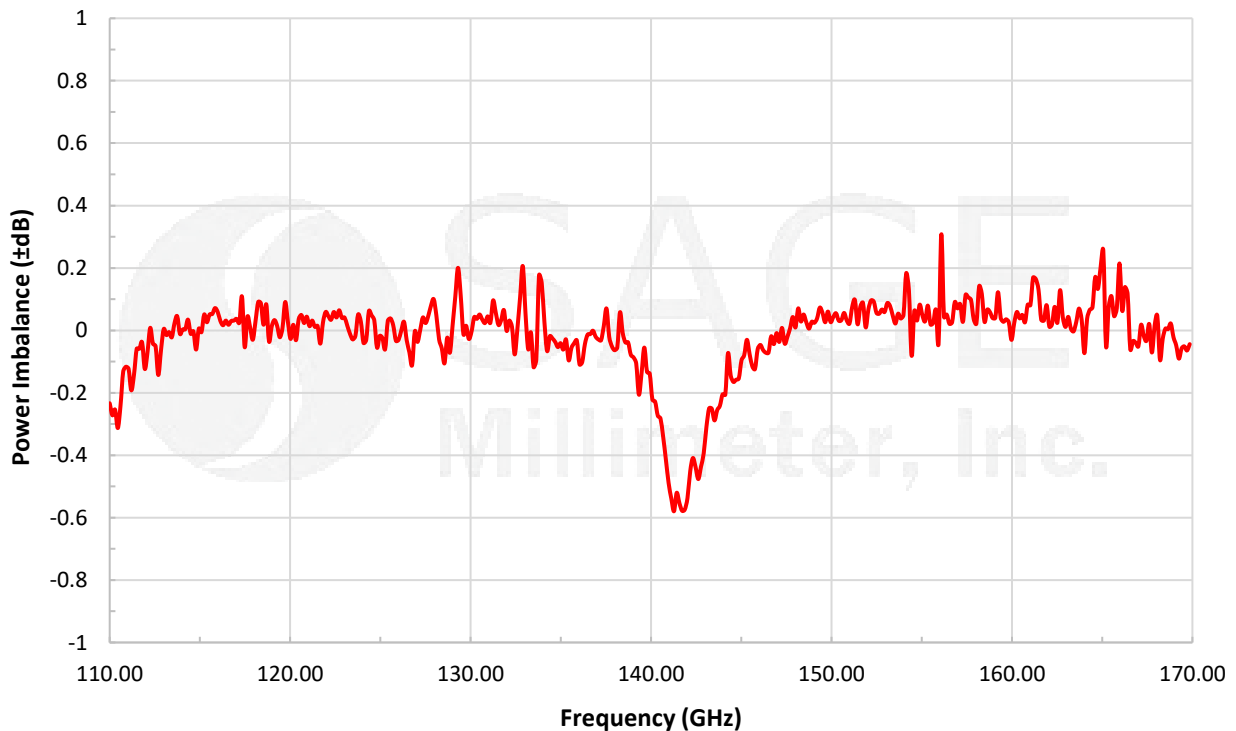


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Typical Isolation and Insertion Loss vs Frequency



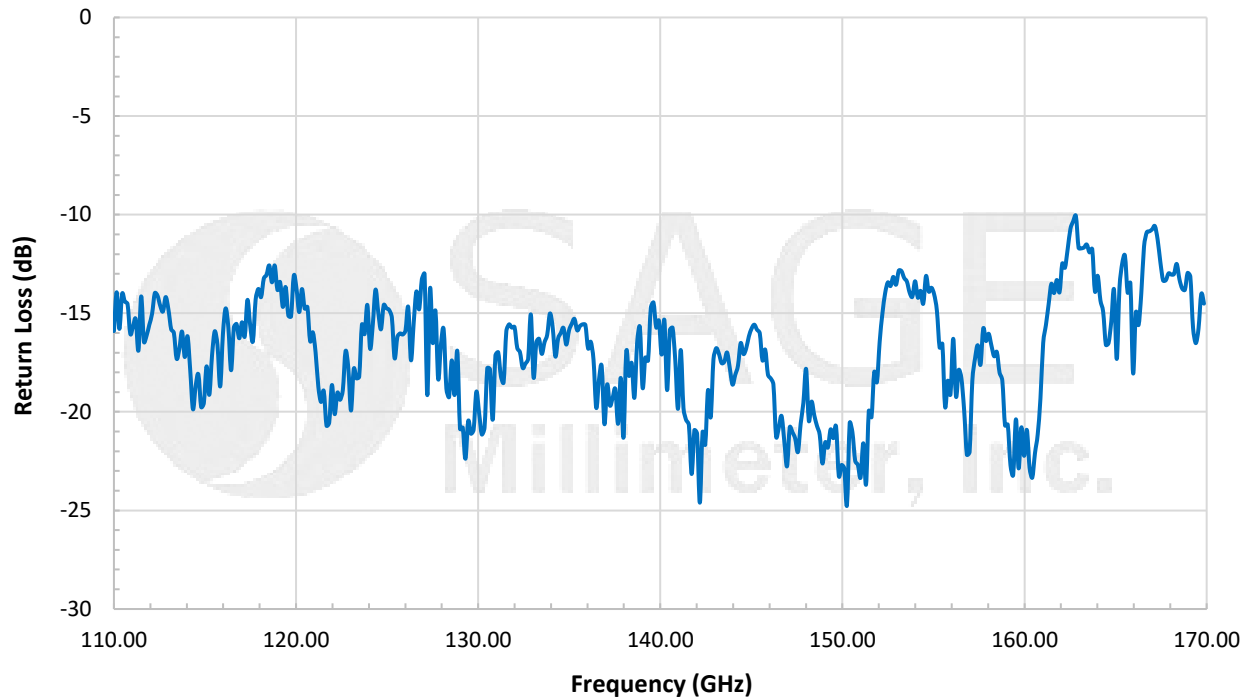
Typical Power Imbalance vs Frequency



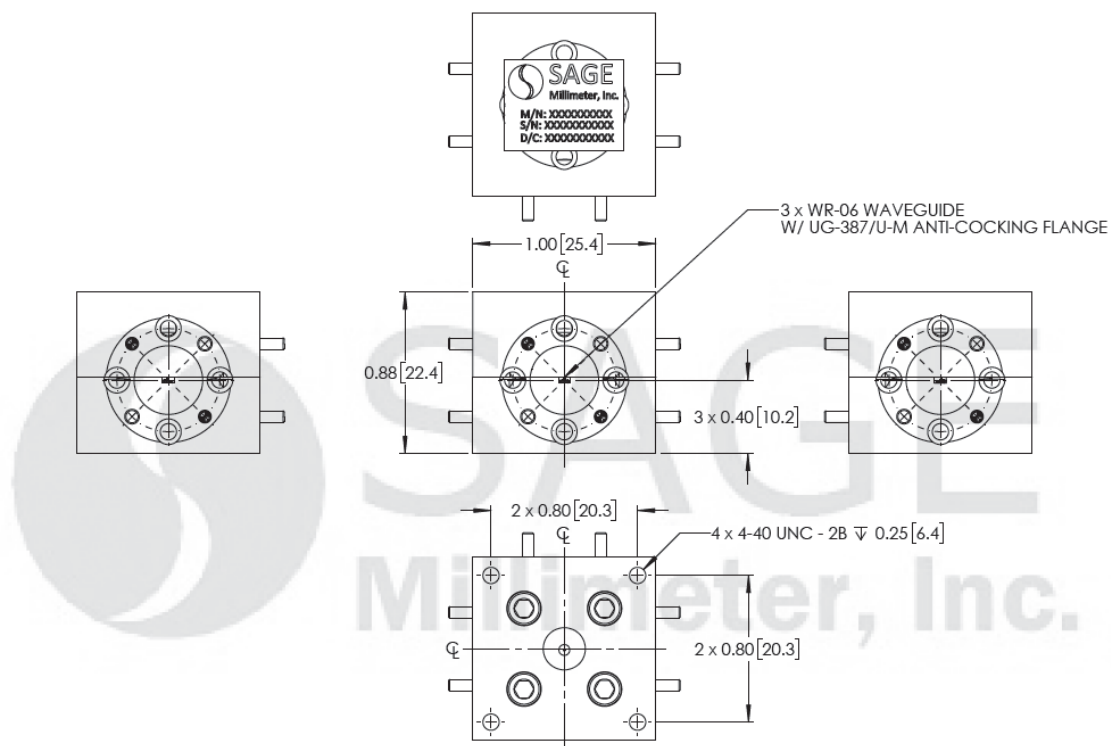


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Typical Return Loss vs Frequency



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



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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.
- SAGE Millimeter, Inc. 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.

