



2-Way Waveguide Power Divider, 75 to 110 GHz

Description:

Model SWP-75311402-10-S1 is a W-band, 2-way waveguide power divider with a typical insertion loss of 0.5 dB across the frequency range of 75 to 110 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-10 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	75 GHz		110 GHz
Power Unbalance		±0.3 dB	±0.5 dB
Insertion Loss		0.5 dB	
Isolation		20 dB	
Input/Output Return Loss			14 dB
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

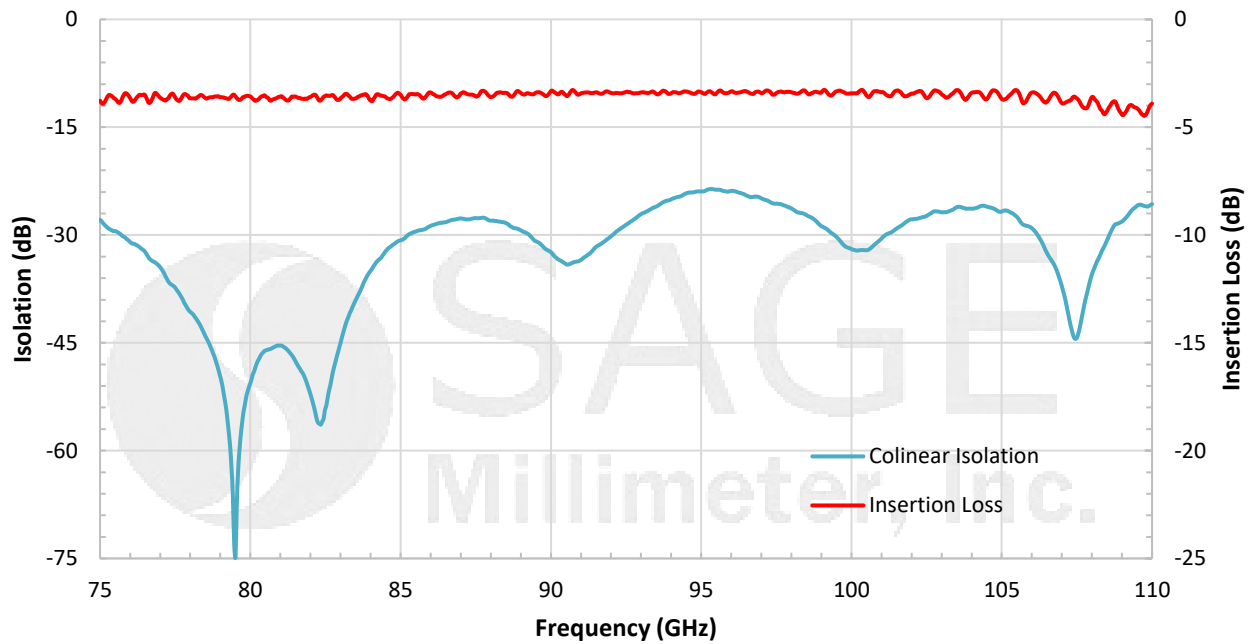
Item	Specification
Input Port	WR-10 Waveguide with UG-387/U-M Anti-Cocking Flange
Output Ports	WR-10 Waveguide with UG-387/U-M Anti-Cocking Flange
Material	Aluminum
Finish	Gold Plated
Weight	1.3 Oz
Size	1.00" (L) X 1.00" (W) X 0.88" (H)
Outline	WP-W2-A



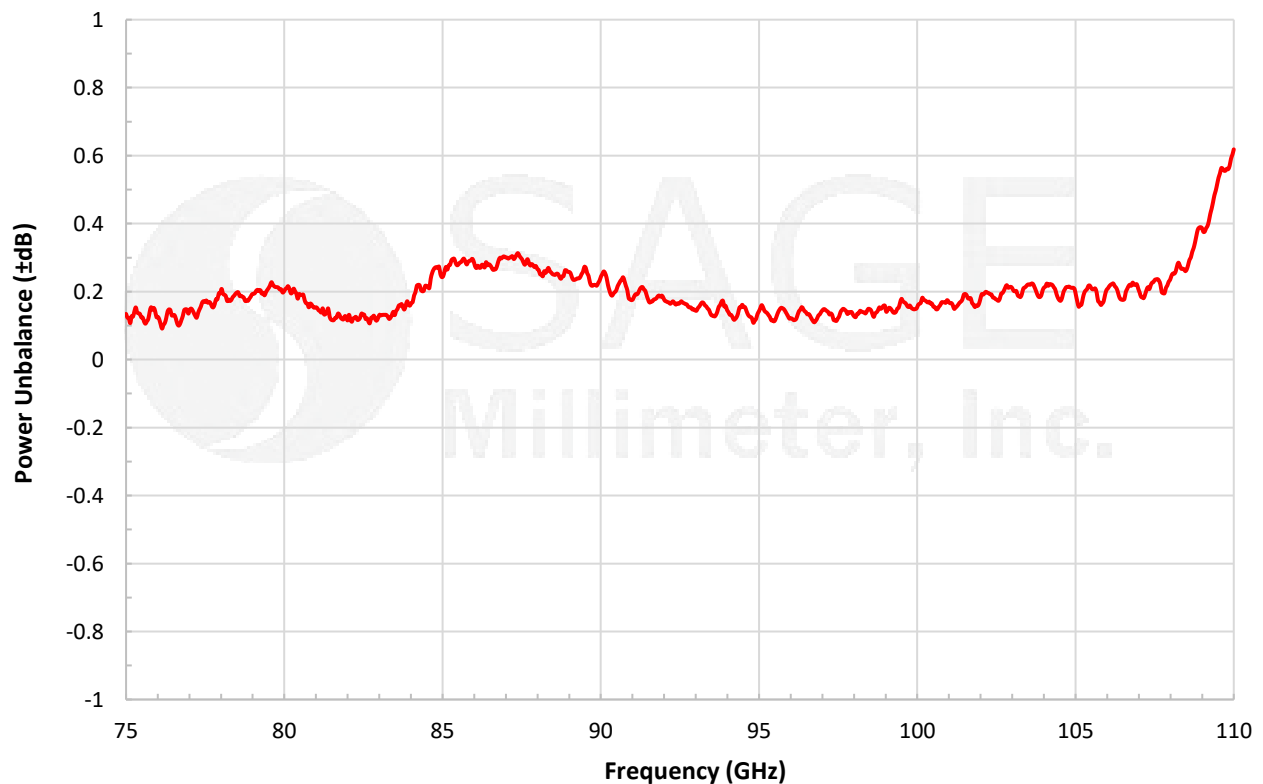


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Typical Isolation and Insertion Loss vs Frequency



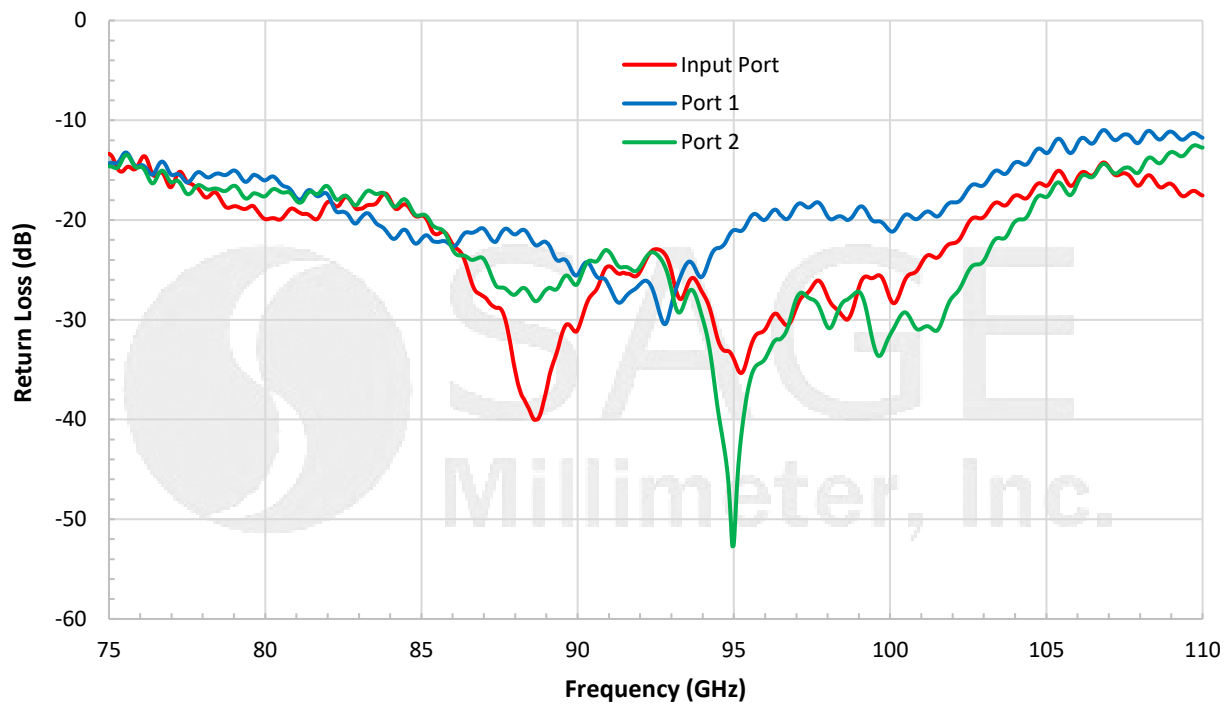
Typical Power Unbalance vs Frequency



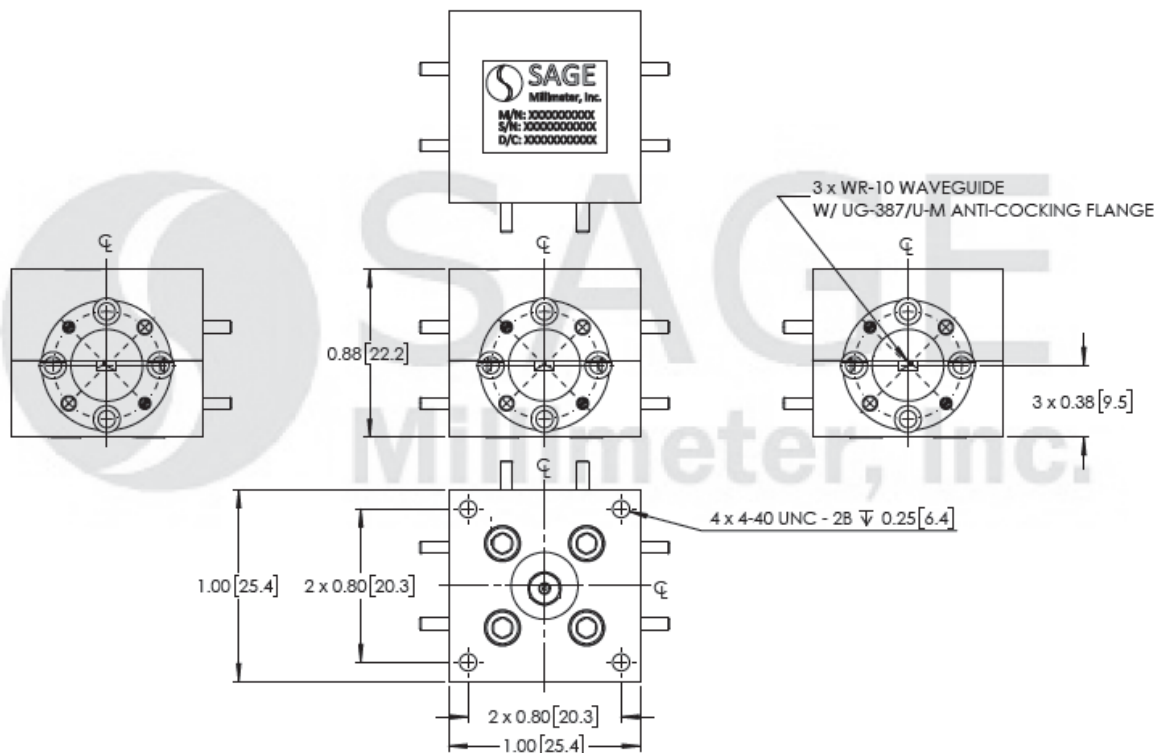


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Typical Return Loss vs Frequency



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.

