

SWP-75311402-10-S1-2

Rev. 1.0

2-Way Waveguide Power Divider, 75 to 105 GHz

Description:

Model SWP-75311402-10-S1-2 is a W-band, 2-way waveguide power divider with a typical insertion loss of 0.8 dB across the frequency range of 75 to 105 GHz. The power divider offers 20 dB isolation and well-balanced ports, which can be used for in-phase power dividing or combining. This model comes as a right-angle configuration with WR-10 waveguides and UG-387/U-M anti-cocking flanges at the input and output ports.



Features:

- Low Insertion Loss
- High Isolation
- Compact Package

Applications:

- Test Labs
- Test Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	75 GHz		105 GHz
Power Unbalance		±0.3 dB	
Insertion Loss		0.8 dB	
Isolation		20 dB	
Input and Output Return Loss		15 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
Waveguide Ports	WR-10 Waveguide with UG-387/U-M Anti-Cocking Flange
Material	Aluminum
Finish	Gold Plated
Weight	1.3 Oz
Outline	WP-W2-A

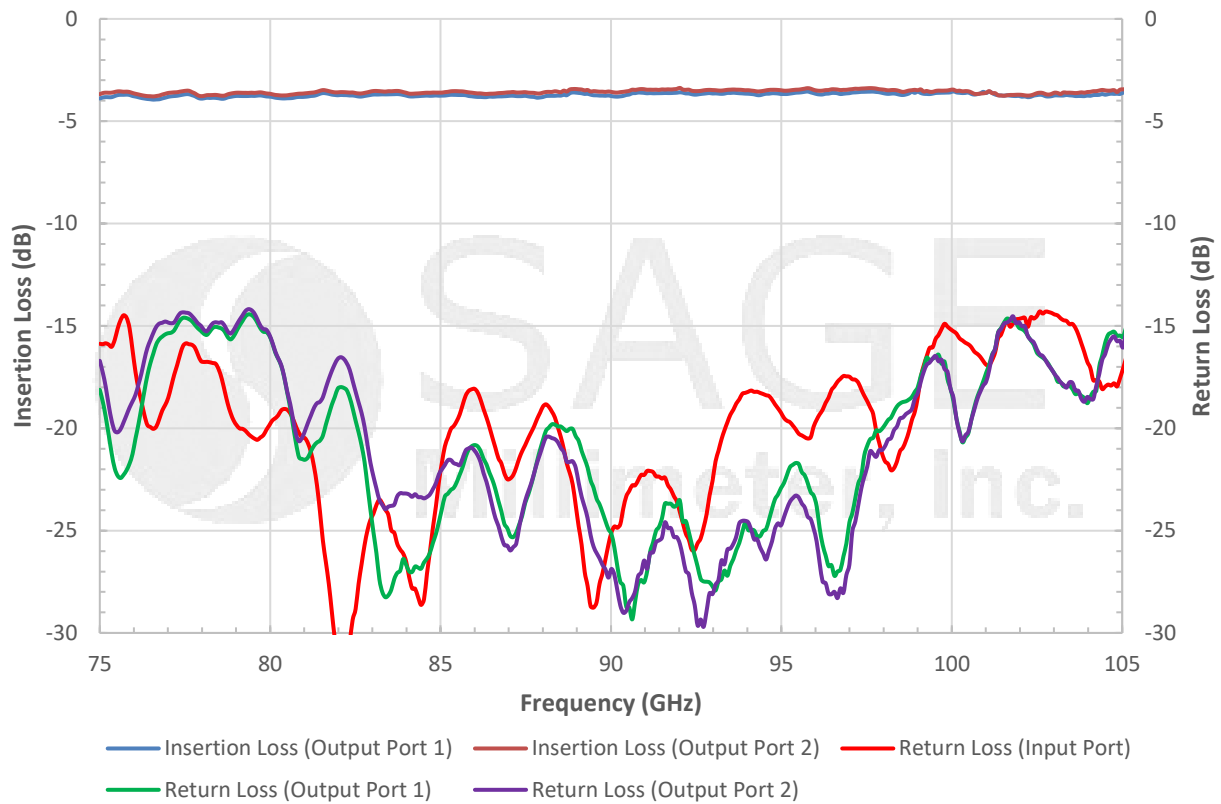


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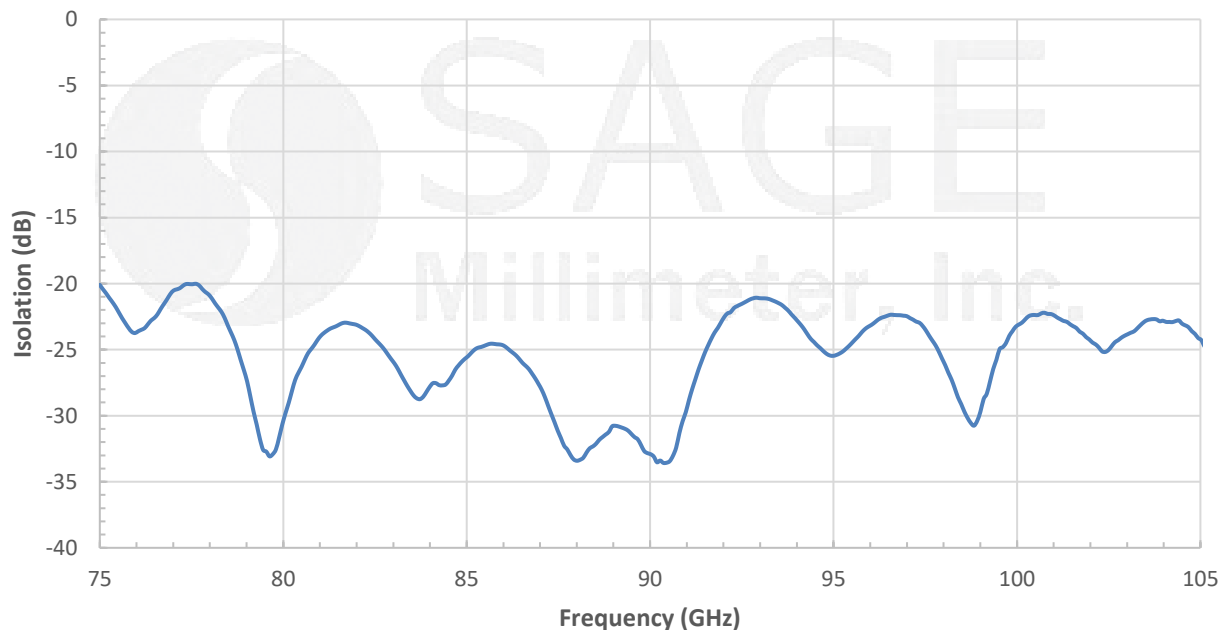
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Typical Insertion and Return Loss vs Frequency



Typical Isolation vs Frequency

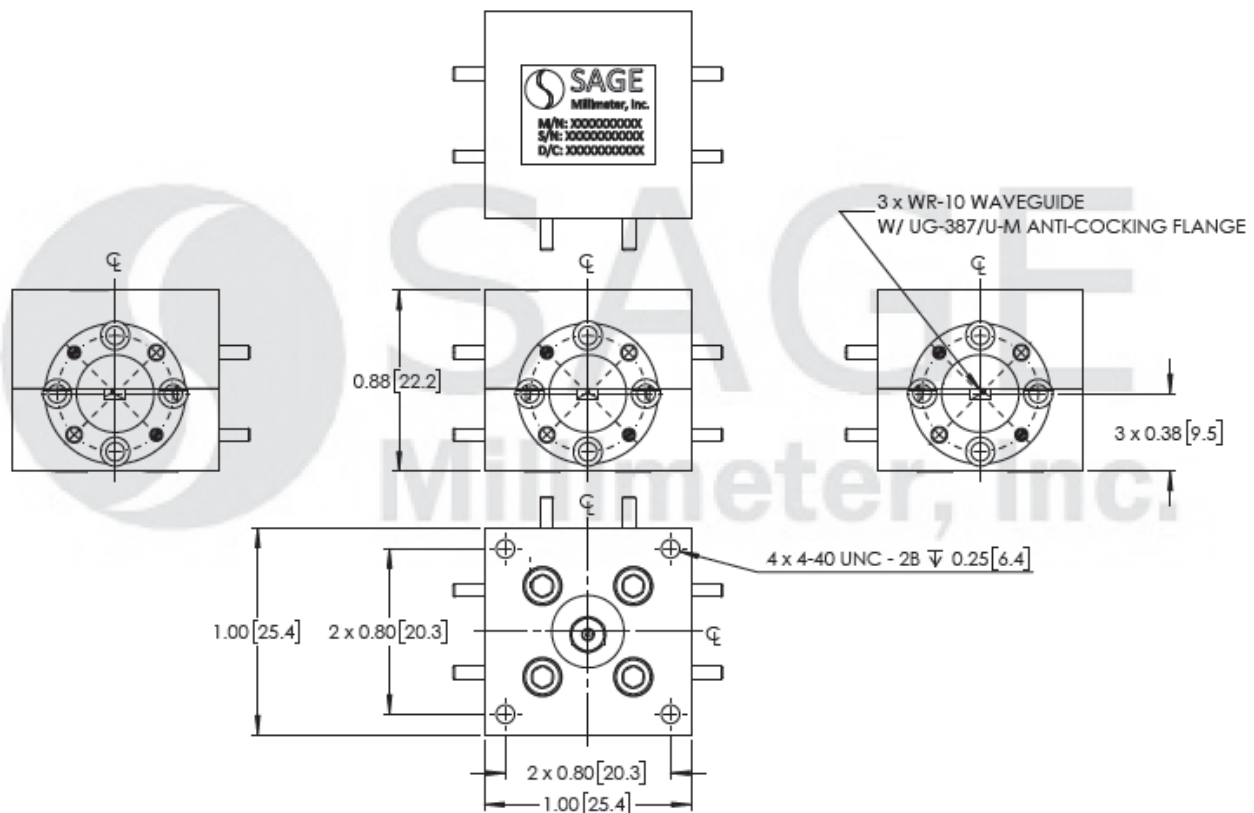


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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



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.
- 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.

