SWP-75311402-10-S1

Full Band WR-10 Waveguide Power Divider, 2-Way, 75 to 110 GHz

Description:

Model SWP-75311402-10-S1 is a full band WR-10, 2-way power divider that operates from 75 to 110 GHz. The power divider offers a typical insertion loss of 0.8 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-10 waveguides and UG-387/U-M anti-cocking flanges at all ports. An inline, 2-way configuration is offered under model **SWP-75311402-10-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:

- Full Band Performance from 75 to 110 GHz
- 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
Insertion Loss		0.8 dB	
Power Unbalance		±0.3 dB	
Isolation		20 dB	
Return Loss		15 dB	
Specification Temperature		+25 ˚C	
Operating Temperature	-40 ˚C		+85 ˚C

Mechanical Specifications:

Item	Specification
RF Ports	WR-10 Waveguide with UG-387/U-M Anti-Cocking Flange
Material	Brass
Finish	Gold Plated
Weight	3.9 Oz
Outline	WP-W2-A-2

www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505
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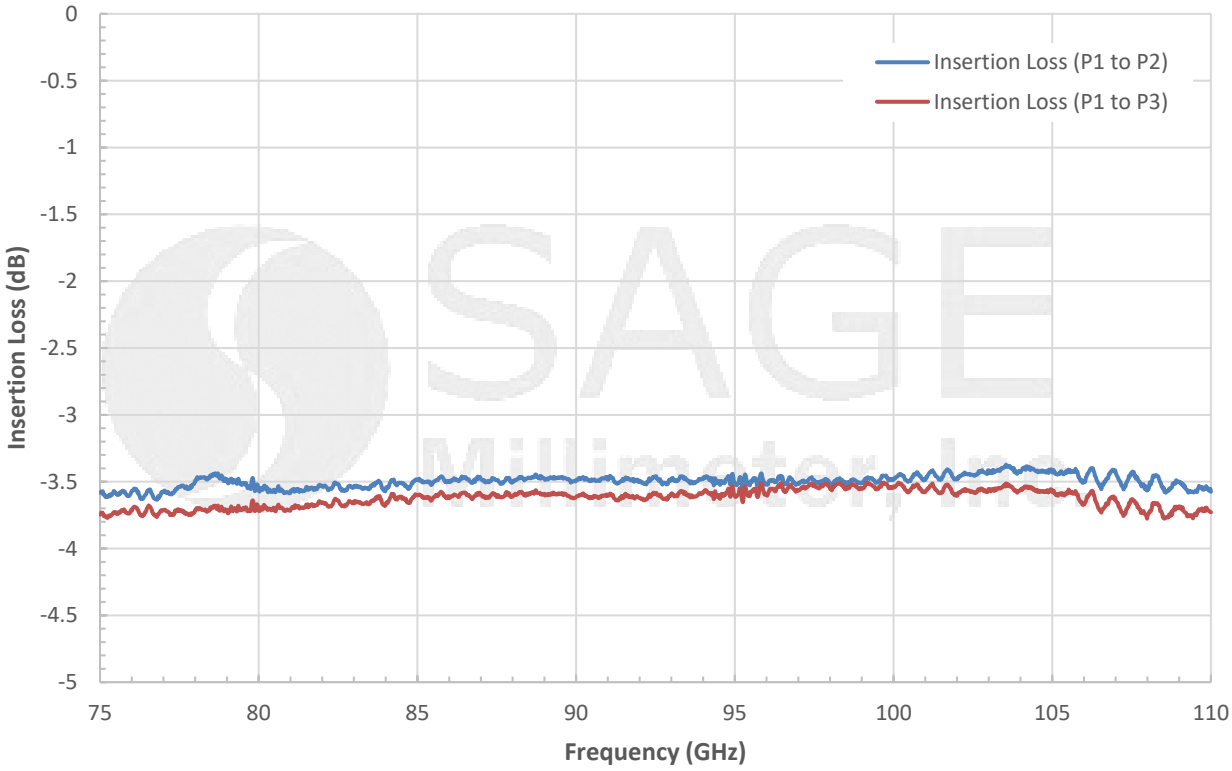
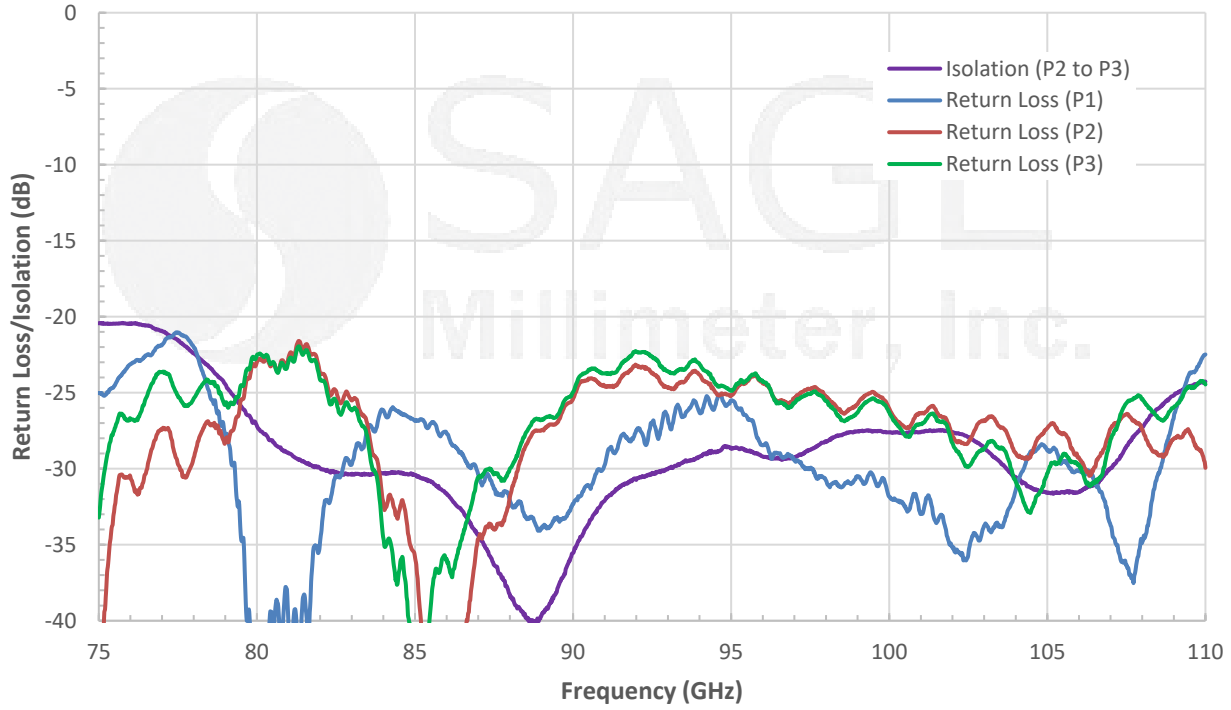
Typical Measured Insertion Loss vs Frequency



Typical Measured Return Loss and Isolation vs Frequency



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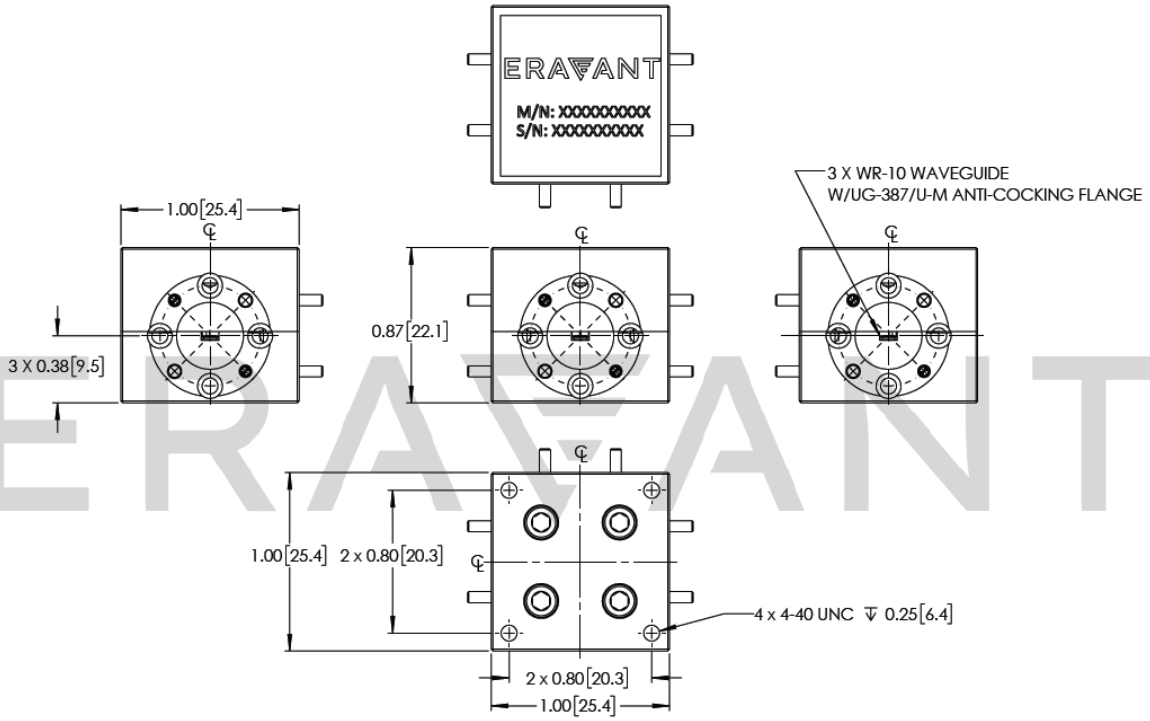
Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



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.
- 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.