

SWP-50375302-15-S1

Rev. 1.3

WR-15 Waveguide Power Divider, 50 to 75 GHz

Description:

Model SWP-50375302-15-S1 is a WR-15, 2-way power divider that operates from 50 to 75 GHz. The power divider offers a typical insertion loss of 0.5 dB across the frequency range of 50 to 75 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-15 waveguides and UG-385/U anti-cocking flanges at the input and outputs ports.



Features:

- Low Insertion Loss
- High Isolation
- Compact Package

Applications:

- Test Labs
- Test Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	50 GHz		75 GHz
Power Unbalance		±0.3 dB	
Insertion Loss		0.5 dB	
Isolation		20 dB	
Input and Output Return Loss		20 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
Waveguide Ports	WR-15 Waveguide with UG-385/U Anti-Cocking Flange
Material	Brass
Finish	Gold Plated
Weight	1.3 Oz
Outline	WP-V2-A-2

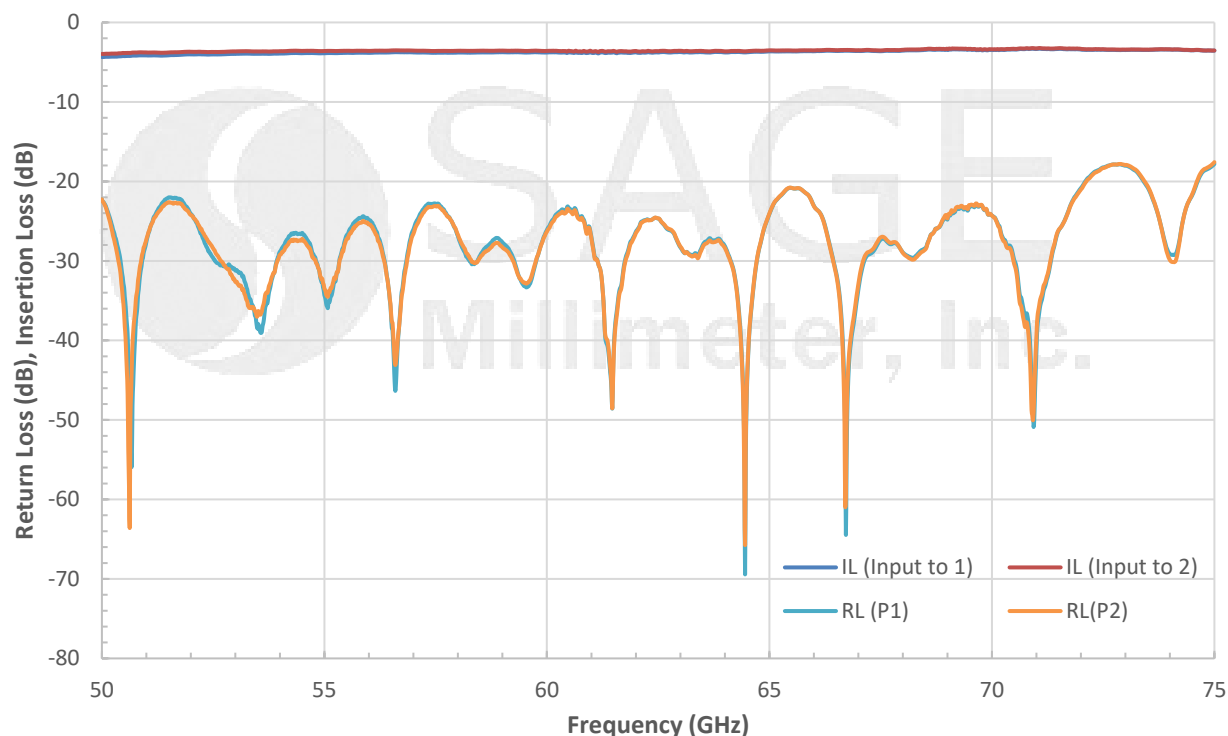


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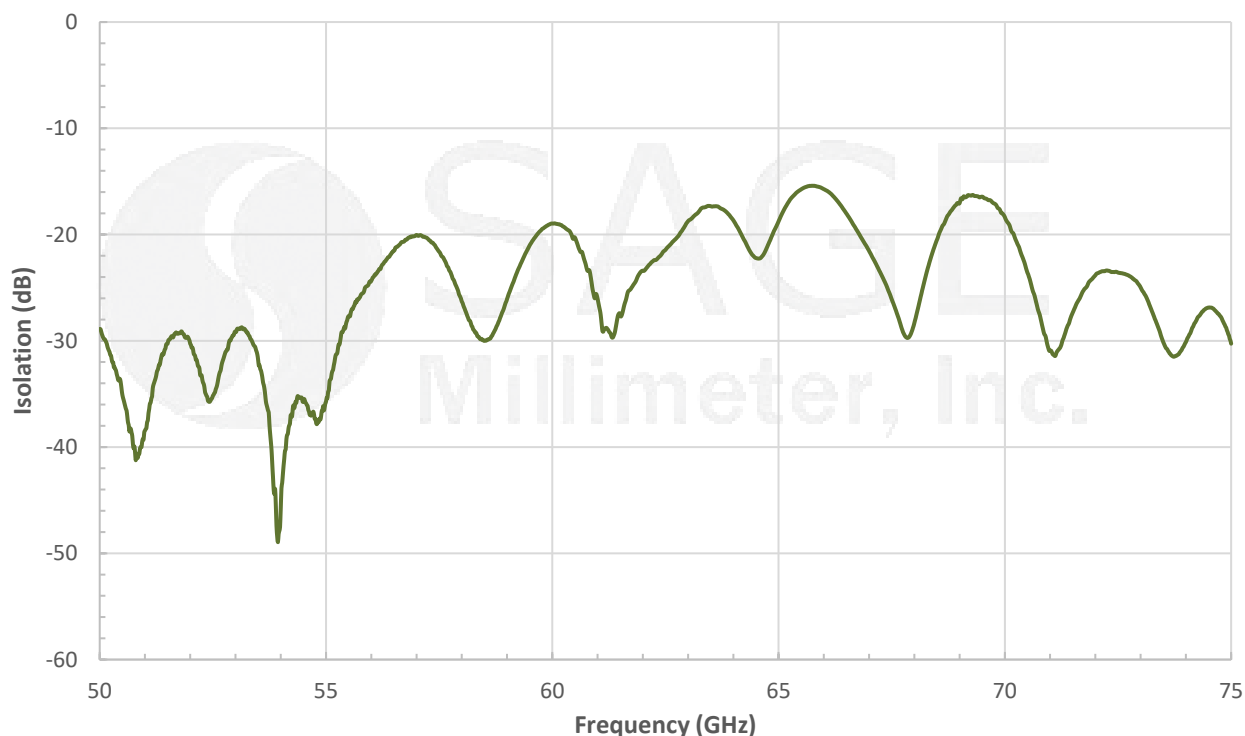
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Typical Return Loss and Insertion Loss Vs Frequency



Typical Isolation Vs Frequency

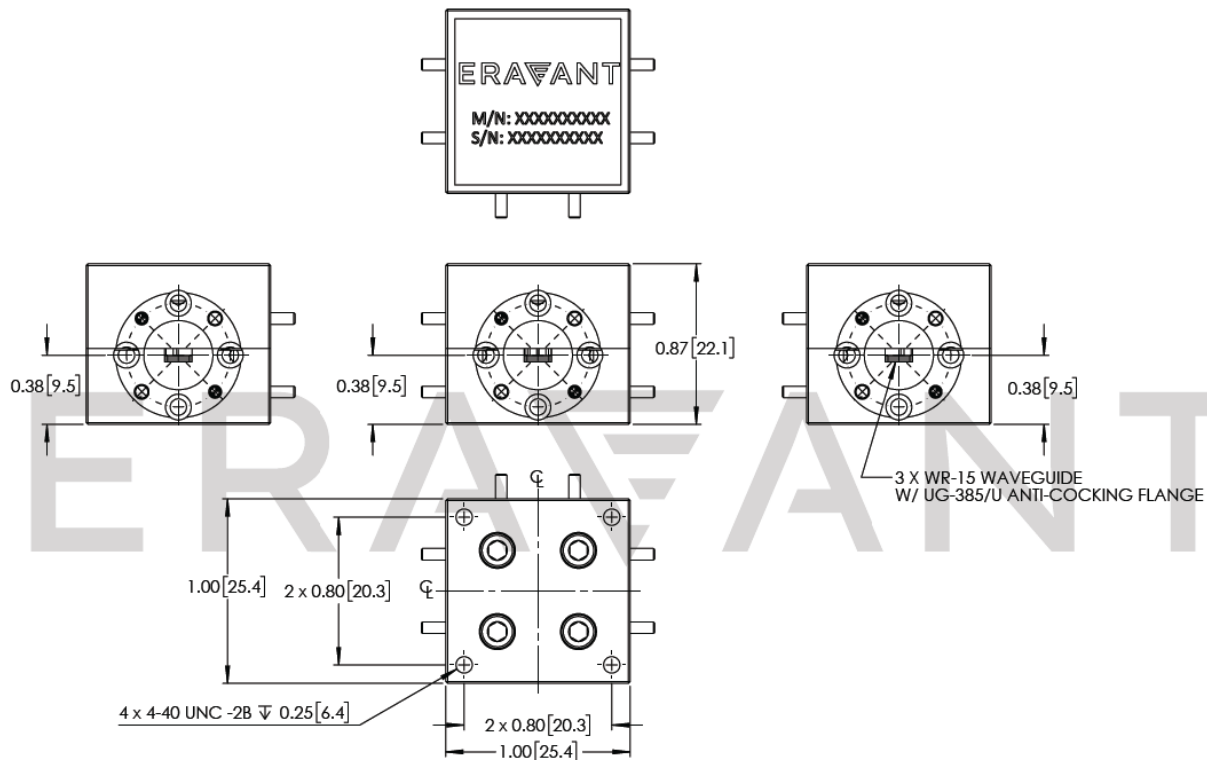


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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



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.
- 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.

