

SWP-50370302-15-S1

Rev. 1.0

2-Way Waveguide Power Divider, 50 to 70 GHz

Description:

Model SWP-50370302-15-S1 is a V band, 2-way power divider with a typical insertion loss of 0.5 dB across the frequency range of 50 to 70 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-15 waveguides and UG-385/U 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	50 GHz		70 GHz
Power Unbalance			±0.20 dB
Insertion Loss		0.5 dB	0.8 dB
Isolation		20 dB	
Input/Output VSWR			1.5:1
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Input	WR-15 Waveguide with UG-385/U Flange
Output	WR-15 Waveguide with UG-385/U Flange
Size	1.00" (L) X 1.00" (W) X 0.88" (H)
Material	Aluminum
Finish	Gold Plated
Weight	1.3 Oz
Outline	WP-V2

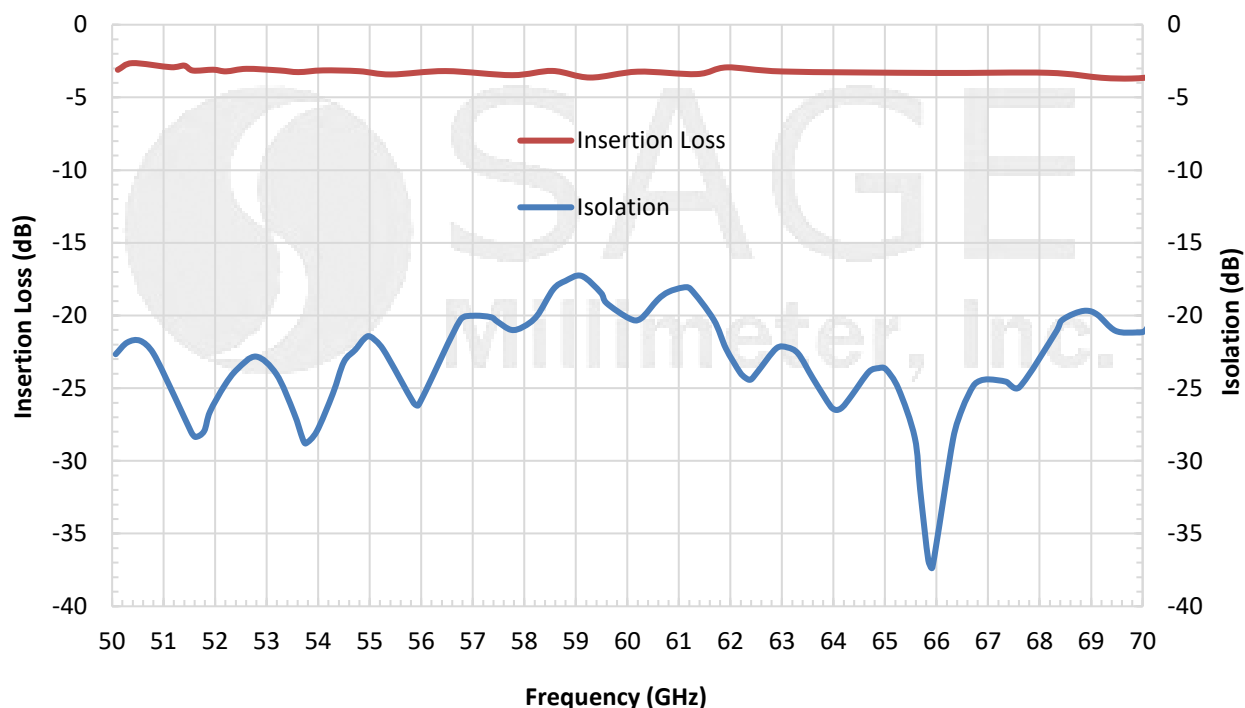


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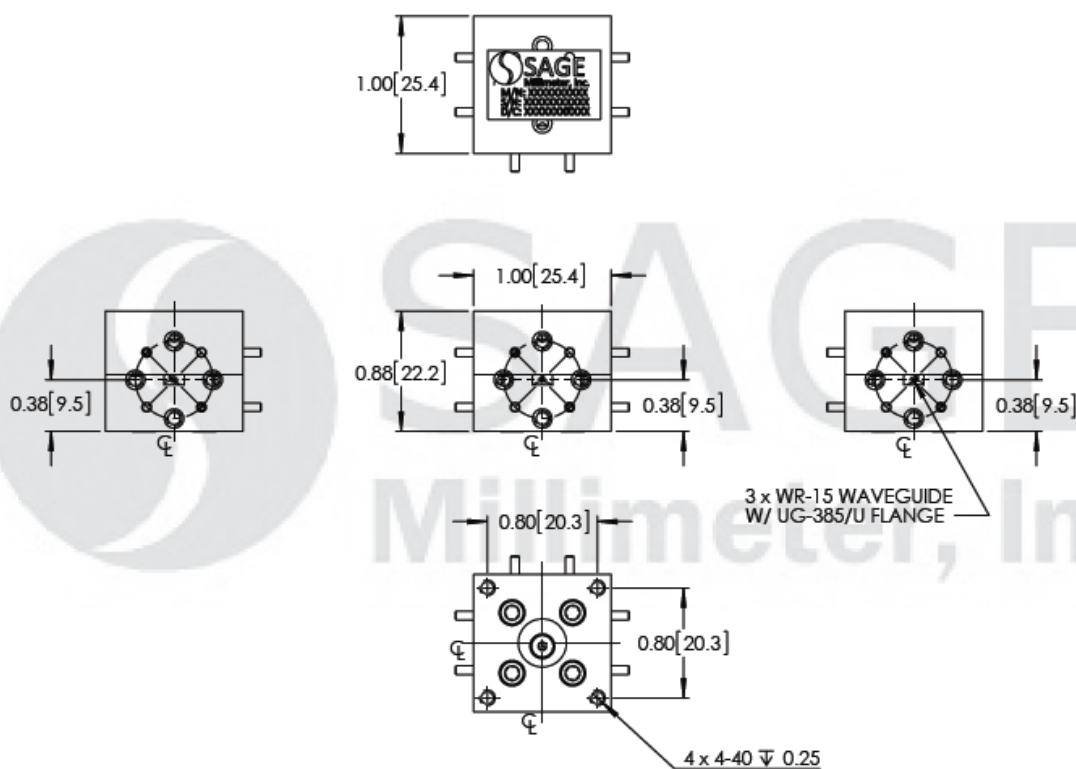
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Typical Insertion Loss and Isolation vs. Frequency



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



www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505
Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com



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Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- 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 cause performance degradation and possible device damage.

