

Q-Band Waveguide Power Divider, 2 Way, 40 to 50 GHz

Description:

Model SWP-40350302-22-S1 is a Q band, 2-way power divider with a typical insertion loss of 0.3 dB across the frequency range of 40 to 50 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-22 waveguides and UG-383/U anti-cocking flanges at the input and all outputs.



Features:

- Low Insertion Loss
- Excellent Port Balance
- High Isolation
- Instrumentation Grade

Applications:

- Test Labs
- Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	40 GHz		50 GHz
Insertion Loss		0.3 dB	0.5 dB
Port Isolation		20 dB	
Port Return Loss		17 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

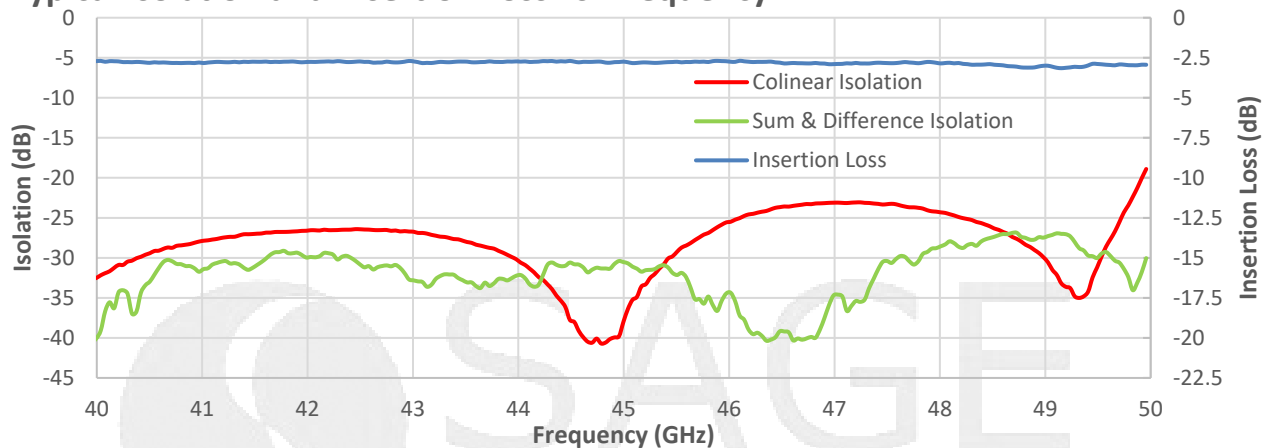
Mechanical Specifications:

Item	Specification
Input Port	WR-22 Waveguide with UG-383/U Anti-Cocking Flange
Output Ports	WR-22 Waveguide with UG-383/U Anti-Cocking Flange
Material	Aluminum
Finish	Gold Plated
Weight	3.7 Oz
Size	1.40" (L) X 1.40" (W) X 1.27" (H)
Outline	WP-Q2-A

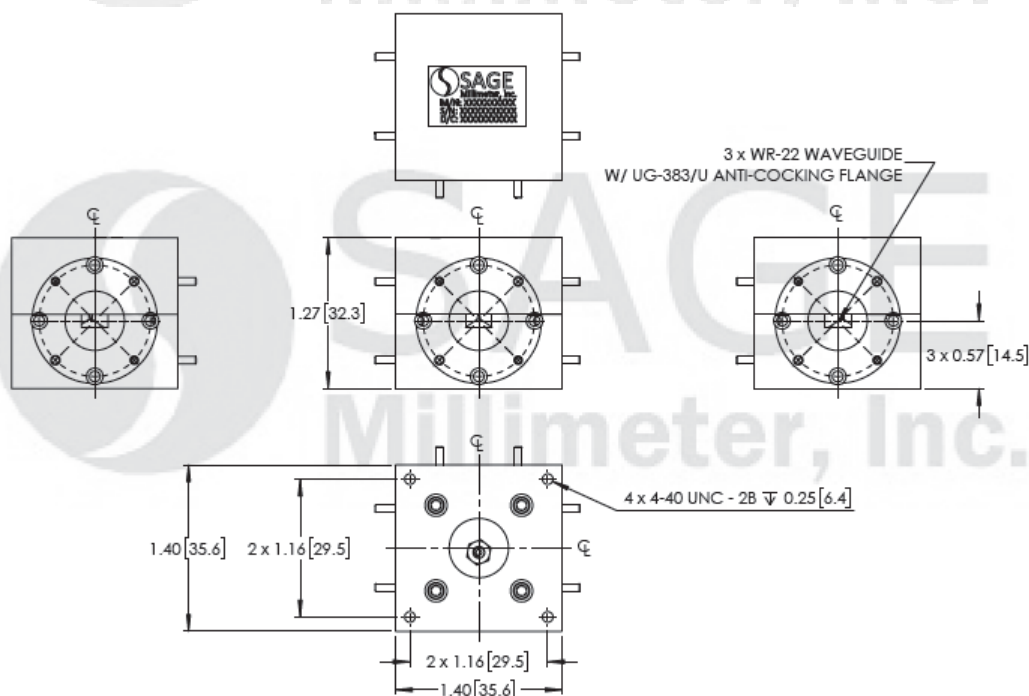


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Typical Isolation and Insertion Loss vs. Frequency



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.



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