

Q-Band Waveguide Power Divider, 4 Way, 40 to 50 GHz

Description:

Model SWP-40350304-22-E1-599-WPC is a Q band, 4-way power divider with a typical insertion loss of 1.0 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 an in-line configuration with WR-22 waveguides and UG-599/U-M 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		1.0 dB	1.5 dB
Return Loss		20 dB	
Port Isolation		20 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

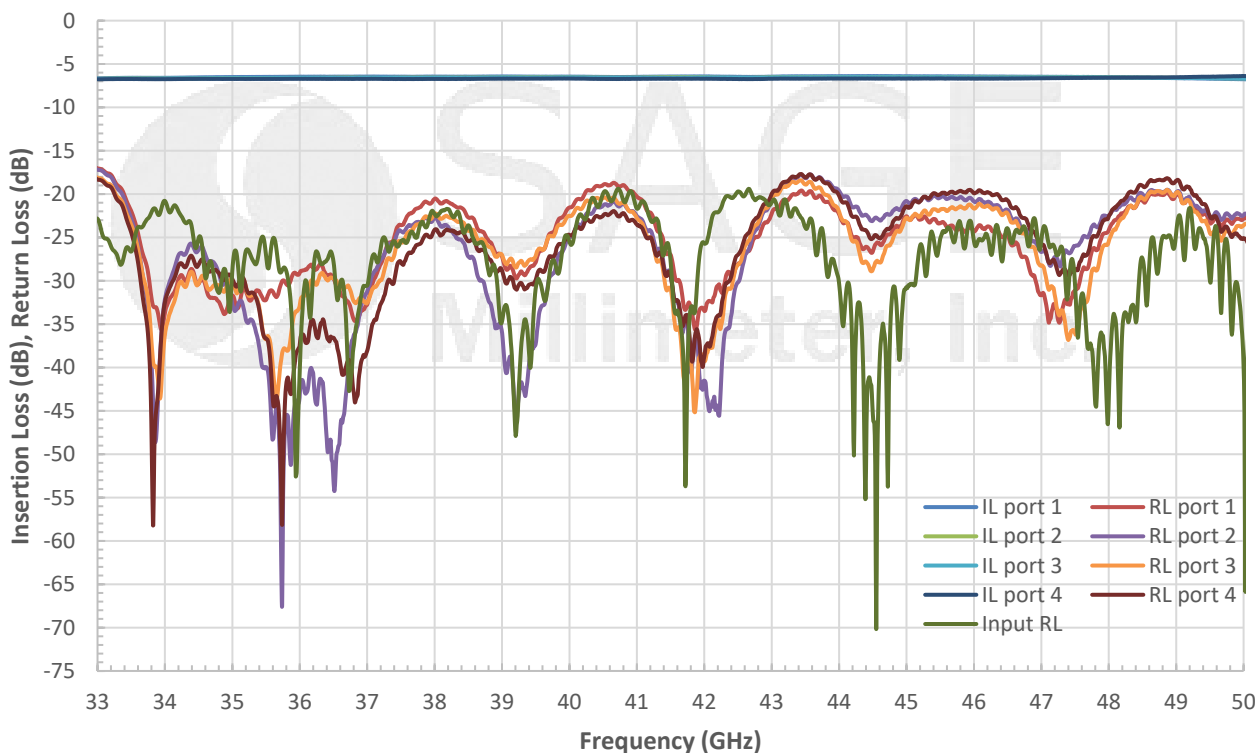
Item	Specification
Input Port	WR-22 Waveguide with UG-599/U-M Flange
Output Ports	WR-22 Waveguide with UG-599/U-M Flange
Material	Aluminum
Finish	Gold Plated
Weight	8.3 Oz
Size	1.70" (L) X 5.50" (W) X 1.13" (H)
Outline	WP-Q4-SC



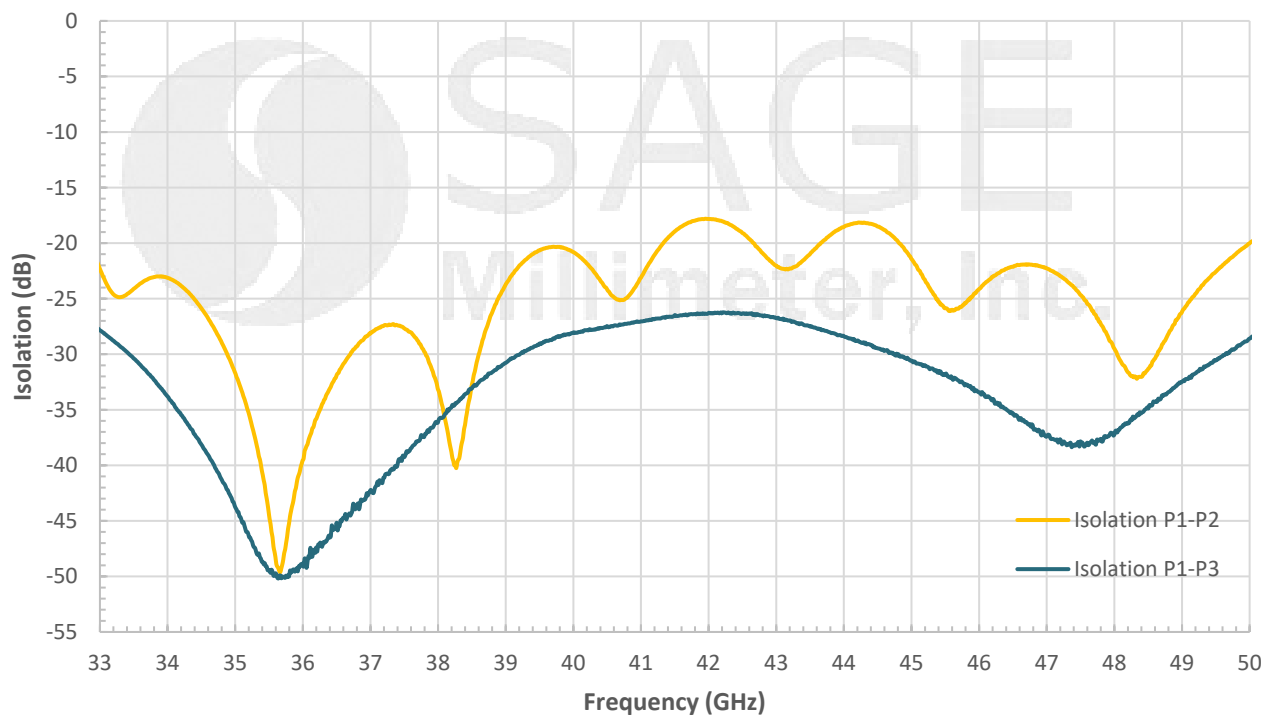


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Measured Insertion Loss and Return Loss Vs Frequency

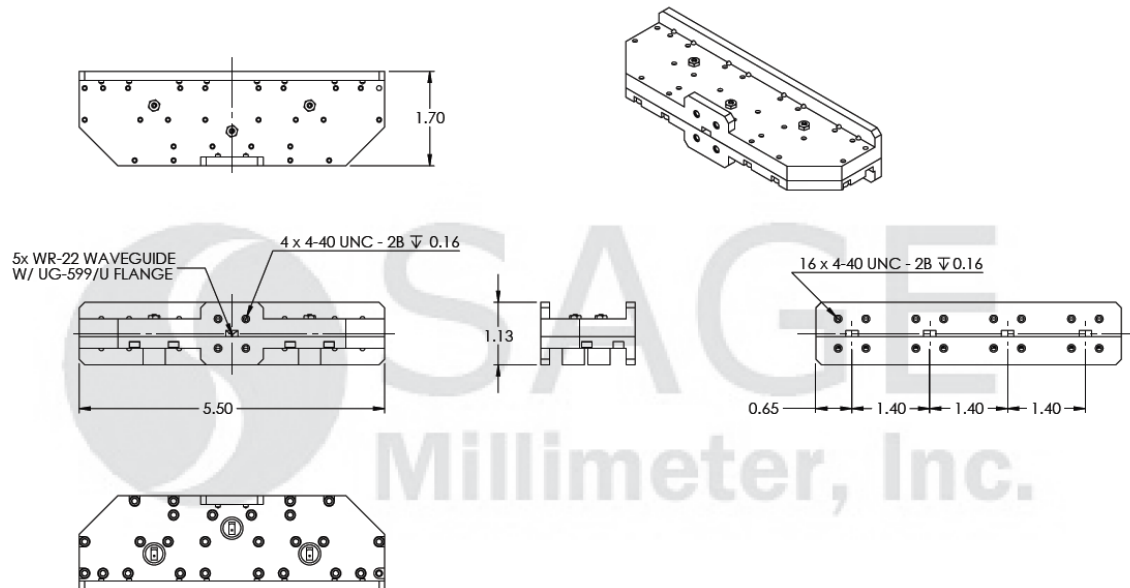


Measured Isolation Vs Frequency



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



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.