

Q-Band Coaxial Power Divider, 4-Way, 45.5 to 47 GHz

Description:

Model SWP-46347304-2F2F-E1-S is a Q band, 4-way in-line power divider that operates across the frequency range of 45.5 to 47 GHz. The power divider offers a maximum insertion loss of 2.0 dB at each output port and a typical isolation of 20 dB. The ports are well balanced and in phase for either power dividing or power combining applications across the operating frequency. This model offers an end launch design with female 2.4 mm coax connectors. Other configurations are also available under different model numbers. The product is designed and fabricated for commercial airplane applications.



Features:

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

Applications:

- Test Labs
- Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	45.5 GHz		47.0 GHz
Insertion Loss		1.8 dB	2.0 dB
Port Isolation		20 dB	
Input/ Output Return Loss		15 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

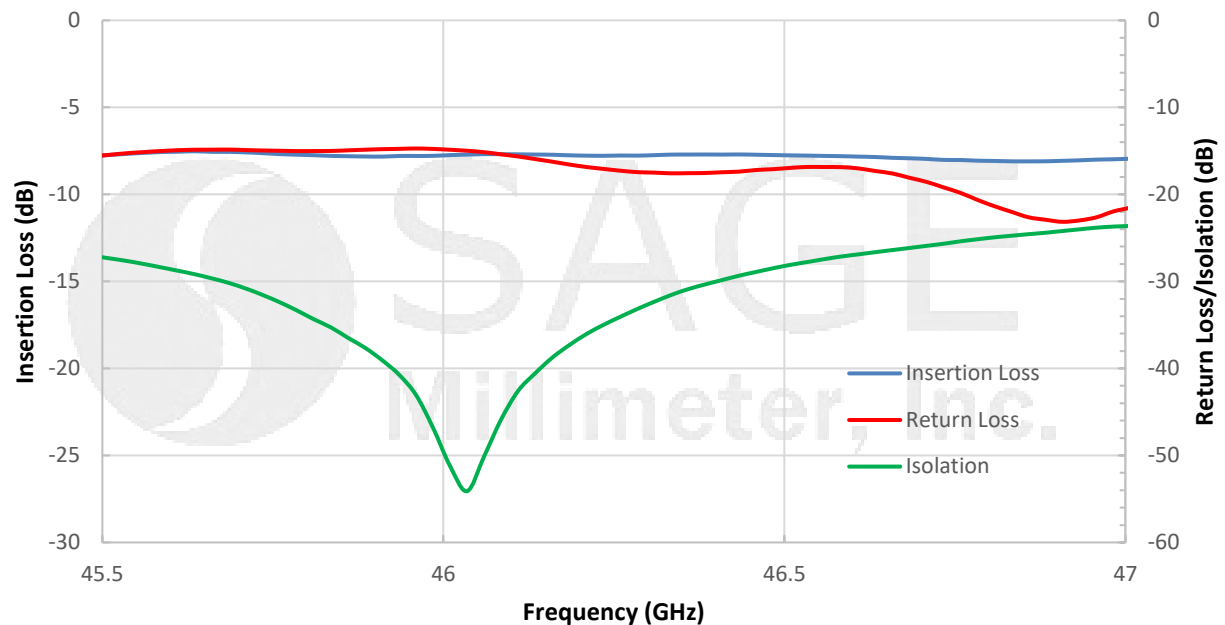
Mechanical Specifications:

Item	Specification
Input Port	2.4 mm (F)
Output Ports	2.4 mm (F)
Case Material	Aluminum
Finish	Gold Plated
Weight	5.2 Oz
Size	1.82" (L) x 2.75" (W) x 1.13" (H)
Outline	WP-Q4-C4

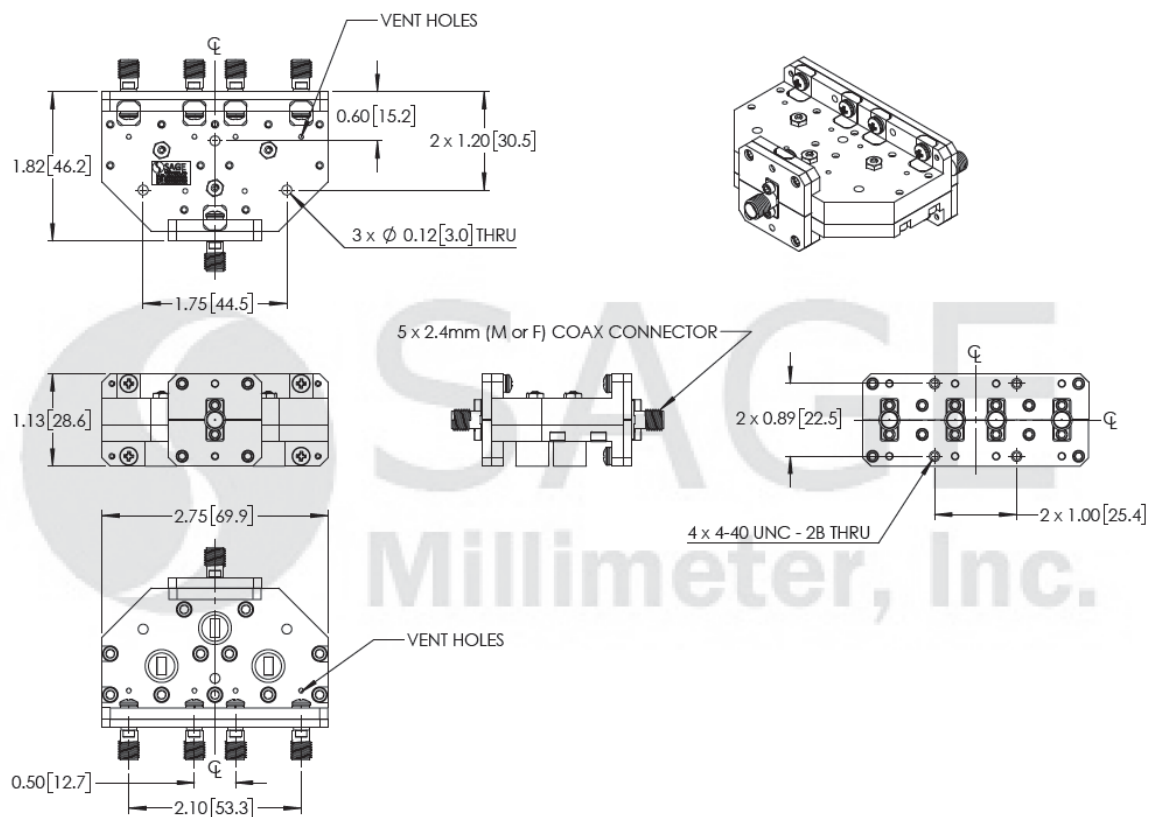


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Typical Performance vs. Frequency



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



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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:

- Proper torque, 8.0 ± 0.15 inch-pounds (0.92 ± 0.05 Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**

