

U-Band Waveguide Power Divider, 2 Way, 43 to 47 GHz

Description:

Model SWP-43347302-19-S1 is a U band, 2-way power divider with a typical insertion loss of 0.3 dB across the frequency range of 43 to 47 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-19 waveguides and UG-383/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 | 43 GHz | | 47 GHz |
| Insertion Loss | | 0.3 dB | 0.5 dB |
| Isolation | | 20 dB | |
| Return Loss | | 17 dB | |
| Power Handling | | | 50 W (CW) |
| Specification Temperature | | +25 °C | |
| Operating Temperature | -40 °C | | +85 °C |

Mechanical Specifications:

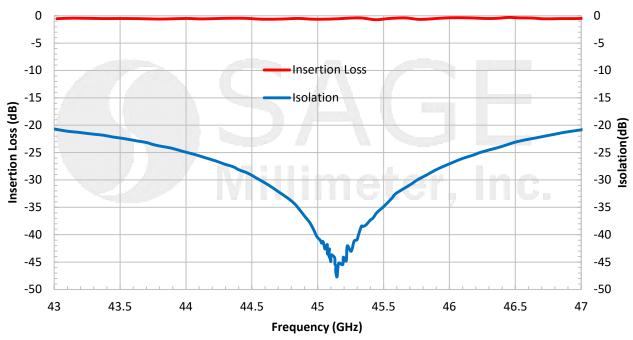
| Item | Specification |
|-------------|--|
| Input Port | WR-19 Waveguide with UG-383/U-M Flange |
| Output Port | WR-19 Waveguide with UG-383/U-M Flange |
| Material | Aluminum |
| Finish | Gold Plated |
| Weight | 3.7 Oz |
| Size | 1.4" (L) X 1.4" (W) X 1.27" (H) |
| Outline | WP-U2 |



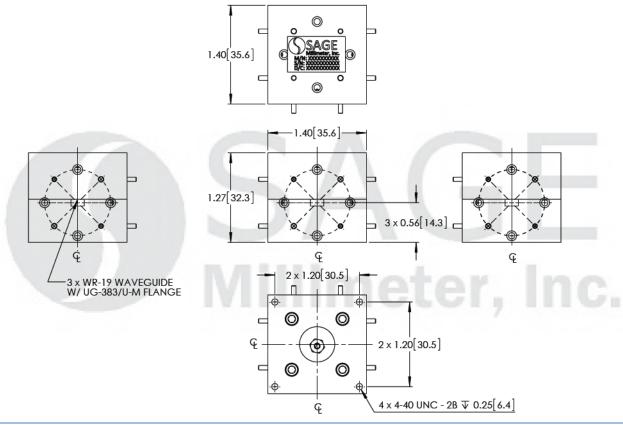
www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com

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Typical Insertion Loss and Isolation 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:

• Any foreign objects in the waveguide will degrade performance and/or damage the device.





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