



## 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





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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.

