

U-Band Waveguide Directional Coupler, 40 dB

Description:

Model SWD-4040H-19-SB is a U band, three-port waveguide directional coupler that delivers a 40 dB nominal coupling level and 35 dB minimum directivity across the full waveguide band from 40 to 60 GHz. The three-port coupler uses a traditional multi-hole and split block design to achieve a flat coupling level, high directivity, and low insertion loss. The interfaces of the coupler are WR-19 waveguides with UG-383/U-M flanges. Custom coupling levels are available under different model numbers.



Features:

- Full Band Operation
- Low Insertion Loss
- High Directivity

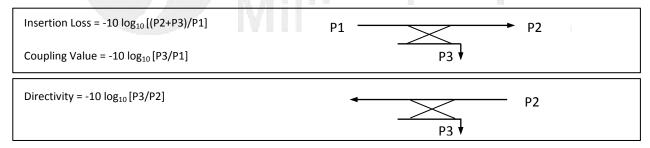
Applications:

- Test Labs
- Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	40 GHz		60 GHz
Insertion Loss*		0.7 dB	
Coupling*		40 dB	
Directivity*	35 dB		
VSWR	_ / \		1.1:1
Specification Temperature	Married A.	+25°C	
Operating Temperature	-40°C		+85°C

^{*}The definition of the insertion loss, coupling and directivity is show as following.





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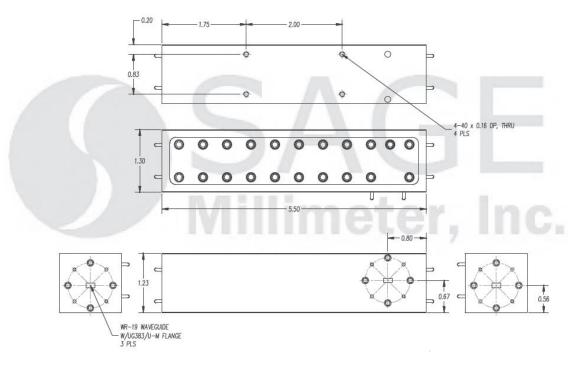


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Mechanical Specifications:

Item	Specification		
Through Ports	WR-19 Waveguide with UG-383/U-M Flange		
Coupled Port	WR-19 Waveguide with UG-383/U-M Flange		
Size	5.50" (L) X 1.30" (W) x 1.23" (H)		
Material	Brass		
Finish	Gold Plated		
Weight	1.58 Lb		
Outline	WD-SB-U		
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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches)



Note:

• 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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