

K-Band Waveguide Directional Coupler, 40 dB

Description:

Model SWD-4040H-42-SB is a K band, three-port waveguide directional coupler that delivers a 40 dB nominal coupling level and 30 dB minimum directivity across the full waveguide band from 18 to 26.5 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-42 waveguides with UG-595/U flanges. Custom coupling levels are available under different



Features:

model numbers.

- Full Band Operation
- Low Insertion Loss
- High Directivity

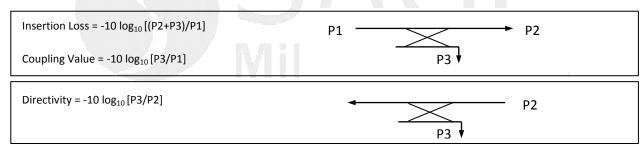
Applications:

- Test Labs
- Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	18.0 GHz		26.5 GHz
Insertion Loss*		0.5 dB	
Coupling*		40 dB	
Directivity*	30 dB		
VSWR			1.1:1
Specification Temperature		+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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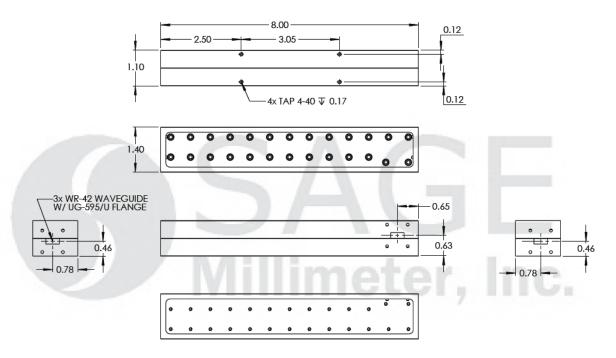


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Mechanical Specifications:

Item	Specifications		
Through Ports	WR-42 Waveguide with UG/595 Flange		
Coupled Port	WR-42 Waveguide with UG/595 Flange		
Size	8.00" (L) X 1.40" (W) x 1.10" (H)		
Material	Brass		
Finish	Gold Plated		
Weight	1.9 lb		
Outline	WD-SB-K		

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



Note:

- All data was presented using a limited sample lot. Actual data may vary unit to unit.
- The insertion loss shown includes the loss due to coupling.
- 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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