

Q-Band Waveguide Directional Coupler, 30 dB

Description:

Model SWD-3040H-22-SB is a Q band, three-port waveguide directional coupler that delivers a 30 dB nominal coupling level and 35 dB minimum directivity across the full waveguide band from 33 to 50 GHz. The three-port coupler uses a traditional multi-hole and split block design to a achieve flat coupling level, high directivity, and



low insertion loss. The interfaces of the coupler are WR-22 waveguides with UG-383/U anti-cocking flanges. Custom coupling levels are available under different model numbers.

Features:

- Full Band Operation
- Low Insertion Loss
- High Directivity

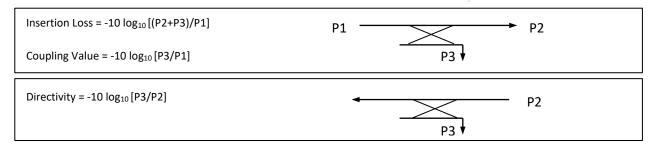
Applications:

- Test Labs
- Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	33 GHz		50 GHz
Insertion Loss*	- A	0.6 dB	
Coupling*	_ // \	30 dB	
Directivity*	35 dB		
VSWR	1 / V		1.10:1
Specification Temperature		+25°C	
Operating Temperature	-40°C	Aau L	+85°C

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



Mechanical Specifications:



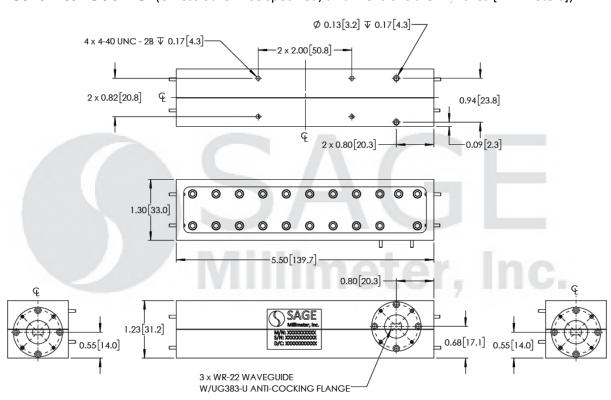
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Item	Specification	
Through Ports	WR-22 Waveguide with UG-383/U Anti-Cocking Flange	
Coupled Port	WR-22 Waveguide with UG-383/U Anti-Cocking Flange	
Size	5.50" (L) X 1.30" (W) x 1.25" (H)	
Material	Brass	
Finish	Gold Plated	
Weight	1.58 Lb	
Outline	WD-SB-Q-A	

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



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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