SWD-3040H-10-BB

W-Band Waveguide Bi-Directional Coupler, 30 dB

Description:

Model SWD-3040H-10-BB is a W band, four-port waveguide bi-directional coupler that delivers a 30 dB nominal coupling level and 30 dB minimum directivity across the full waveguide band from 75 to 110 GHz. The four-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-10 waveguides with UG-387/U-M anti-cocking flanges. Custom coupling levels are available under different model numbers.



Features:

- Full Band Operation
- Low Insertion Loss
- High Directivity

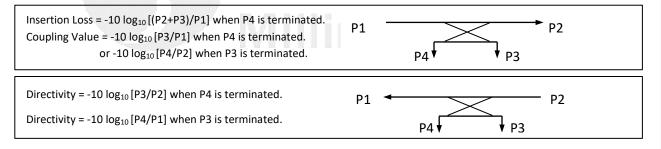
Applications:

- Test Labs
- Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	75 GHz		110 GHz
Insertion Loss*		1.0 dB	
Coupling*		30 dB	
Directivity*	30 dB	40 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.





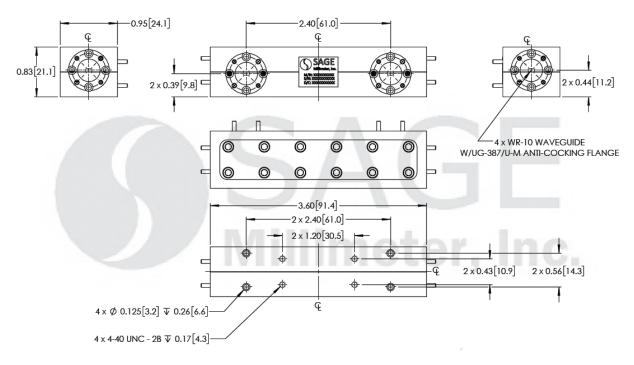
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Mechanical Specifications:

ltem	Specification	
Through Ports	WR-10 Waveguide with UG-387/U-M Anti-Cocking Flange	
Coupled Port	WR-10 Waveguide with UG-387/U-M Anti-Cocking Flange	
Size	3.60" (L) X 0.95" (W) x 0.83" (H)	
Material	Brass	
Finish	Gold Plated	
Weight	7.7 Oz	
Outline	WD-BB-W-A	
	willimeter,	

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



Note:

- 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.

RoHS

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