SWD-1040H-12-SB-WP

E-Band Waveguide Directional Coupler, 10 dB

Description:

SWD-1040H-12-SB-WP is an E band, three-port waveguide directional coupler that delivers a 10 dB nominal coupling level and 40 dB directivity across the waveguide band from 71 to 86 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-12 waveguides with UG-387/U anti-cocking flanges. Custom coupling levels are available under different model numbers.

Applications:

Features:

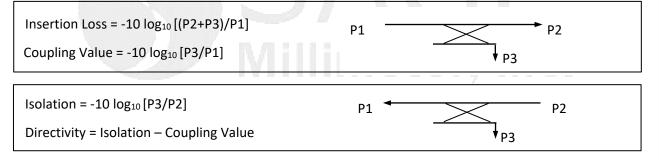
- Low Insertion Loss
- High Directivity

- Test Labs
 - Instrumentations
 - Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	71 GHz		86 GHz
Insertion Loss*		0.8 dB	
Coupling*		10 dB	
Directivity*		40 dB	
VSWR		1.08:1	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

*The definition of the insertion loss, coupling and directivity is show as following. The required termination on the waveguide port is 30 dB or better for accurate measurement.





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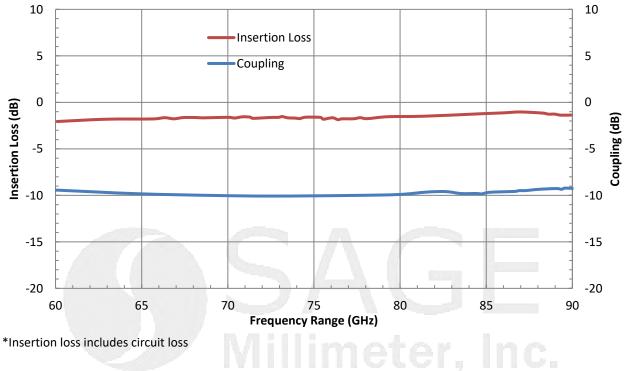
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Mechanical Specifications:

ltem	Specification	
Through Ports	WR-12 Waveguide with UG-387/U Anti-Cocking Flange	
Coupled Port	WR-12 Waveguide with UG-387/U Anti-Cocking Flange	
Size	3.60" (L) X 0.95" (W) x 0.83" (H)	
Material	Brass	
Finish	Gold Plated	
Weight	7.48 Oz	
Outline	WD-SB-E-A	

Millimeter, Inc

Typical Insertion Loss and Coupling vs. Frequency



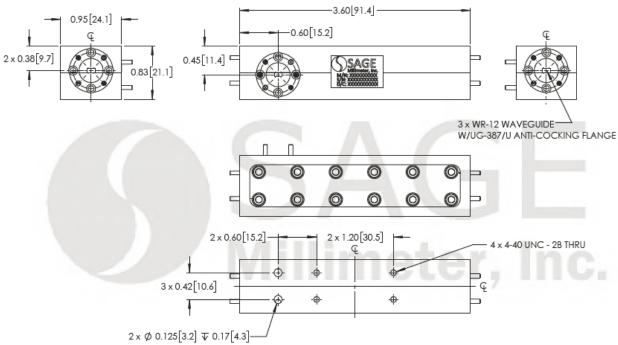


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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



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. •
- Eravant 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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