SWD-1020H-03-SB

WR-03 Waveguide Directional Coupler, 10 dB

Description:

Model SWD-1020H-03-SB is a WR-03 band, three-port waveguide directional coupler that delivers a 10 dB nominal coupling level and 20 dB typical directivity across the full waveguide band from 220 to 330 GHz. The three-port coupler uses a traditional multi-hole and split block design to achieve a flat coupling level, and low insertion loss. The interfaces of the coupler are WR-03 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

Electrical Specifications:

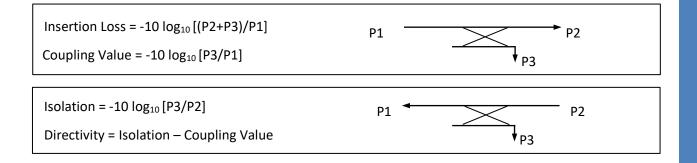


Applications:

- Test Labs
- Instrumentation
- Sub-assemblies

Parameter	Minimum	Typical	Maximum
Frequency	220 GHz		330 GHz
Insertion Loss*		3.0 dB	
Coupling*		10 dB	
Directivity*		20 dB	
Return Loss		18 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

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





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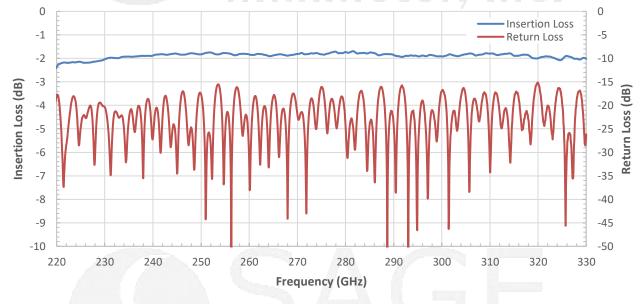
RoHS

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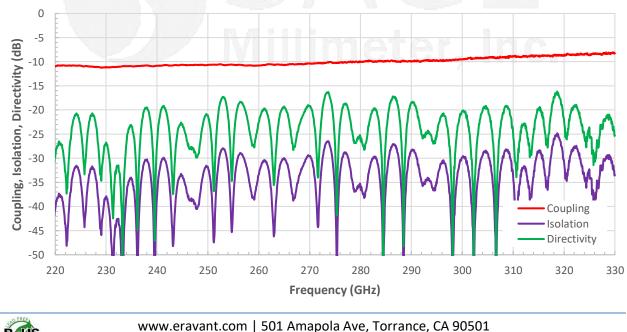
Mechanical Specifications:

Item	Specification	
RF Ports	WR-03 Waveguide with UG-387/U-M Anti-Cocking Flange	
Material	Brass	
Finish	Gold Plated	
Weight	3.5 oz.	
Outline	WD-SB-03-A	

Typical Measured Performance vs Frequency







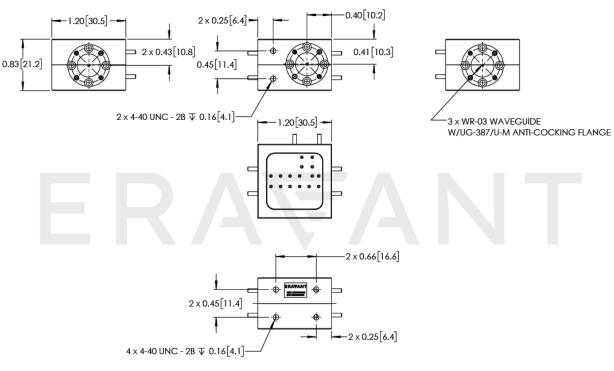
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Rev 1.1

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



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit, slightly.
- All testing was performed under +25 °C case temperature.
- 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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