

WR-04 Waveguide Directional Coupler, 20 dB

Description:

Model SWD-2020H-04-SB is WR-04, three-port waveguide directional coupler that delivers a 20 dB nominal coupling level and 20 dB typical directivity across the full waveguide band from 170 to 260 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-04 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

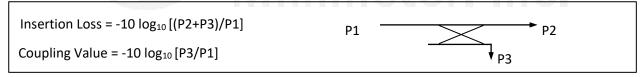
Applications:

- Test Labs
- Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	170 GHz		260 GHz
Insertion Loss*		3.0 dB	
Coupling*		20 dB	
Directivity*	, //\	20 dB	
Return Loss		18 dB	- 95
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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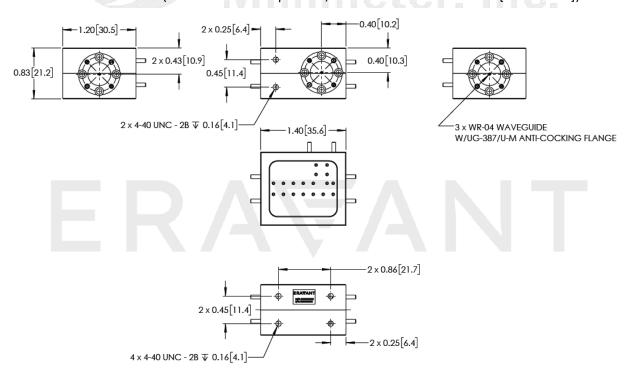


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Mechanical Specifications:

Item	Specification	
RF Ports	WR-04 Waveguide with UG-387/U-M Anti-Cocking Flange	
Material	Brass	
Finish	Gold Plated	
Weight	4.0 oz.	
Outline	WD-SB-04-A	

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



Note:

• 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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