SWD-1025H-06-DB

D-Band Waveguide Directional Coupler, 10 dB

Description:

Model SWD-1025H-06-DB is a D-band, four-port waveguide dual-directional coupler that delivers a 10 dB nominal coupling level and 25 dB typical directivity across the full waveguide band from 110 to 170 GHz. The dual-directional coupler uses a traditional multihole and split block design to achieve a flat coupling level, high directivity, and low insertion loss. The waveguide interfaces of the coupler are WR-06 waveguides with UG-387/U-M anti-cocking flanges. Other coupling levels including custom coupling levels and asymmetrical forward/reverse coupling levels are available under different model numbers.

Features:

- Full Band Operation
- Low Insertion Loss
- High Directivity

NE COMPONENTS

Applications:

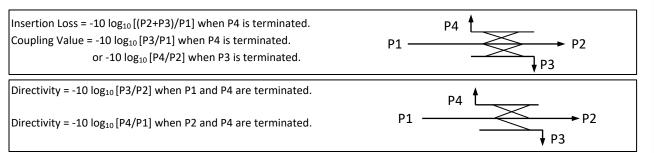
- Test Labs
- Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	110 GHz		170 GHz
Insertion Loss*		3 dB	
Coupling*		10 dB	
Directivity*		25 dB	
Return Loss		20 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

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

* The actual directivity and return loss are higher than shown due to the limitations of the network analyzer's dynamic range.





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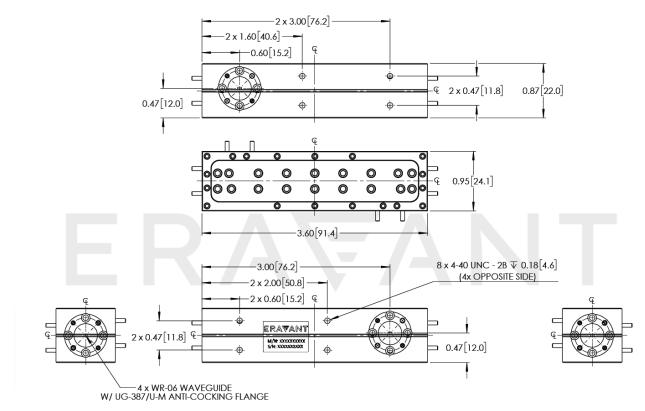
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Mechanical Specifications:

ltem	Specification		
RF Ports	WR-06 Waveguide with UG 387/U-M Anti-Cocking Flange		
Material	Brass		
Finish	Gold Plated		
Weight	8 oz.		
Outline	WD-DB-D-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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