## SWD-1020H-06-DB-C-1.8

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### WR-06 Waveguide Dual-Directional Coupler, 10 dB

SWD-1020H-06-DB-C-1.8 is a WR-06, four-port waveguide dualdirectional coupler that delivers a 10 dB nominal coupling level and 20 dB typical directivity across the full waveguide band from 110 to 170 GHz. The dual-directional coupler uses a traditional multi-hole and split block design to achieve a flat coupling level, high directivity, and low insertion loss. The waveguide interface of the coupler is 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.

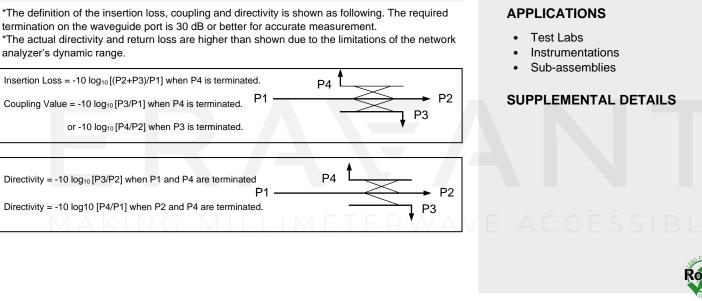
#### **Electrical Specifications:**

Parameter	Minimum	Typical	Maximum
Frequency Range	110 GHz		170 GHz
Insertion Loss*		2.0 dB	
Coupling*		10 dB	
Directivity*		20 dB	
Main Line Return Loss		20 dB	
Coupling Port Return Loss		20 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

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

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**FEATURES** 

Band

 Full Band Coverage Low Insertion Loss **High Directivity** 

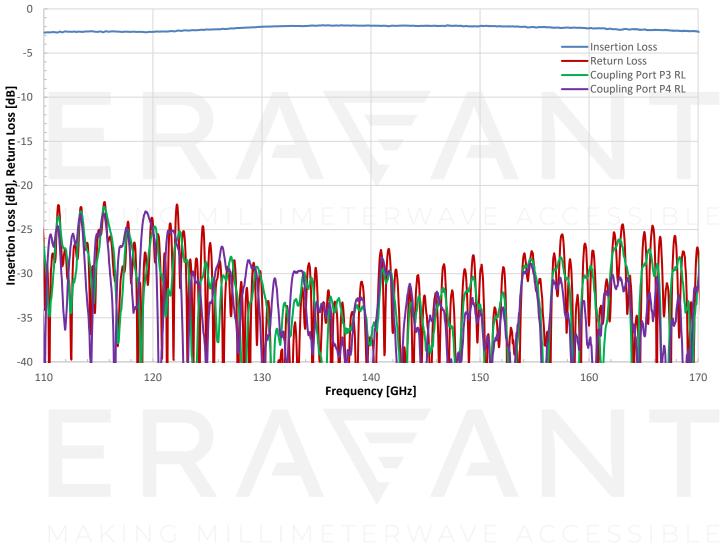
Flat Coupling Level Across the

# SWD-1020H-06-DB-C-1.8

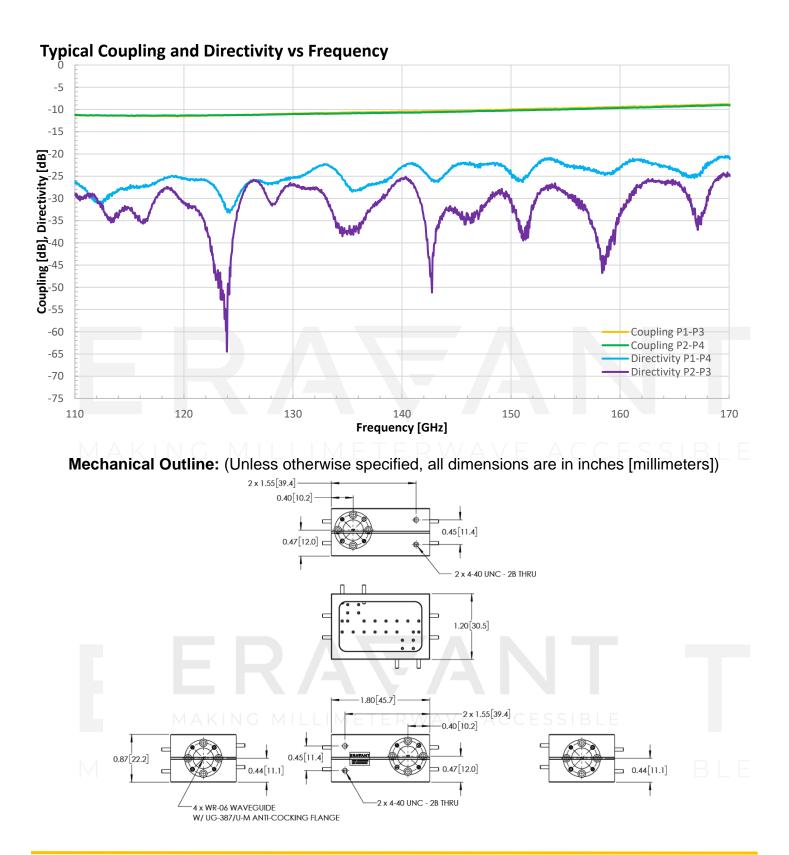
### **Mechanical Specifications:**

Item	Specification
Waveguide Ports	WR-06 Waveguide with UG-387/U-M Anti-Cocking Flange
Material	Brass
Finish	Gold Plated
Weight	4.9 Oz
Outline	WD-DB-D-A-C-1.8

## **Typical Insertion Loss and Return Loss vs Frequency**



## SWD-1020H-06-DB-C-1.8



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#### NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.

#### CAUTION:

• If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.

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