

D-Band Waveguide Bi-Directional Coupler, 6 dB

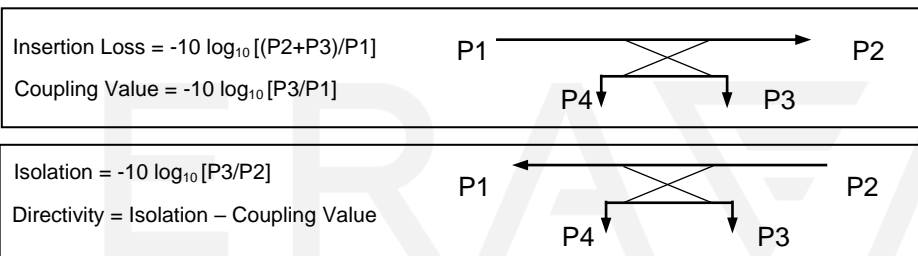
SWD-0640H-06-BB is a D band, four-port waveguide bi-directional coupler that delivers a 6 dB nominal coupling level and 40 dB nominal directivity across the full waveguide band from 110 to 170 GHz. The three-port coupler uses a traditional multi-hole and split block design to achieve a flat coupling level, high directivity, and low insertion loss. The interfaces of the coupler are WR-06 waveguides with UG-387/UM anti-cocking flanges. Custom coupling levels are available under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	110 GHz		170 GHz
Insertion Loss*		3 dB	
Coupling*		6 dB	
Directivity*		40 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.



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FEATURES

- Full Band Coverage
- Low Insertion Loss
- High Directivity

APPLICATIONS

- Test Labs
- Instrumentation
- Sub-assemblies

SUPPLEMENTAL DETAILS

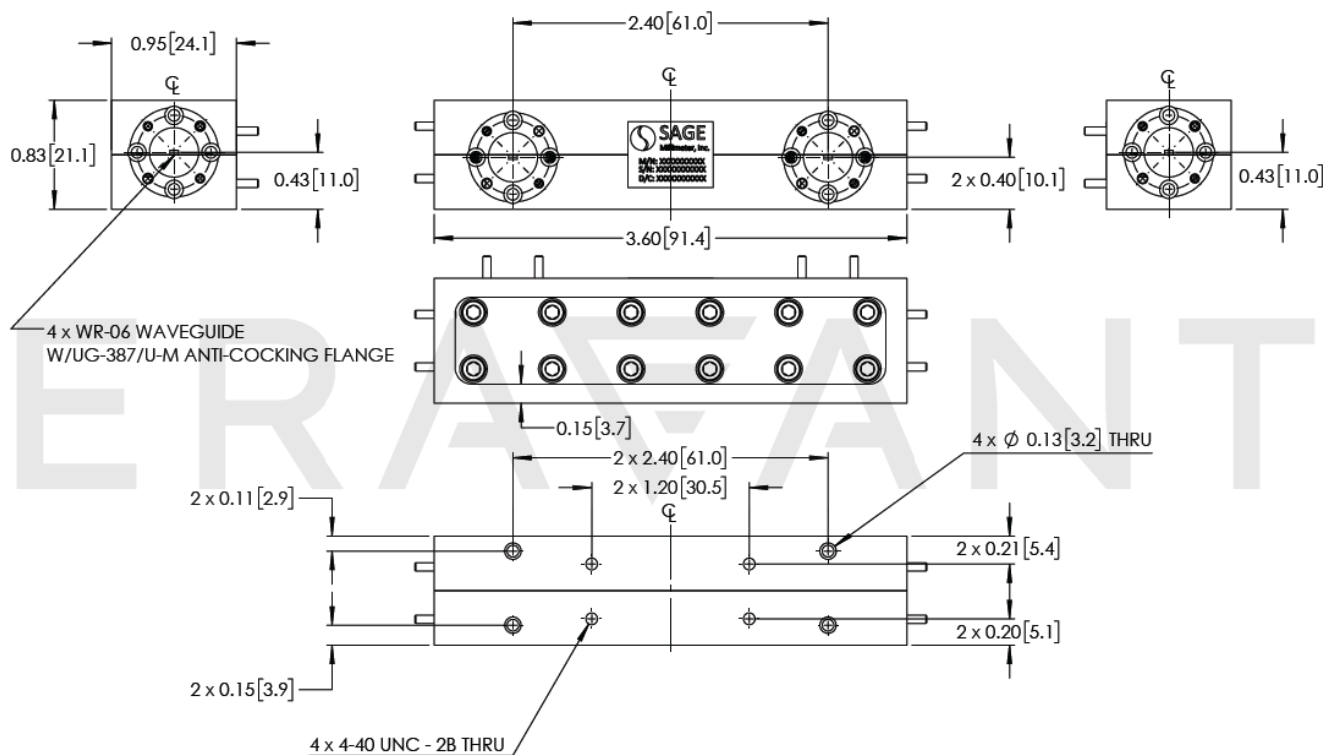


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Mechanical Specifications:

Item	Specification
Through Ports	WR-06 Waveguide with UG-387/U-M Anti-Cocking Flange
Coupled Ports	WR-06 Waveguide with UG-387/U-M Anti-Cocking Flange
Material	Brass
Finish	Gold Plated
Weight	7.7 Oz
Outline	WD-BB-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:

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