

F-Band Waveguide Bi-Directional Coupler, 20 dB

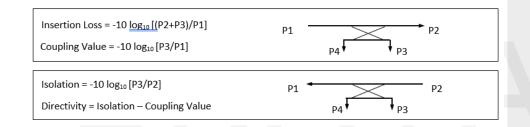
SWD-2030H-08-BB is a F band, four-port waveguide bi-directional coupler that delivers a 20 dB nominal coupling level and 30 dB nominal directivity across the full waveguide band from 90 to 140 GHz. The four-port coupler uses a traditional multi-hole and split block design to achieve a flat coupling level, high directivity, and low insertion loss. The interfaces of the coupler are WR-08 waveguides with UG-387/U-M anti-cocking flanges. Custom coupling levels are available under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	90 GHz		140 GHz
Insertion Loss*		2.5 dB	
Coupling*		20 dB	
Directivity*		30 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 follows. The required termination on the waveguide port is 30 dB or better for accurate measurement.



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FEATURES

- Full Band Operation
- Low Insertion Loss
- · High Directivity

APPLICATIONS

- Test Lab
- Instrumentations
- Sub-assemblies

SUPPLEMENTAL DETAILS

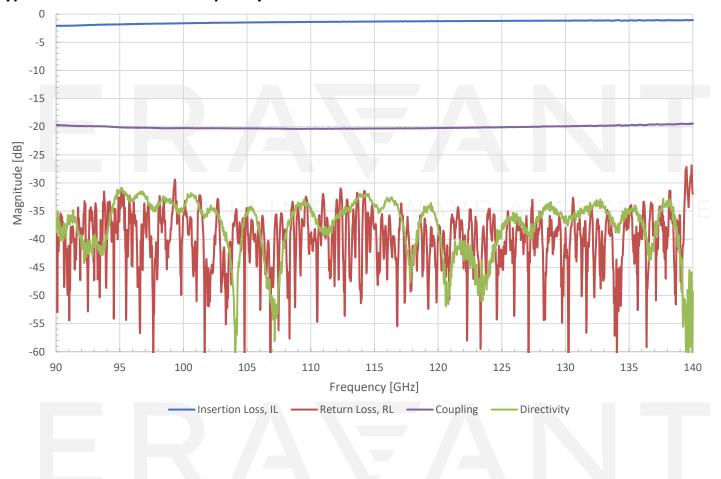




Mechanical Specifications:

Item	Specification	
RF Ports	WR-08 Waveguide with UG-387/U-M Anti-Cocking Flange	
Material	Brass	
Finish	Gold Plated	
Weight	0.5 lbs.	
Outline	WD-BB-F-A	

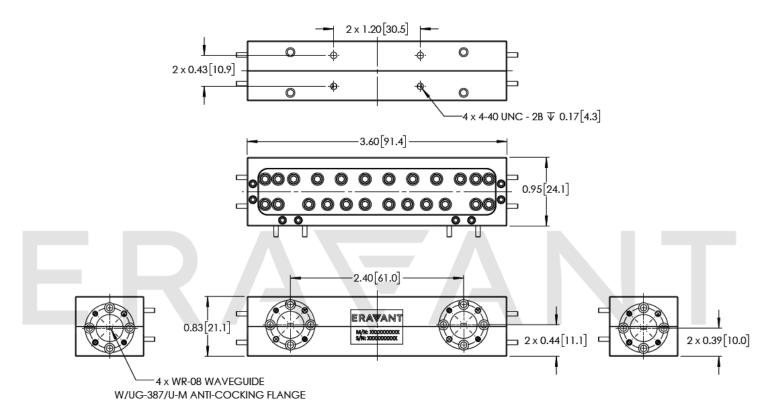
Typical Performance Vs. Frequency



MAKING MILLIMETERWAVE ACCESSIBLE



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 antenna will cause performance degradation and possible device damage.

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