SWD-4030H-08-BB

F-Band Waveguide Bi-Directional Coupler, 40 dB

Description:

Model SWD-4030H-08-BB is a F band, four-port waveguide bi-directional coupler that delivers a 40 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.

Features:

- Full Band Operation
- Low Insertion Loss
- High Directivity

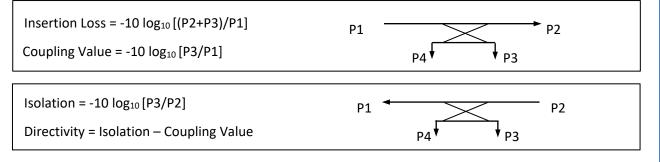
Applications:

- Test Labs
- Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	90 GHz		140 GHz
Insertion Loss*		2.5 dB	
Coupling*	VIIII internet	40 dB	10.0
Directivity*	VIIIIIE	30 dB	IIG.
Return Loss		20 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

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





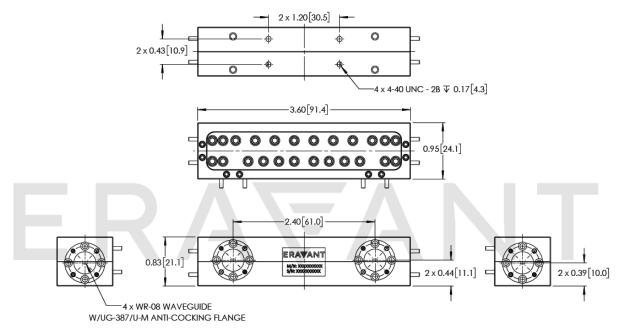
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Mechanical Specifications:

Item	Specification	
Waveguide Ports	WR-08 Waveguide with UG-387/U-M Anti-Cocking Flange	
Material	Brass	
Finish	Gold Plated	
Weight	7.7 Oz	
Outline	WD-BB-F-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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