SWD-1730H-08-SB-WP

Final Rev 1.1

F-Band Waveguide Directional Coupler, 17 dB

Description:

Model SWD-1730H-08-SB-WP is an F band, threeport waveguide directional coupler that delivers a 17 dB nominal coupling level and 25 dB minimum directivity across the full waveguide band from 90 to 140 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-08 waveguides with UG-387/U-M flanges. Custom coupling levels are available under different model numbers.



Features:

• Full Band Operation

Electrical Specifications:

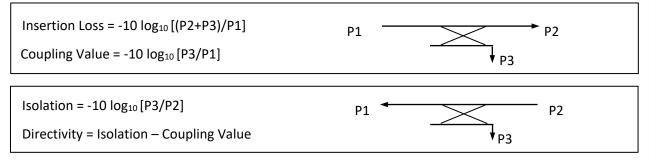
- Low Insertion Loss
- High Directivity

Applications:

- Test Labs
- Instrumentation
- Sub-assemblies

Parameter	Minimum	Typical	Maximum
Frequency	90 GHz		140 GHz
Insertion Loss*		2.5 dB	
Coupling*		17 dB	
Directivity*	25 dB		
VSWR		1.2:1	
Specification Temperature		+25°C	
Operating Temperature	-40°C	dana I	+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.



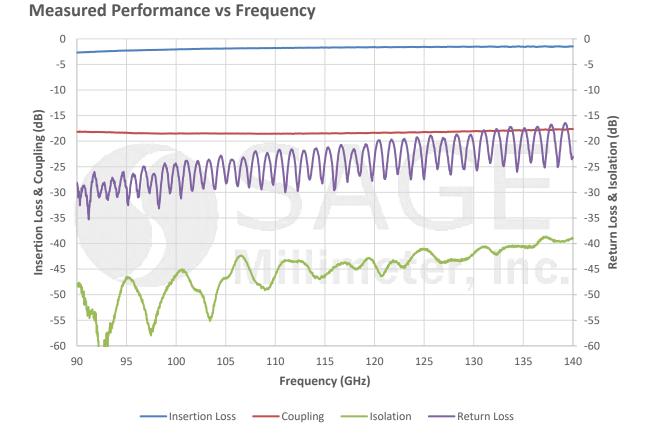


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Mechanical Specifications:

ltem	Specification		
Through Ports	WR-08 Waveguide with UG-387/U-M Flange		
Coupled Port	WR-08 Waveguide with UG-387/U-M Flange		
Size	3.60" (L) X 0.95" (W) x 0.83" (H)		
Material	Brass		
Finish	Gold Plated		
Weight	7.7 Oz		
Outline	WD-SB-F WIII Incomotion Inco		





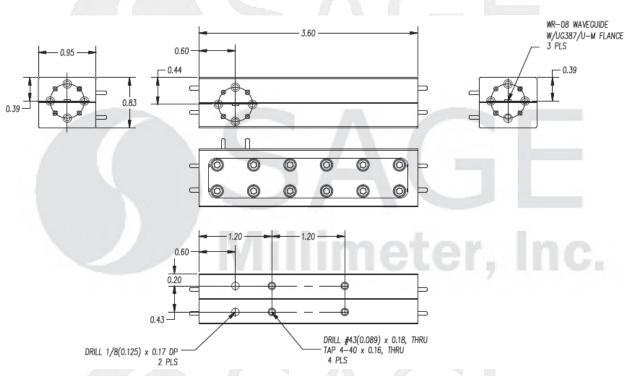
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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches)

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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