SWD-1040H-22-BB-WPC

Description:

Model SWD-1040H-22-BB-WPC is a Q band, four-port waveguide bi-directional coupler that delivers a 10 dB nominal coupling level and 35 dB Typical directivity across the full waveguide band from 33 to 50 GHz. The four-port coupler uses a traditional multi-hole and split block design to a achieve flat coupling level, high directivity, and low insertion loss. The interfaces of the coupler are WR-22 waveguides with UG-383/U flanges. Custom coupling levels are available under different model numbers.



Features:

- Full Band Operation
- Low Insertion Loss
- High Directivity

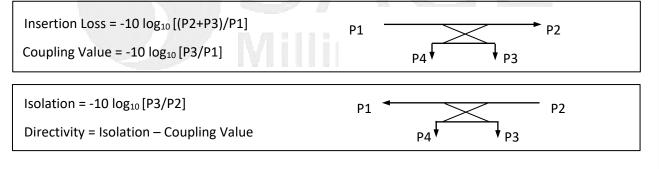
Applications:

- Test Labs
- Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	33 GHz		50 GHz
Insertion Loss*		0.6 dB	
Coupling*		10 dB	
Directivity*		35 dB	
Return Loss		26 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.



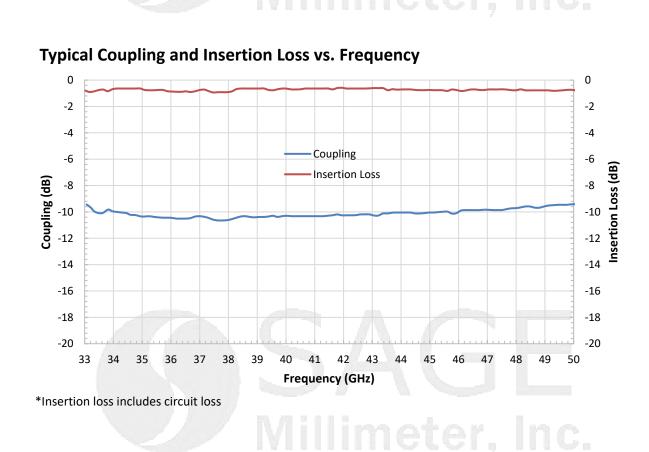


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Q-Band Waveguide Bi-Directional Coupler, 10 dB

Mechanical Specifications:

ltem	Specification	
Through Ports	WR-22 Waveguide with UG-383/U Flange	
Coupled Port	WR-22 Waveguide with UG-383/U Flange	
Size	5.50" (L) X 1.30" (W) x 1.25" (H)	
Material	Brass	
Finish	Gold Plated	
Weight	1.58 lbs.	
Outline	WD-BB-Q	



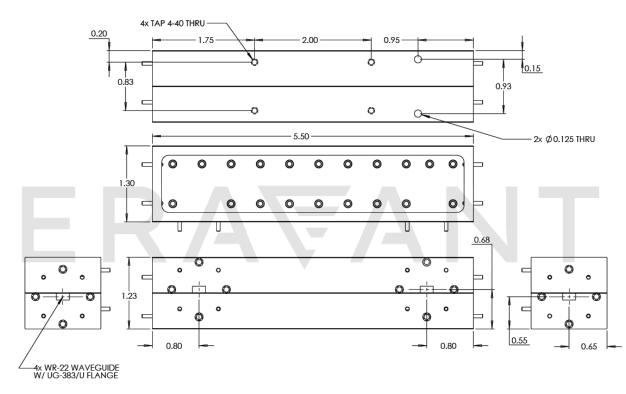


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Q-Band Waveguide Bi-Directional Coupler, 10 dB

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



Note:

- All data was presented using a limited sample lot. Actual data may vary unit to unit.
- The insertion loss shown includes the loss due to coupling.
- 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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