

WR-34 Waveguide Bi-Directional Coupler, 20 dB

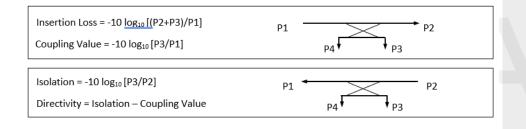
SWD-2040H-34-BB is a WR-34, four-port waveguide bi-directional coupler that delivers a 20 dB nominal coupling level and 40 dB nominal directivity across the full waveguide band from 22 to 33 GHz. The four-port coupler uses a traditional multi-hole and split block design to achieve a flat coupling level, high directivity, and low insertion loss. The interfaces of the coupler are WR-34 waveguides with UG-1530/U-M compatible flanges. Custom coupling levels are available under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	22 GHz		33 GHz
Insertion Loss		0.5 dB	
Coupling		20 dB	
Directivity		40 dB —	
Return Loss		25 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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FEATURES

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

APPLICATIONS

- Test Lab
- Instrumentations
- Sub-assemblies

SUPPLEMENTAL DETAILS

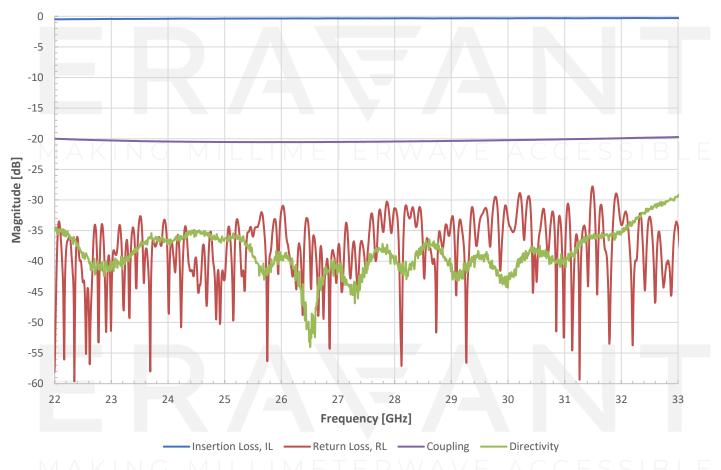




Mechanical Specifications:

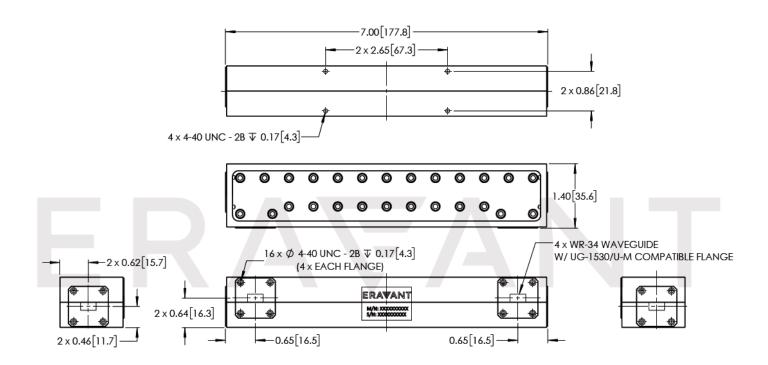
Item	Specification
Waveguide Ports	WR-34 Waveguide with UG-1530/U-M Compatible Flange
Material	Brass
Finish	Gold Plated
Weight	1.7 lbs
Outline	WD-BB-3-A

Typical Performance Vs. Frequency





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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MAKING MILLIMETERWAVE ACCESSIBLE