### SWD-2040H-42-BB

#### K-Band Waveguide Bi-Directional Coupler, 20 dB

**SWD-2040H-42-BB** is a K-Band, 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 18 to 26.5 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-42 waveguides with UG-595/U-M compatible flanges. Custom coupling levels are available under different model numbers..

#### Electrical Specifications:

Parameter	Minimum	Typical	Maximum	
Frequency Range	18 GHz		26.5 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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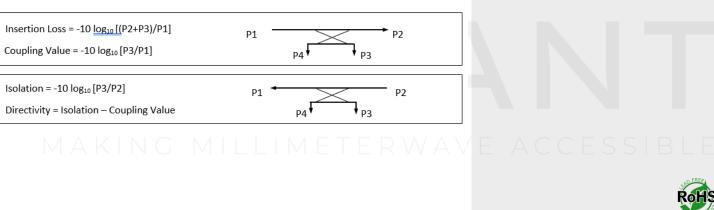
#### FEATURES

- Full Band Operation
- Low Insertion Loss
- High Directivity

#### **APPLICATIONS**

- Test Lab
- Instrumentations
- Sub-assemblies

#### SUPPLEMENTAL DETAILS

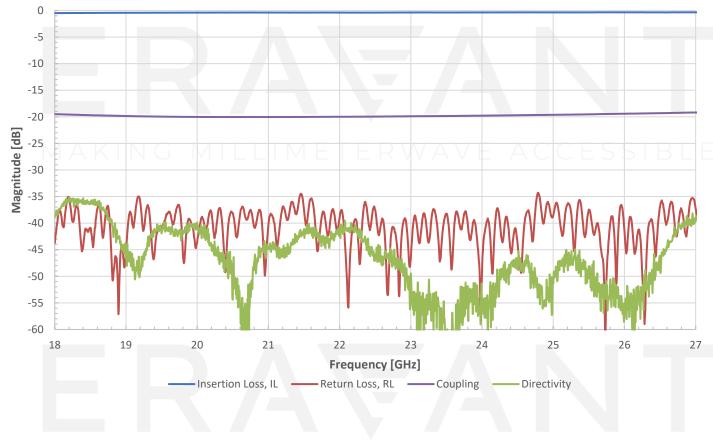




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#### Mechanical Specifications:

Item	Specification
Waveguide Ports	WR-42 Waveguide with UG-595/U-M Compatible Flange
Material	Brass
Finish	Gold Plated
Weight	1.9 lbs
Outline	WD-BB-K-A



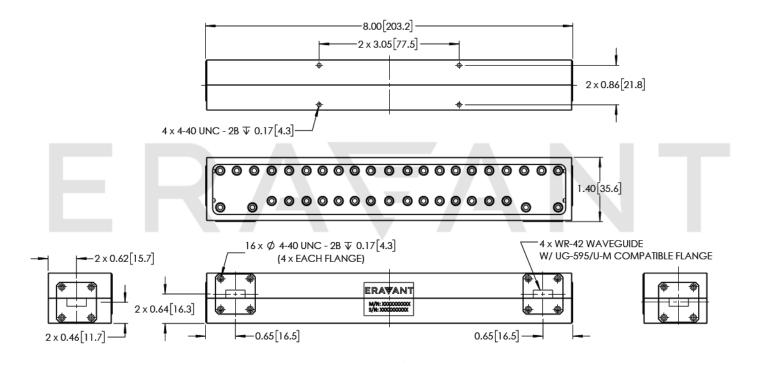
#### **Typical Performance Vs. Frequency**

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#### 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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