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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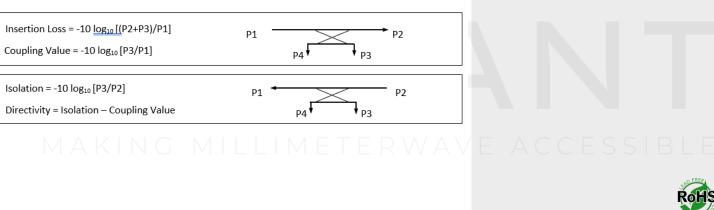
FEATURES

- Full Band Operation
- Low Insertion Loss
- High Directivity

APPLICATIONS

- Test Lab
- Instrumentations
- Sub-assemblies

SUPPLEMENTAL DETAILS

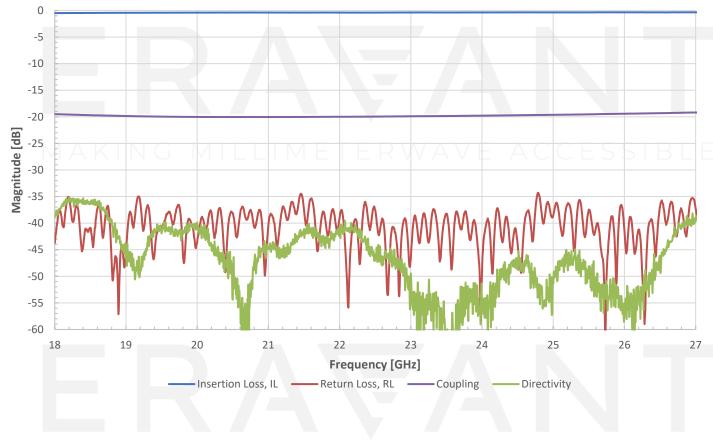




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Mechanical Specifications:

| 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 |



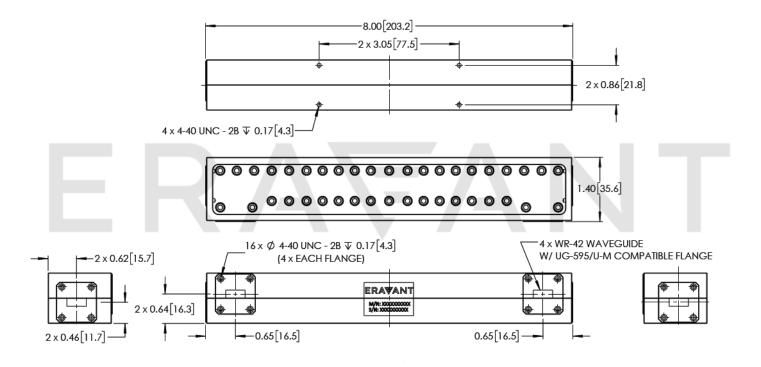
Typical Performance Vs. Frequency

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SWD-2040H-42-BB

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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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