

# WR-34 Waveguide Bi-Directional Coupler, 10 dB

#### **Description:**

Model SWD-1040H-34-BB is a WR-34, four-port waveguide bi-directional coupler that delivers a 10 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 compatible flanges. Custom coupling levels are available under different model numbers.

#### **Features:**

- Full Band Operation
- Low Insertion Loss
- High Directivity

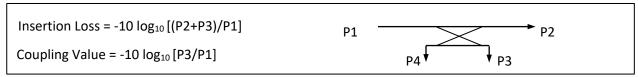
## **Applications:**

- Test Labs
- Instrumentation
- Sub-assemblies

## **Electrical Specifications:**

Parameter	Minimum	Typical	Maximum
Frequency	22 GHz		33 GHz
Insertion Loss*		0.5 dB	4
Coupling*		10 dB	
Directivity*	illina c	40 dB	0.0
Return Loss		25 dB	IU.
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

<sup>\*</sup>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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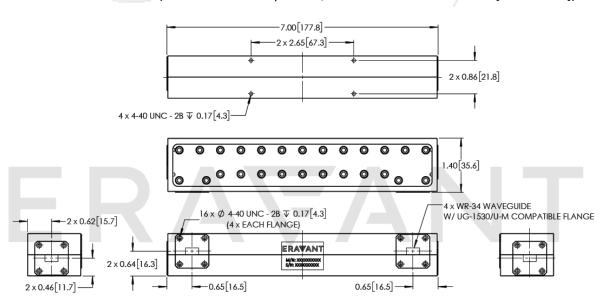


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## **Mechanical Specifications:**

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

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 waveguide will degrade performance and/or damage the device.



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