

# WR-34 Waveguide Directional Coupler, 30 dB

## **Description:**

Model SWD-3040H-34-SB is a WR-34, three-port waveguide directional coupler that delivers a 30 dB nominal coupling level and 40 dB typical directivity across the full waveguide band from 22 to 33 GHz. The three-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 flanges. Custom coupling levels are available under different model numbers.

#### **Features:**

- Full Band Operation
- Low Insertion Loss
- High Directivity

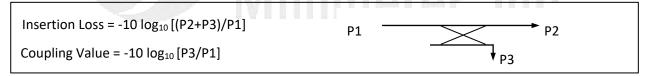
## **Applications:**

- Test Labs
- Instrumentation
- Sub-assemblies

## **Electrical Specifications:**

Parameter	Minimum	Typical	Maximum
Frequency	22 GHz		33 GHz
Insertion Loss*		0.5 dB	
Coupling*		30 dB	
Directivity*		40 dB	
Return Loss	// \	25 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

<sup>\*</sup>The definition of insertion loss, coupling and directivity is show below. The required termination on the waveguide port is 30 dB or better for accurate measurement.







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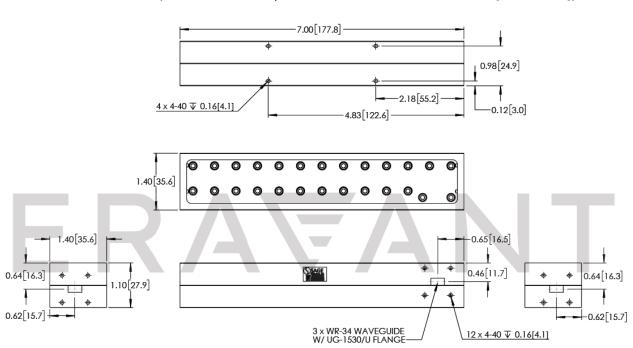


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## **Mechanical Specifications:**

Specification		
WR-34 Waveguide with UG-1530/U Flange		
WR-34 Waveguide with UG-1530/U Flange		
7.00" (L) X 1.40" (W) x 1.10" (H)		
Brass		
Gold Plated		
1.7 lbs.		
WD-SB-3		

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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