# SWD-4040H-34-BB

# WR-34 Waveguide Bi-Directional Coupler, 40 dB

### **Description:**

**Model SWD-4040H-34-BB** is a WR-34, four-port waveguide bi-directional coupler that delivers a 40 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

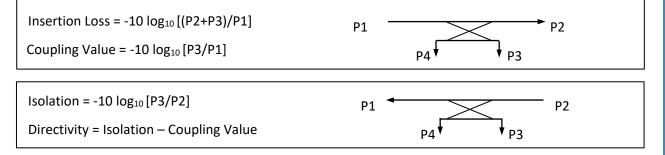
## **Applications:**

- Test Labs
- Instrumentation
- Sub-assemblies

## **Electrical Specifications:**

Parameter	Minimum	Typical	Maximum
Frequency	22 GHz		33 GHz
Insertion Loss*		0.5 dB	1.1
Coupling*		40 dB	
Directivity*	illino o	40 dB	20
Return Loss		25 dB	16.
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.





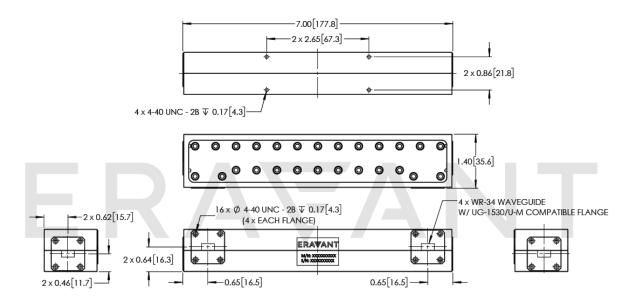
www.eravant.com | 501 Amapola Ave, Torrance, CA 90501 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: support@eravant.com SWD-4040H-34-BB

# WR-34 Waveguide Bi-Directional Coupler, 40 dB

# 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.

