

## W Band Waveguide Junction Circulator, 92 to 98 GHz

### 0Description:

**Model SNW-9239831018-10-C1** is a W band waveguide junction circulator that covers the frequency range of 92 to 98 GHz. The waveguide junction circulator is designed and manufactured to provide a low insertion loss of 1 dB nominal, a typical isolation of 18 dB, and a much shorter insertion length for system integration. The RF ports are WR-10 waveguides with UG-387/U-M flanges. The higher port isolation version is offered under the model number of **SNW-9239831535-10-CM**, with port isolation up to 35 dB.



### Features:

- Low Insertion Loss
- Moderate Isolation
- Compact Configuration

### Applications:

- Radar Systems
- Communication Systems
- Port Isolation
- Module Integration

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	93 GHz		95 GHz
Insertion Loss		1.0 dB	
Isolation	14 dB	18 dB	
Return Loss		15 dB	
Forward Power Handling		2 W (CW)	3 W (CW)
Reverse Power Handling			3 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

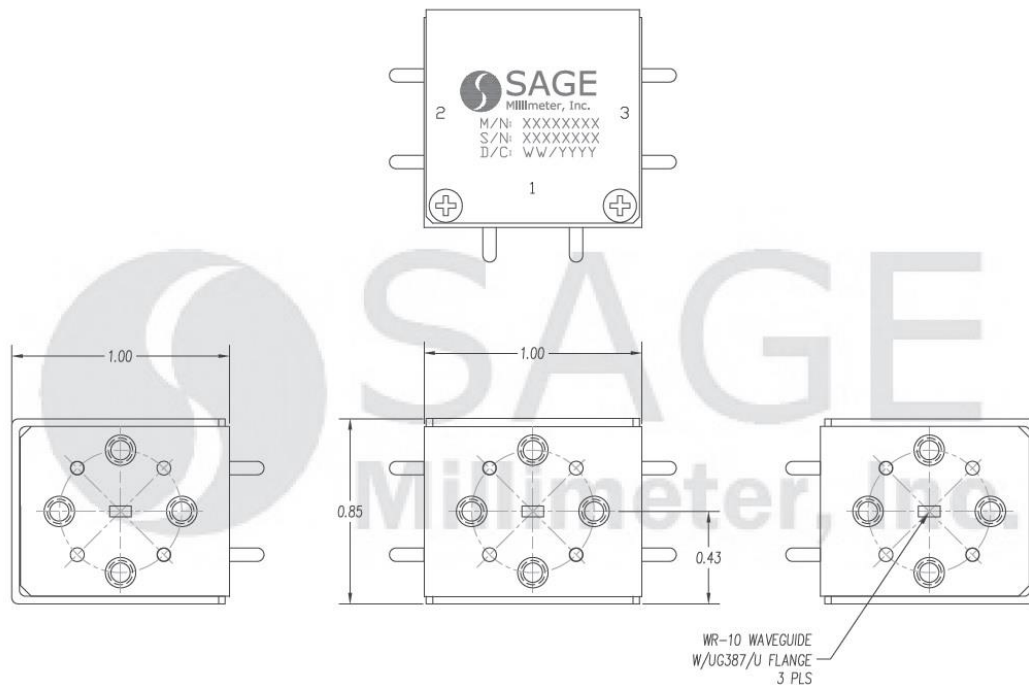
### Mechanical Specifications:

Item	Specification
RF Ports	WR-10 Waveguide with UG-387/U-M Flange
Body Material	Aluminum
Body Finish	Gold Plated
Cover Finish	Black Anodized
Weight	0.8 Oz
Size	1" (L) X 1" (W) X 0.85" (H)
Outline	NW-CW



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**Mechanical Outline:** (Unless otherwise specified, all dimensions are in inches)



**Note:**

- Eravant reserves the right to change the information presented without notice.

**Caution:**

- Exceeding absolute maximum ratings will damage the device.
- This device is magnetic sensitive. Keep the device at least 6" away from magnetic fields.
- Any foreign objects in the waveguide will degrade the performance and/or damage the device.