

## WR-06 to Circular Waveguide Mode Transition, 0.059" Diameter

### Description:

**Model SWT-06059-SB** is a WR-06 to 0.059" diameter circular waveguide mode transition. The mode transition is manufactured by either EDM machining or electro-forming techniques to ensure high accuracy and a quality surface finish. The transition only induces a fraction of a dB insertion loss and offers a VSWR of 1.10:1 or better. The nominal operating frequency is 140 to 170 GHz. The dominate mode frequency range can be extended to cover 125 to 170 GHz if the higher order waveguide mode is not excited.



### Features:

- Rugged Waveguide Configuration
- Low Insertion Loss
- Instrumentation Grade

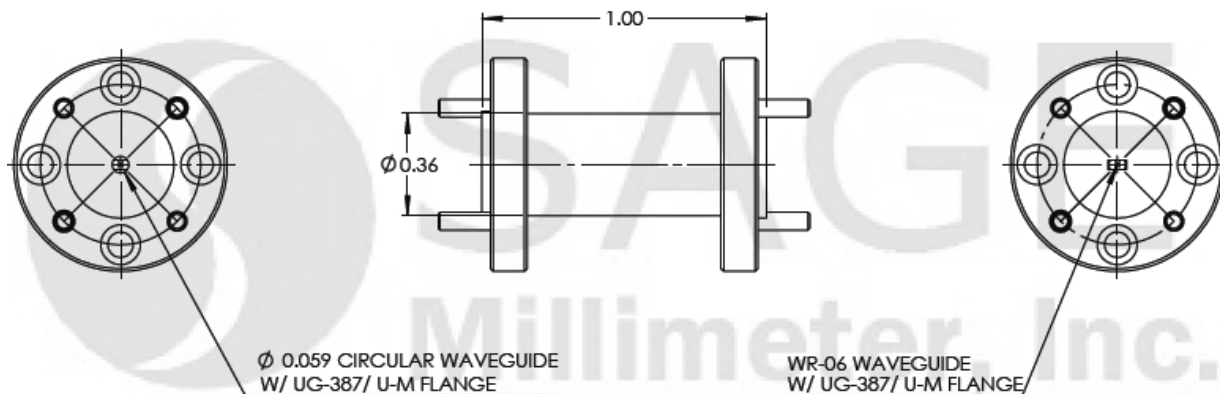
### Applications:

- Test Labs
- Test Instrumentation
- Sub-assemblies

### Mechanical Specifications:

| Item             | Specification   |
|------------------|---|
| Waveguide Size   | WR-06 Waveguide with UG-387/U-M Flange                    |
| Waveguide Size   | 0.059" Diameter Circular Waveguide with UG-387/U-M Flange |
| Material         | Brass   |
| Finish           | Gold Plated   |
| Weight           | 0.8 Oz  |
| Insertion Length | 1.0"  |
| Outline          | WT-FC-059   |

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



### Note:

- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.
- Other mechanical configurations are available under different model numbers.

