



## WR-08 to Circular Waveguide Mode Transition, 0.082” Diameter

### Description:

**Model SWT-08082-SB** is a WR-08 to 0.082” 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 return loss of 32 dB or better. The nominal operating frequency is 100 to 112 GHz. The dominate mode frequency range can be extended to cover 90 to 140 GHz if the higher order waveguide mode is not excited.



### Features:

- Rugged Waveguide Configuration
- Low Insertion Loss
- Instrumentation Grade

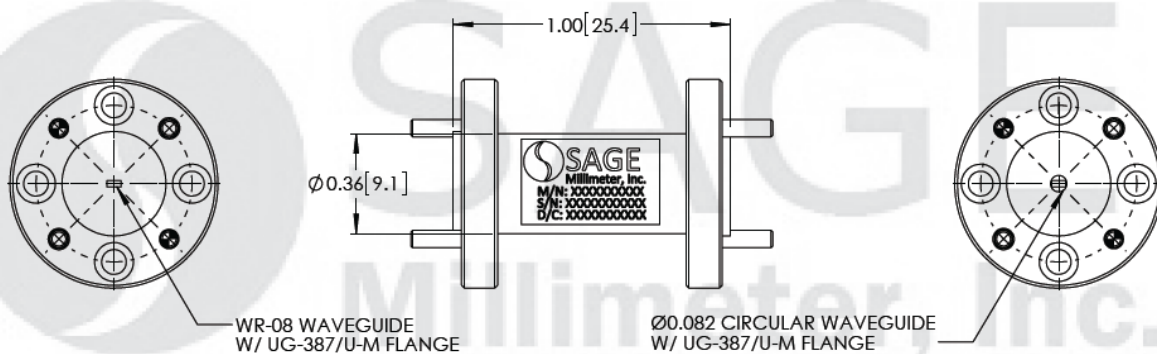
### Applications:

- Test Labs
- Test Instrumentation
- Sub-assemblies

### Mechanical Specifications:

Item	Specification
Waveguide	WR-08 Waveguide with UG-387/U-M Flange
Waveguide	0.082” 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-082

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



### Note:

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



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