SWT-06082-SB

WR-06 to 0.082” Diameter Circular Waveguide Mode Transition

Model SWT-06082-SB is a WR-06 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 mode 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.

Mechanical Specifications:

Item	Specification
Waveguide Size	WR-06 Waveguide with UG-387/U-M Anti-Cocking Flange
Waveguide Size	0.082” Diameter Circular Waveguide with UG-387/U-M Anti-Cocking Flange
Material	Brass
Finish	Gold Plated
Weight	0.8 Oz
Insertion Length	1”
Outline	WT-DC-082-A

ECCN

EAR99

FEATURES

- Rugged Waveguide Configuration
- Low Insertion Loss
- Insturmentation Grade

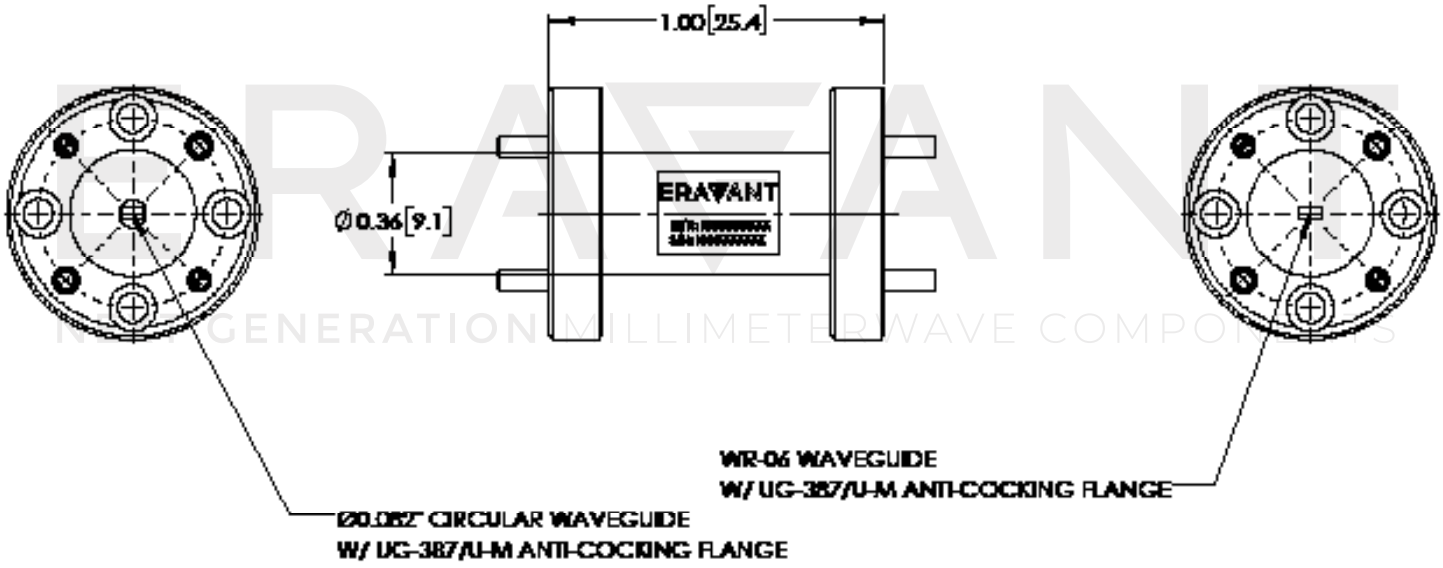
APPLICATIONS

- Test Labs
- Test Instrumentation
- Sub-Assemblies

SUPPLEMENTAL DETAILS

Mechanical Outline:

Unless otherwise specified, all dimensions are in inches [millimeters])



NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.
- For 1 mm connectors proper torque should be applied: 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm). Torque wrench model SCH-06004-S1 is highly recommended.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model SCH-08008-S1 is highly recommended.