

## SWT-1912-LB

### WR-19 to WR-12 Waveguide Taper Transition

**Model SWT-1912-LB** is a WR-19 to WR-12 waveguide taper transition. The taper transition is manufactured by either EDM machining or electro-forming techniques to ensure high accuracy and a quality surface finish. The taper transition only induces a fraction of a dB insertion loss and offers a return loss of 32 dB or better.



### Mechanical Specifications:

| Item             | Specification                                       |
|------------------|---|
| Waveguide Size   | WR-19 Waveguide with UG-383/U-M Anti-Cocking Flange |
| Waveguide Size   | WR-12 Waveguide with UG-387/U Anti-Cocking Flange   |
| Material         | Brass   |
| Finish           | Gold Plated   |
| Weight           | 0.8 Oz  |
| Insertion Length | 1.5"  |
| Outline          | WT-UE-A   |

#### ECCN

EAR99

#### FEATURES

- Rugged Waveguide Configuration
- Low Insertion Loss
- Instrumentation Grade

#### APPLICATIONS

- Test Labs
- Test Instrumentation
- Sub-Assemblies

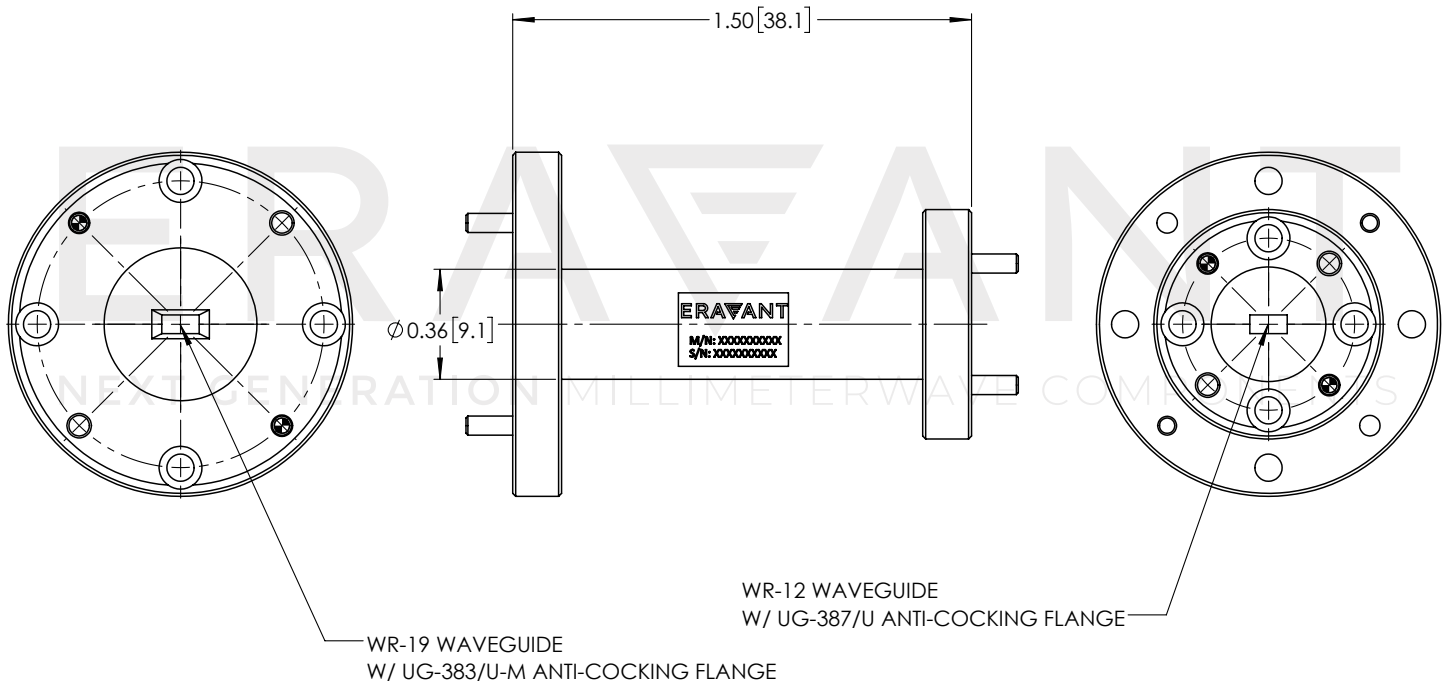
#### SUPPLEMENTAL DETAILS



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### 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:  $4.0 \pm 0.15$  inch-pounds ( $0.45 \pm 0.02$  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:  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm). Torque wrench model [SCH-08008-S1](#) is highly recommended.