

## SWT-22188-SB

### WR-22 to 0.188" Diameter Circular Waveguide Mode Transition

**Model SWT-22188-SB** is a WR-22 to 0.188" 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 43 to 50 GHz.



### Mechanical Specifications:

| Item             | Specification   |
|------------------|---|
| Waveguide Size   | WR-22 Waveguide with UG-383/U Flange                      |
| Waveguide Size   | 0.188" Diameter Circular Waveguide with UG-383/U-M Flange |
| Material         | Brass   |
| Finish           | Gold Plated   |
| Weight           | 0.8 Oz  |
| Insertion Length | 1.5"  |
| Outline          | WT-QC-188-A   |

### ECCN

EAR99

### FEATURES

- Rugged Waveguide Configuration
- Low Insertion Loss
- Instrumentation Grade

### APPLICATIONS

- Test Labs
- Test Instrumentation
- Sub-Assemblies

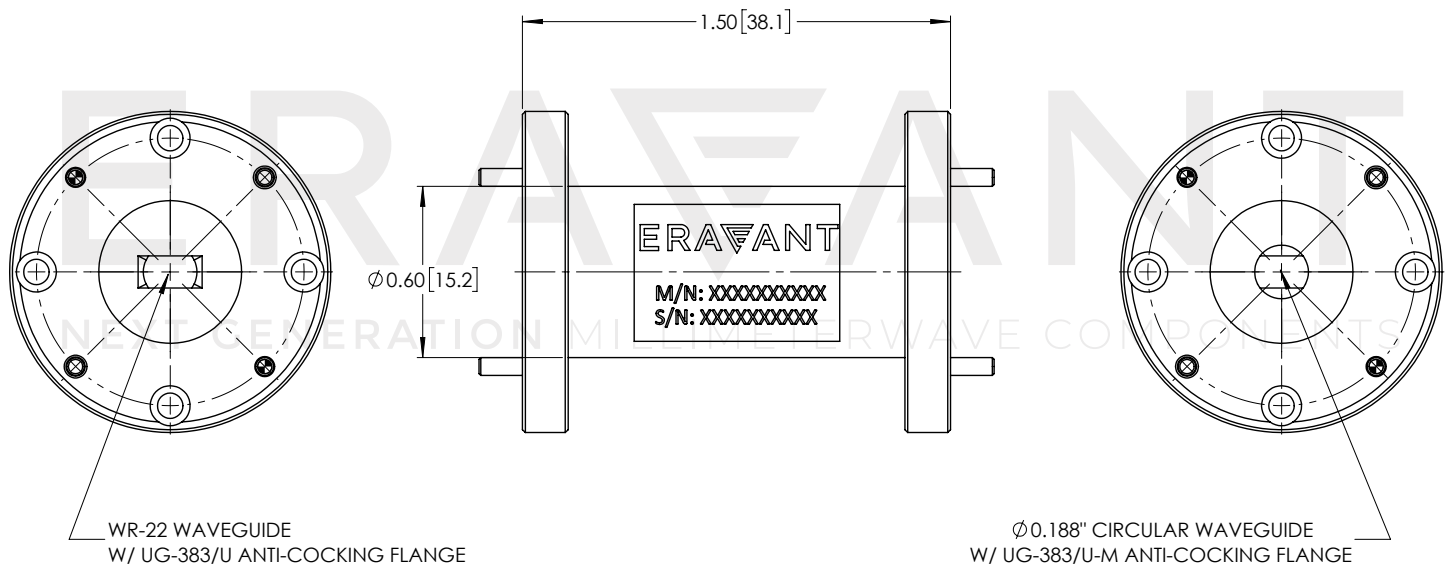
### SUPPLEMENTAL DETAILS



## SWT-22188-SB

### 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.