

SWT-22250-SB-599

WR-22 to 0.250" Diameter Circular Waveguide Mode Transition

SWT-22250-SB-599 is a WR-22 to 0.250" 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 33 to 38.5 GHz.



Mechanical Specifications:

Item	Specification
Waveguide Size	WR-22 Waveguide with UG-599/U-M Flange
Waveguide Size	0.250" Diameter Circular Waveguide with UG-599/U-M Flange
Material	Brass
Finish	Gold Plated
Weight	2.8 Oz
Insertion Length	1.5"
Outline	WT-QC-250-599

ECCN

EAR99

FEATURES

- Rugged Waveguide Configuration
- Low Insertion Loss
- Instrumentation Grade

APPLICATIONS

- Test Lab
- Test Instrumentation
- Sub-assemblies

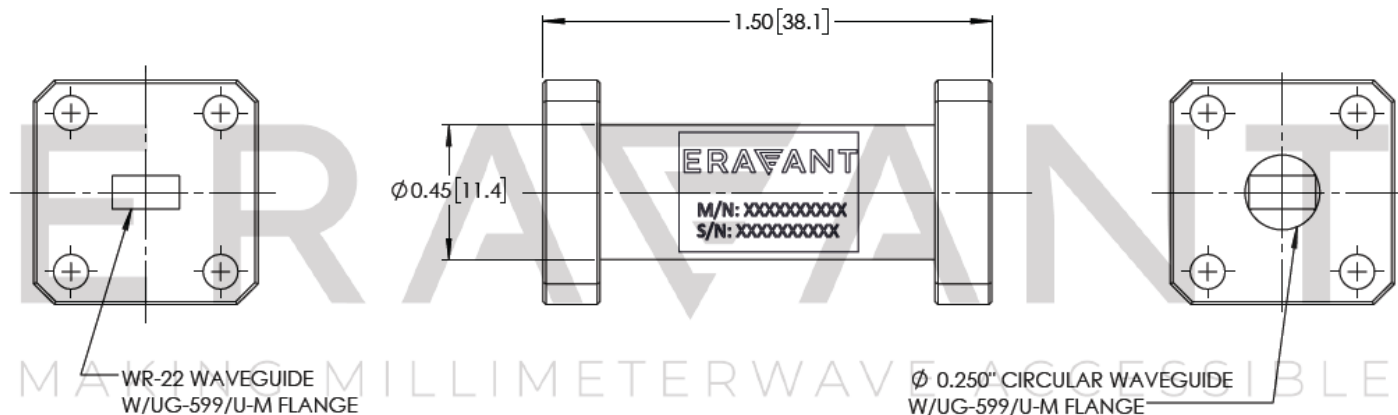
SUPPLEMENTAL DETAILS



## SWT-22250-SB-599

### Mechanical Outline:

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



### NOTE:

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

### Caution:

- 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.