

SWC-28KF-E1 and SWC-28KM-E1

Ka-Band Waveguide to 2.92mm Connector Adapter, End Launch

Models **SWC-28KF-E1** and **SWC-28KM-E1** are end launch (180°) Ka-Band waveguide to coax adapters that cover the frequency range of 26.5 to 40 GHz. They are designed and manufactured for instrumentation grade quality but offered at a commercial grade price, allowing for an efficient transition between the rectangular waveguide and 2.92 mm (K) coax connector. The right angle (90°) versions are offered under models **SWC-28KF-R1** and **SWC-28KM-R1**.



Electrical Specifications:

| Parameter | Minimum | Typical | Maximum |
|---------------------------|----------|---------|-----------|
| Frequency Range | 26.5 GHz | | 40 GHz |
| Insertion Loss | | 0.35 dB | 0.50 dB |
| Return Loss | 17 dB | 20 dB | |
| Power Handling | | | 20 W (CW) |
| Specification Temperature | | +25°C | |
| Operating Temperature | -40°C | | +85°C |

Mechanical Specifications:

| Item | Specification |
|--------------|--|
| Waveguide | WR-28 Waveguide with UG-599/U Flange |
| Coaxial Port | 2.92 mm (K) Female for Model Number: SWC-28KF-E1 |
| Coaxial Port | 2.92 mm (K) Male for Model Number: SWC-28KM-E1 |
| Material | Aluminum |
| Finish | Gold Plated |
| Weight | 0.2 Oz |
| Outline | WC-AE |

ECCN

EAR99

FEATURES

- Broad Band Coverage
- Lower Insertion Loss and VSWR
- Instrumentation Grade
- DC Short Circuit

APPLICATIONS

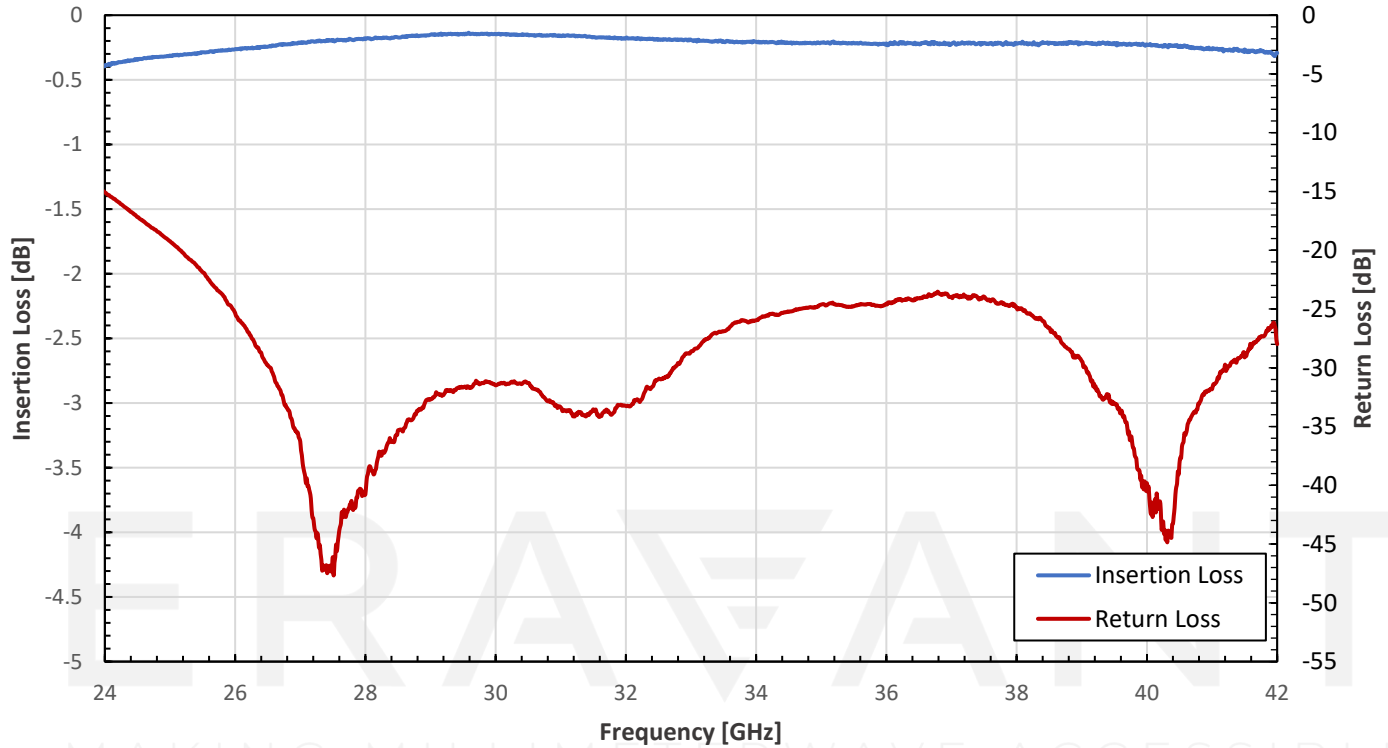
- Test Lab
- Instrumentations
- Sub-assemblies

SUPPLEMENTAL DETAILS



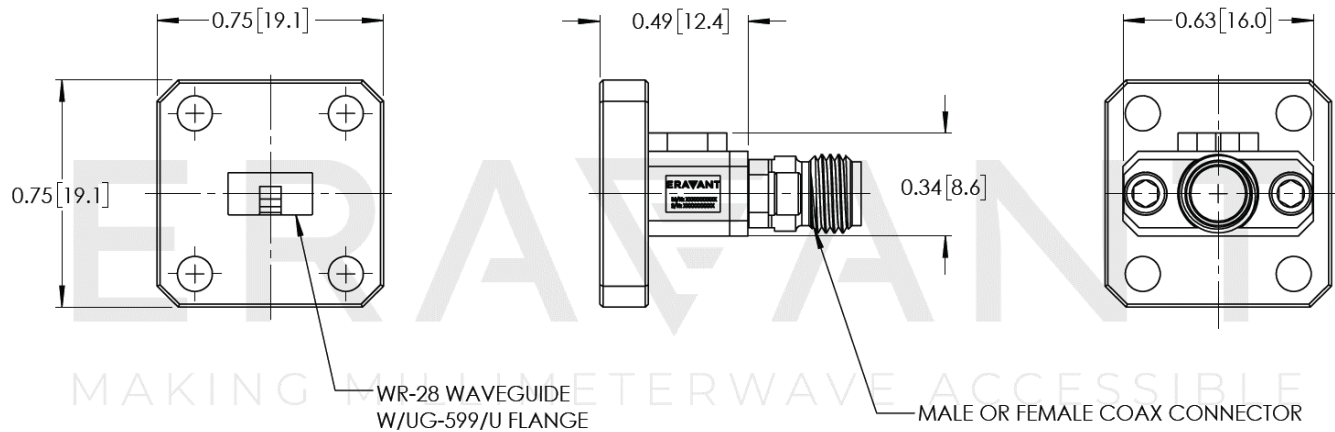
SWC-28KF-E1 and SWC-28KM-E1

Typical Performance vs. Frequency



Mechanical Outline:

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



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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:

- Any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.
- 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

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