

## 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 M/N: SWC-28KF-E1
Coaxial Port	2.92 mm (K) Male for M/N: SWC-28KM-E1
Body Material	Aluminum
Body Finish	Gold Plated
Connector Pin Material	Beryllium Copper Secured with ULTEM Ring
Connector Pin Finish	Gold Plated
Connector Body Material	Stainless Steel
Weight	0.2 Oz
Outline	WC-AE

#### ECCN

EAR99

#### FEATURES

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

#### APPLICATIONS

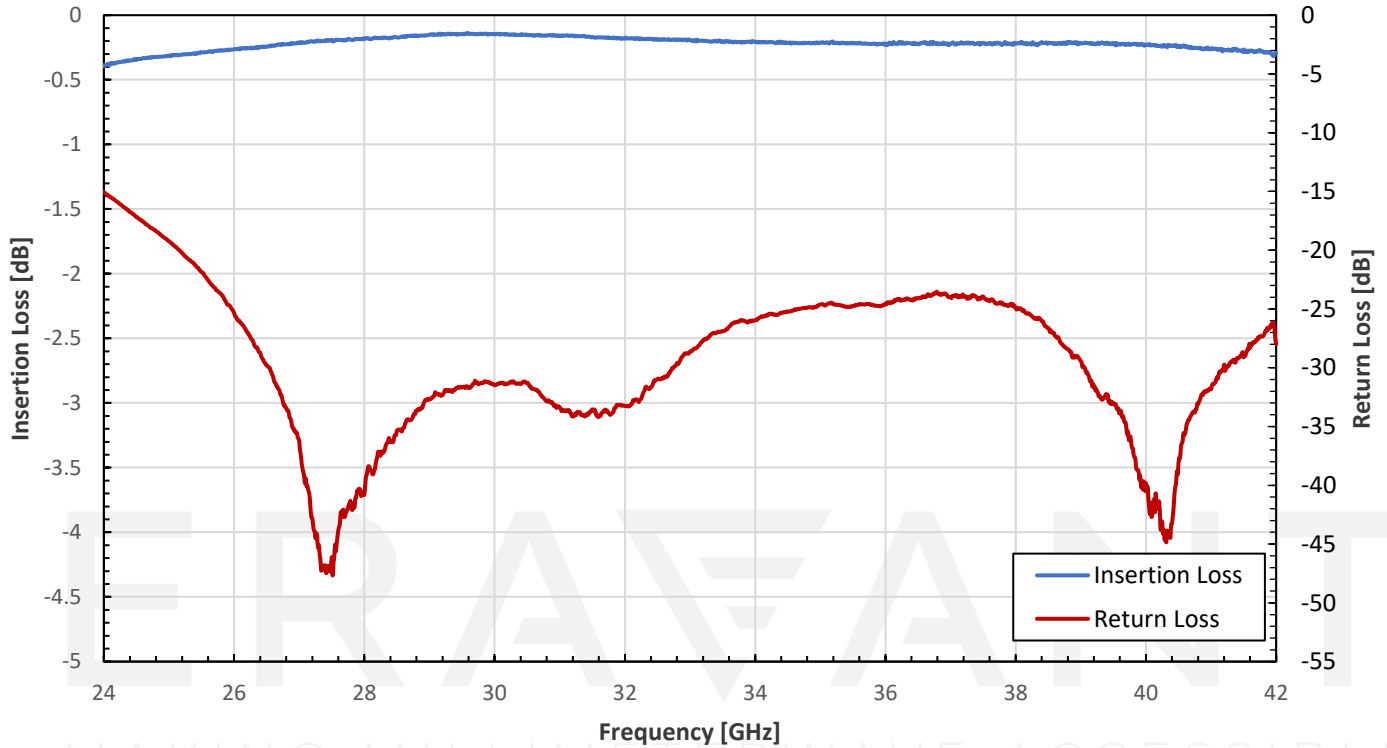
- Test Lab
- Instrumentations
- Sub-assemblies

#### SUPPLEMENTAL DETAILS



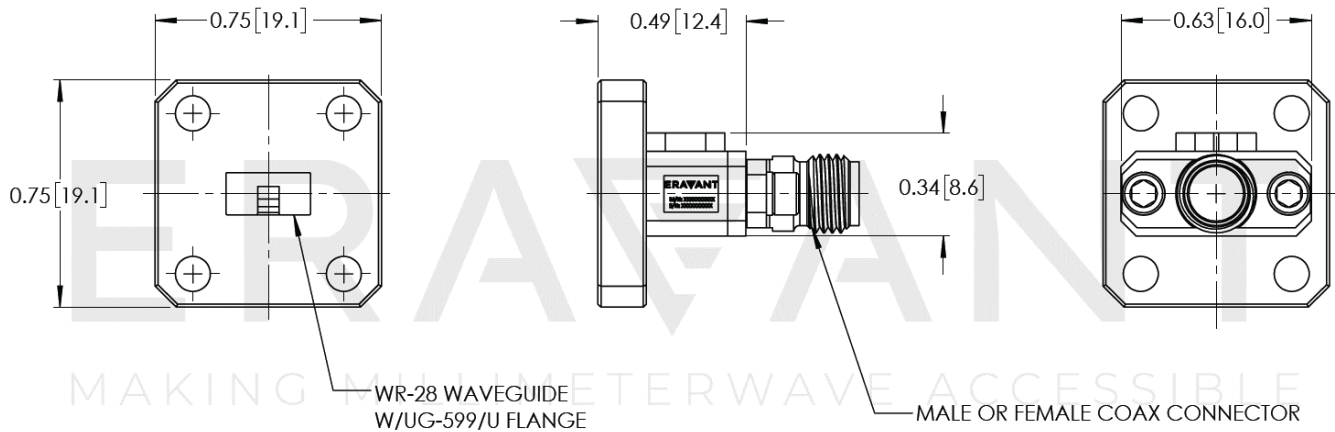
## SWC-28KF-E1 and SWC-28KM-E1

### Typical Performance vs. Frequency



### Mechanical Outline:

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



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

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

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