

## SWC-22KM-R1-599

### Q-Band Waveguide to 2.92 mm Connector Adapter, Right Angle, Non-Standard Flange

**SWC-22KM-R1-599** is a right angle (90°) Q-Band waveguide to coax adapter with a non-standard square flange (UG-599/U) that covers the frequency range of 33 to 43 GHz. It is are designed and manufactured for instrumentation grade quality but offered at a commercial grade price, allowing for an efficient transition between the rectangular waveguide to 2.92mm (K) coax connector. The end launch (180°) versions are offered under model numbers SWC-22KF-E1-599 and SWC-22KM-E1-599.



#### Electrical Specifications:

Parameter			Minimum	Typical	Maximum
Frequency Range	33-40 GHz*	Insertion Loss		0.4 dB	0.7 dB
		Return Loss	16 dB	18 dB	
	40-43 GHz*	Insertion Loss		0.4 dB	0.7 dB
		Return Loss		16 dB	
Power Handling				40 W (CW)	
Specification Temperature				+25°C	
Operating Temperature			-40°C		+85°C

\*Operating Frequency is limited by the 2.92 mm connector.

#### Mechanical Specifications:

Item	Specification
RF Ports	WR-22 Waveguide with UG-599/U Flange
Coaxial	2.92 mm (K) Male
Housing Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WC-QR-599

#### ECCN

EAR99

#### FEATURES

- 33 to 43 GHz Coverage
- Lower Insertion Loss and Return Loss
- Instrumentation Grade
- DC Open Circuit

#### APPLICATIONS

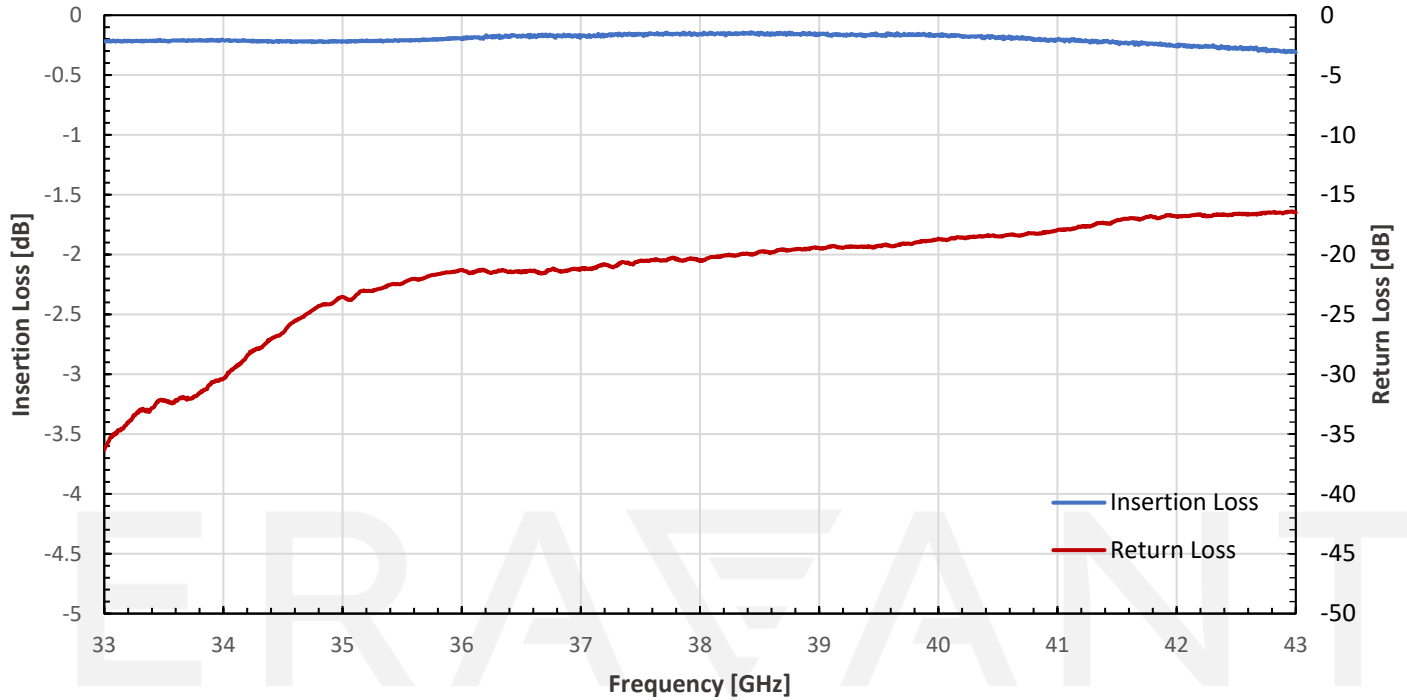
- Test Lab
- Instrumentations
- Sub-assemblies

#### SUPPLEMENTAL DETAILS



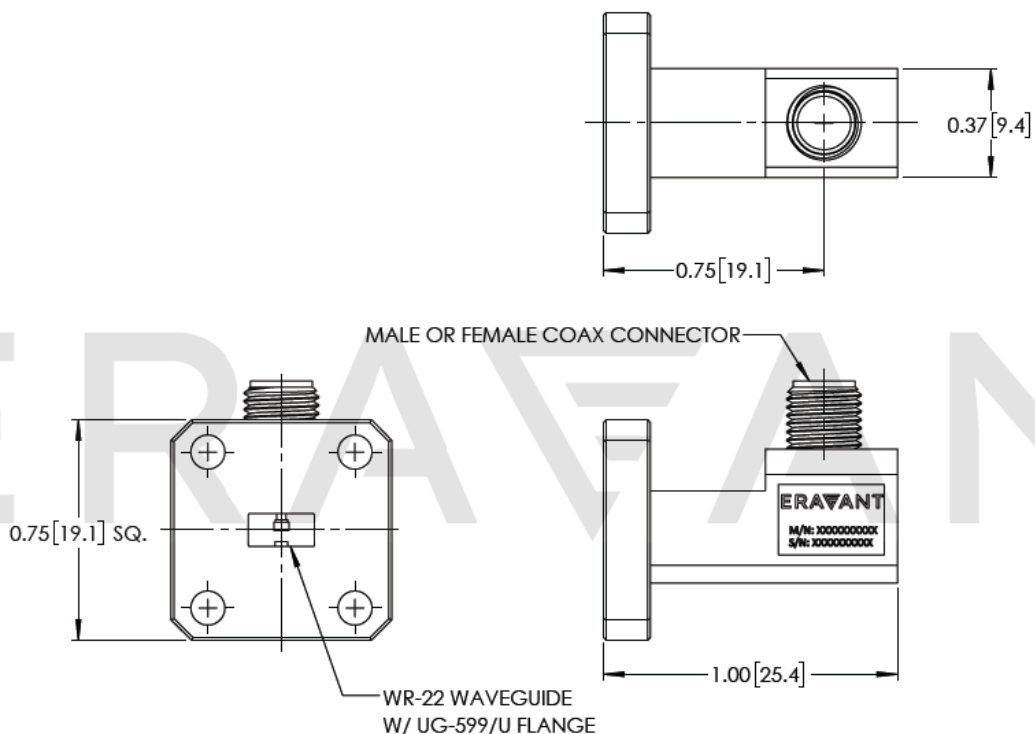
## SWC-22KM-R1-599

### Typical Performance vs. Frequency



### 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:**

- 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

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