ERAVANT

SWC-22KF-E1-WPC

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

SWC-22KF-E1-WPC is an end launch (180°) Q-Band waveguide to coax adapters that cover the frequency range of 33 to 43 GHz. The adapter is 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 model numbers SWC-22KF-R1 and SWC-22KM-R1.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	33 GHz		43 GHz*
Insertion Loss		0.80 dB	
Return Loss	16 dB	18 dB	
Power Handling			50 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

*Operating frequency is limited by the 2.92mm connector.

Mechanical Specifications:

Item	Specification
Waveguide	WR-22 with UG-383/U Flange
Coaxial	2.92 mm (K) Female for Model Number: SWC-22KF-E1
Housing Material	Aluminum
Finish	Gold Plated
Weight	0.5 Oz
Outline	WC-QE

ECCN

EAR99

FEATURES

- 33 to 43 GHz Coverage
- Lower Insertion Loss and VSWR
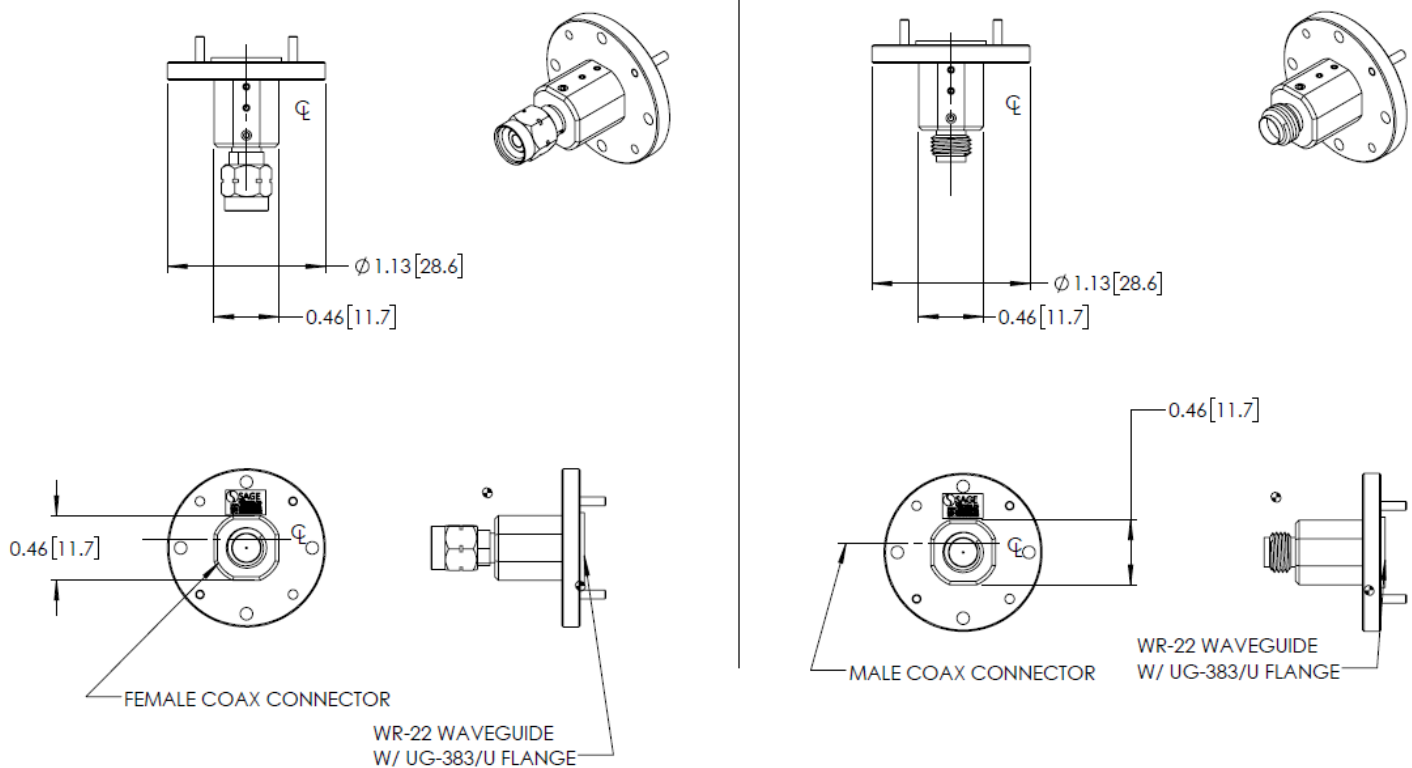- Instrumentation Grade
- DC Short Circuit

APPLICATIONS

- Test Lab
- Instrumentations
- Sub-assemblies

SUPPLEMENTAL DETAILS

RoHS

Mechanical Outline:

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

Ø 1.13 [28.6]
0.46 [11.7]

0.46 [11.7]

FEMALE COAX CONNECTOR

WR-22 WAVEGUIDE
W/ UG-383/U FLANGE

Ø 1.13 [28.6]
0.46 [11.7]

0.46 [11.7]

MALE COAX CONNECTOR

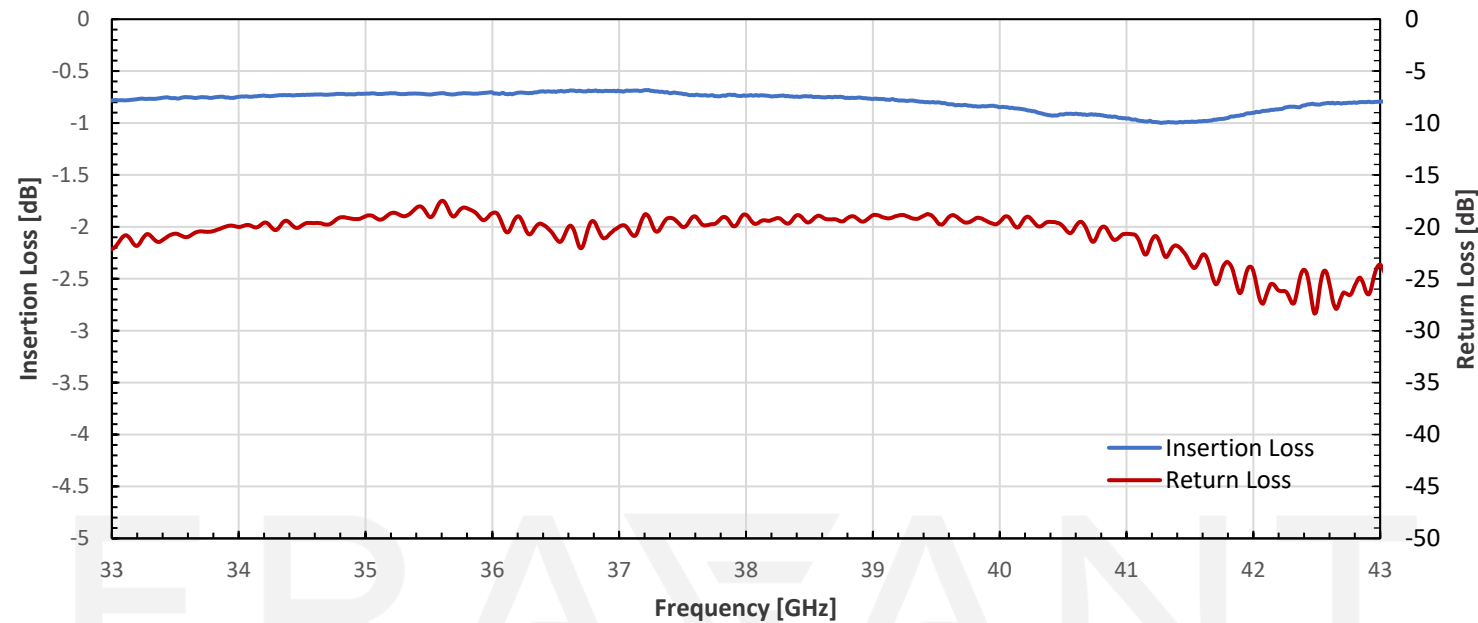WR-22 WAVEGUIDE
W/ UG-383/U FLANGE

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 the adapter.
- 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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Typical Performance vs. Frequency

Final Rev 1.1