

SWC-282F-R1 and SWC-282M-R1

Ka-Band Waveguide to 2.4mm Connector Adapter, Right Angle

Models **SWC-282F-R1** and **SWC-282M-R1** are right angle (90°) Ka-Band waveguide to 2.4 mm 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 efficient transition between the rectangular waveguide and 2.4 mm coax connector. The end launch (180°) versions are offered under model numbers **SWC-282F-E1** and **SWC-282M-E1**.



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			40 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	2.4 mm Female for Model Number: SWC-282F-R1
Coaxial Port	2.4 mm Male for Model Number: SWC-282M-R1
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WC-AR

ECCN

EAR99

FEATURES

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

APPLICATIONS

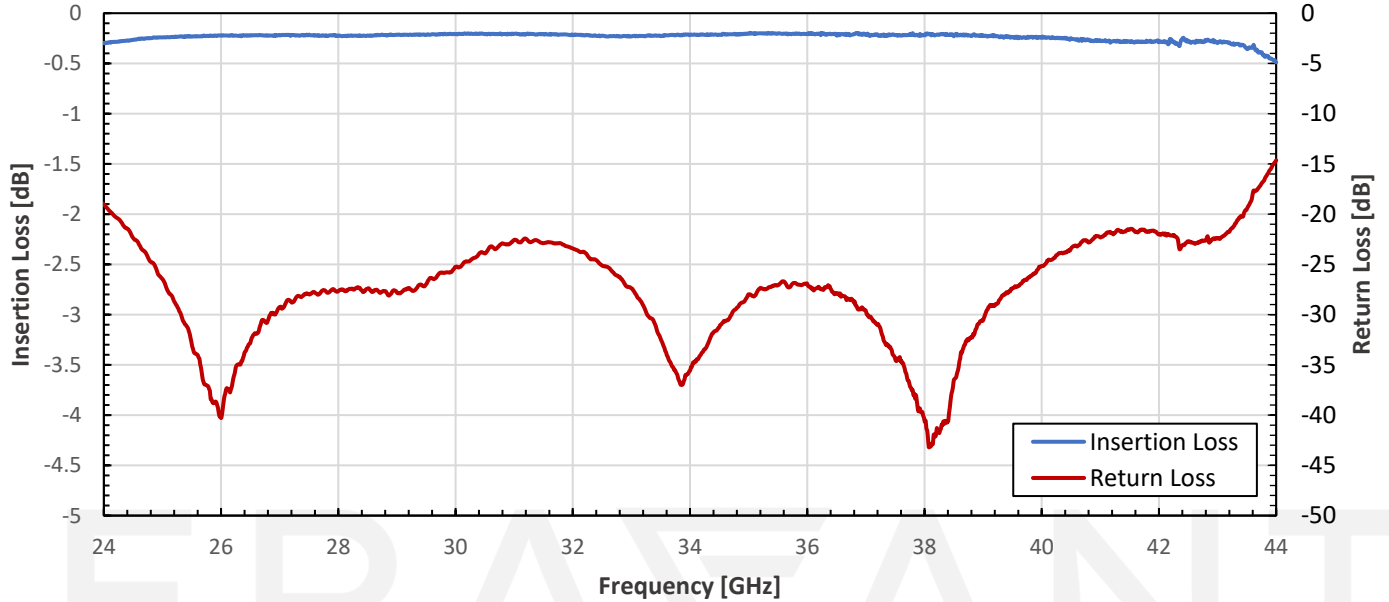
- Test Lab
- Instrumentations
- Sub-assemblies

SUPPLEMENTAL DETAILS



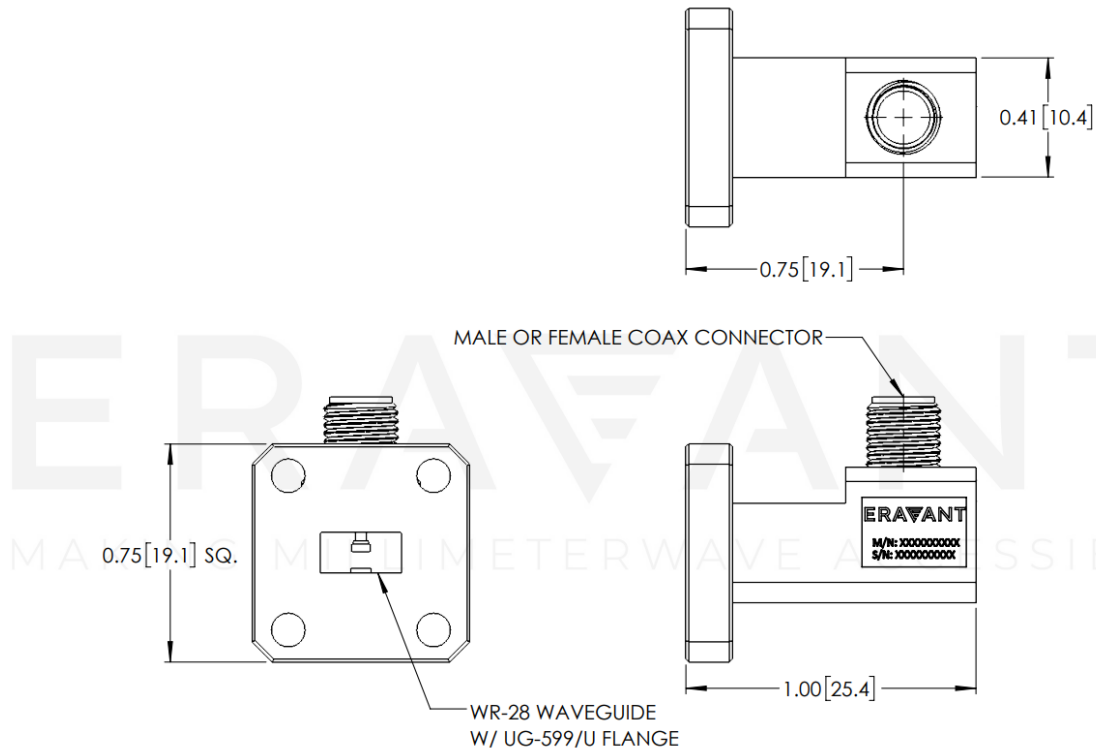
SWC-282F-R1 and SWC-282M-R1

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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