



Ka-Band Waveguide to 2.4 mm Connector Adapter, End Launch

Description:

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



Features:

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

Applications:

- Test Lab
- Instrumentations
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	26.5 GHz		40.0 GHz
Insertion Loss*		0.35 dB	0.50 dB
Return Loss	17 dB	20 dB	
Power Handling			50 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

*Insertion loss is tested back to back with a male and female adapter, the result is divided by 2.

Mechanical Specifications:

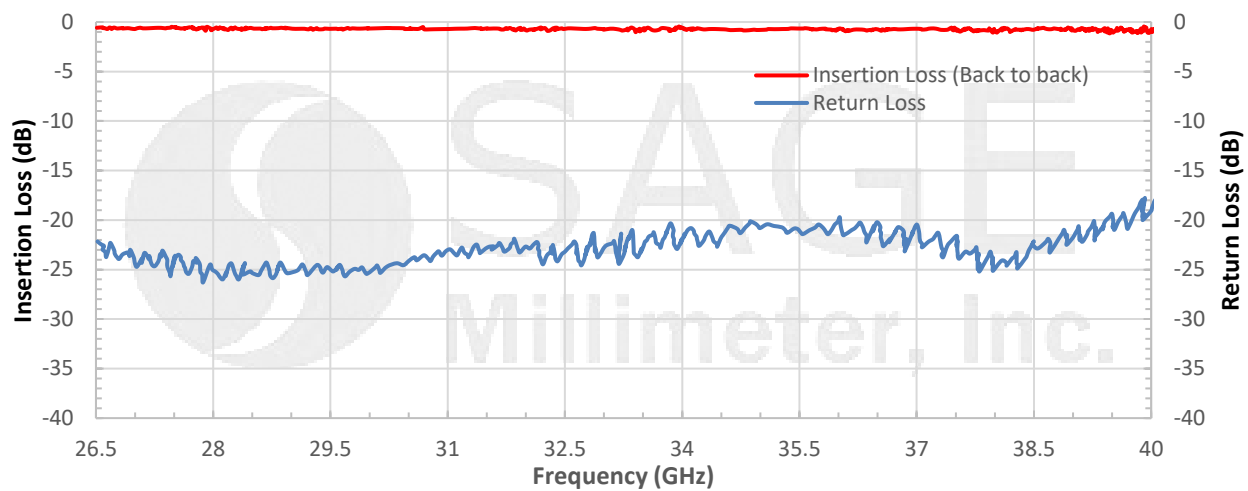
Item	Specification
Waveguide	WR-28 with UG599/U Flange
Coaxial	2.4 mm Female for Model Number: SWC-282F-E1
Coaxial	2.4 mm Male for Model Number: SWC-282M-E1
Size	0.91" (L) x 0.75" (S) for Model Number: SWC-282F-E1
Size	0.99" (L) x 0.75" (S) for Model Number: SWC-282M-E1
Housing Material	Aluminum
Finish	Gold Plated
Weight	0.2 Oz
Outline	WC-AE



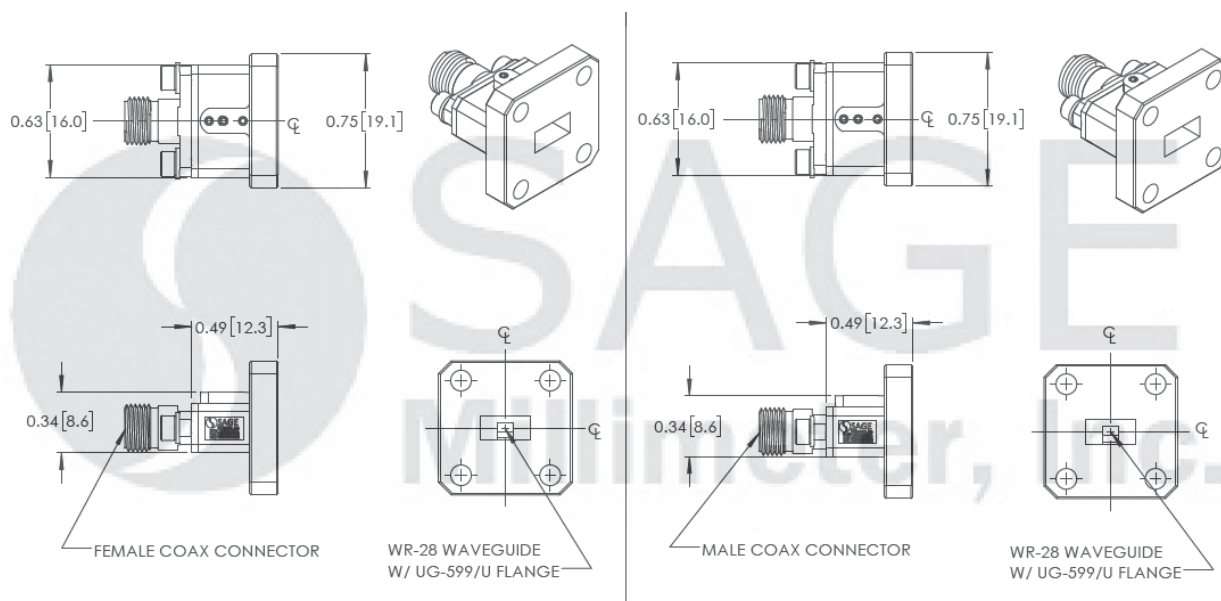


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Typical Return Loss & Back to Back Insertion Loss vs. Frequency



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- All testing was performed under +25°C case temperature.
- SAGE Millimeter, Inc. 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.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**



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