



WR-08 Waveguide to 1.0 mm Connector Adapter, End Launch

Description:

Models SWC-081F-E1 and SWC-081M-E1 are end launch (180°) WR-08 waveguide to coax adapters that cover the frequency range of 90 to 125 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 WR-08 waveguide and 1.0 mm coax connector. The right angle (90°) versions are offered under model numbers SWC-081F-R1 and SWC-081M-R1.



Features:

- Lower Insertion Loss
- Instrumentation Grade
- DC Short Circuit

Applications:

- Test Lab
- Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	90 GHz		125 GHz
Insertion Loss		1.0 dB	
Return Loss		14 dB	
Power Handling			5 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

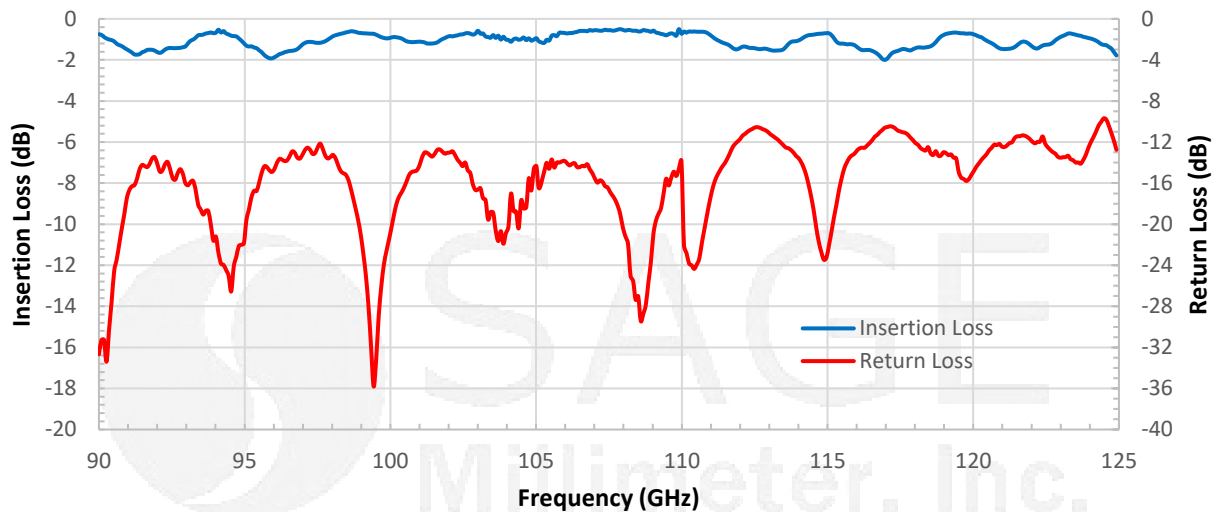
Item	Parameter
Waveguide	WR-08 with UG-387/U-M Flange
Coaxial	1.0 mm Female for Model Number: SWC-081F-E1
Coaxial	1.0 mm Male for Model Number: SWC-081M-E1
Insertion Length	0.47"
Housing Material	Brass
Finish	Gold Plated
Weight	0.3 Oz
Outline	WC-FE



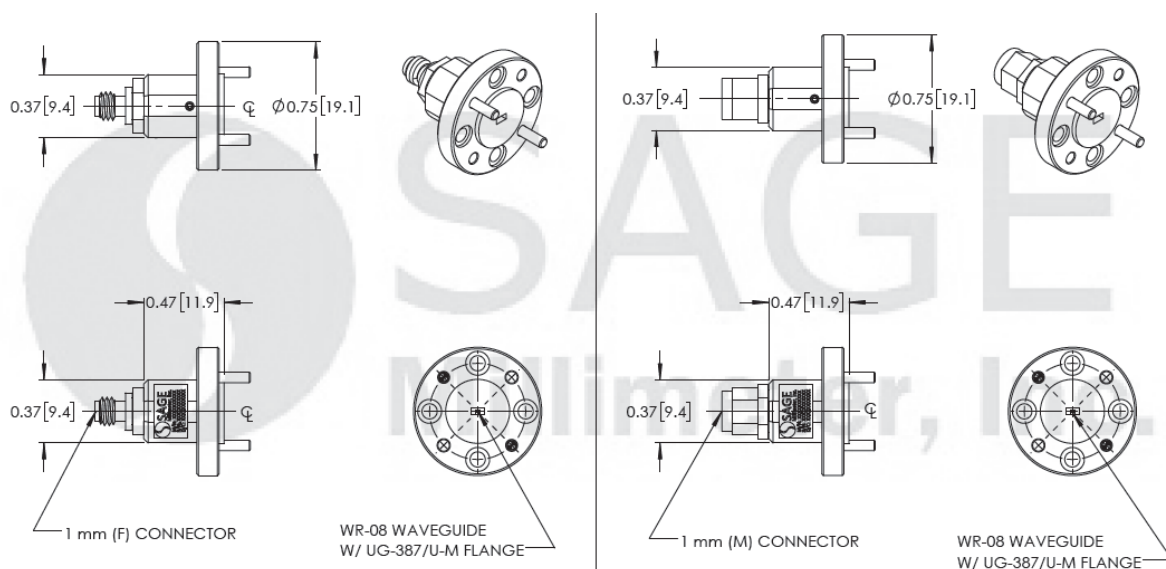


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Typical Insertion Loss & Return Loss vs. Frequency



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, slightly.
- 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, 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm), should be used. **SAGE Millimeter torque wrench, model SCH-06004-S1, is highly recommended.**

