

WR-75 Waveguide to SMA Connector Adapter, Right Angle

Description:

Models SWC-75SM-R5 is a right angle (90°) WR-75 waveguide to coax adapters that cover the frequency range of 9.84 to 15 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 SMA connector. The end launch (180°) version is offered under model number SWC-75SM-E5.



Features:

- Full Waveguide Band Coverage
- Lower Insertion Loss and High Return Loss
- Instrumentation Grade
- DC Open Circuit

Applications:

- Test Lab
- Instrumentations
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	9.84 GHz		15.00 GHz
Insertion Loss		0.2 dB	
Return Loss		20 dB	
Power Handling			150 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

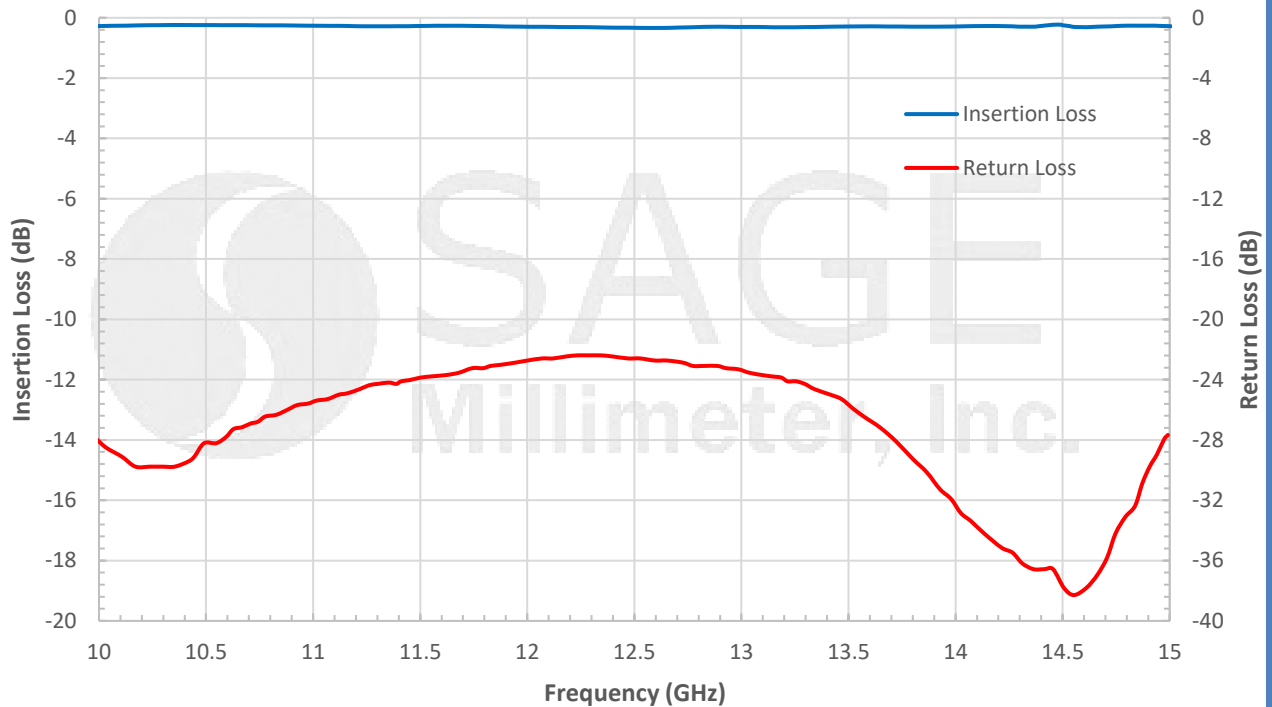
Mechanical Specifications:

Item	Specification
Waveguide Port	WR-75 Waveguide with Standard Flange
Coaxial Port	SMA Male Connector
Material	Alloyed Copper
Inner Finish	Silver Plated
Outer Finish	Black Paint
Weight	4.0 Oz
Size	2.51" (L) x 1.50" (S)
Outline	WC-7R-BX1

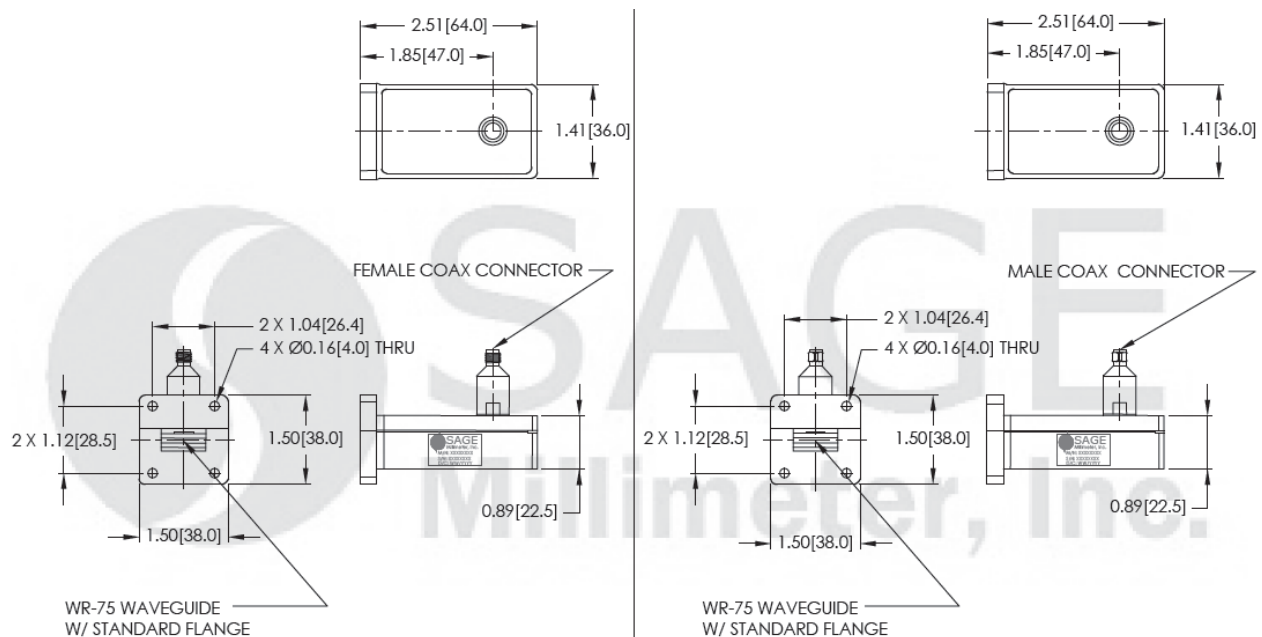


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Typical Performance vs. Frequency



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





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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-U3, is highly recommended.**

