

X-Band Waveguide to SMA Connector Adapter, Right Angle

Description:

Models SWC-90SF-R5 and SWC-90SM-R5 are right angle (90°) X-Band waveguide to coax adapters that cover the frequency range of 8.2 to 12.4 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 SMA coax connector. The end launch (180°) versions are offered under model numbers SWC-90SF-E5 and SWC-90SM-E5.



Features:

- Broad Band Coverage
- Low Insertion Loss
- Instrumentation Grade
- DC Open Circuit

Applications:

- Test Lab
- Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	8.2 GHz		12.4 GHz
Insertion Loss			0.20 dB
Return Loss		20 dB	
Power Handling			150 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

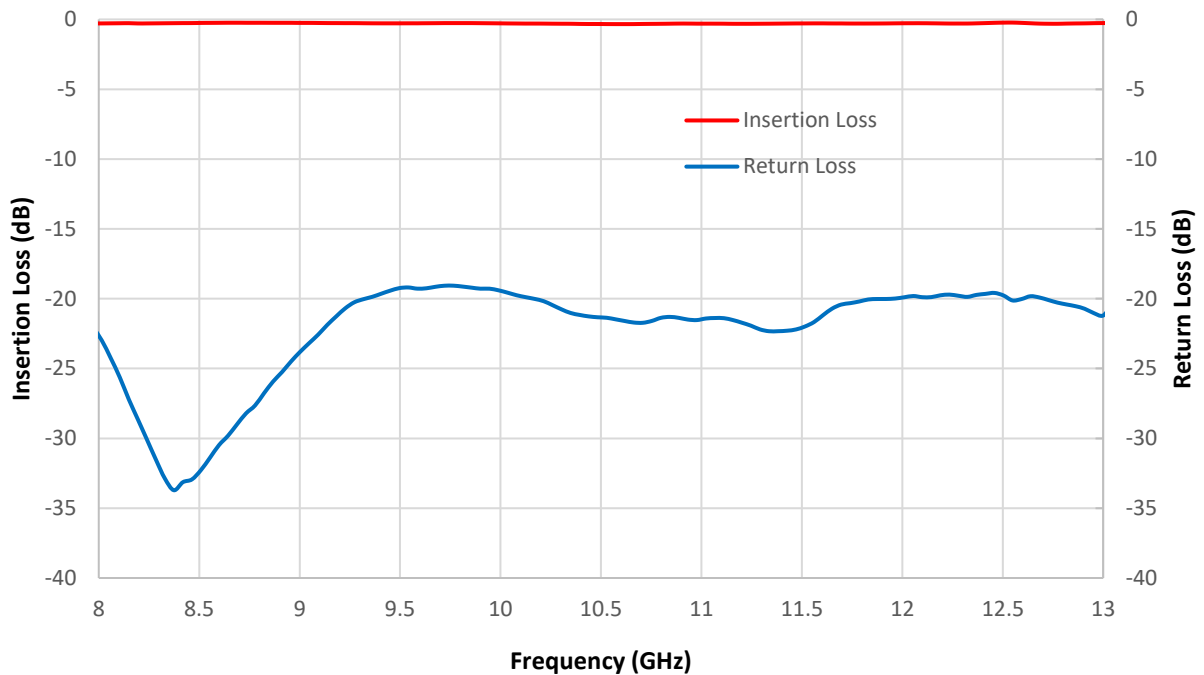
Mechanical Specifications:

Item	Specification
Waveguide Port	WR-90 Waveguide with UG-39/U Flange
Coaxial Port	SMA Female for Model Number: SWC-90SF-R1
Coaxial Port	SMA Male for Model Number: SWC-90SM-R1
Size	1.30" (L) x 1.63" (S) for Model Number: SWC-90SF-R1
Size	1.50" (L) x 1.63" (S) for Model Number: SWC-90MF-R1
Material	Alloyed Copper
Inner Finish	Silver Plated
Outer Finish	Black Paint
Weight	3.2 Oz
Outline	WC-XR-H1

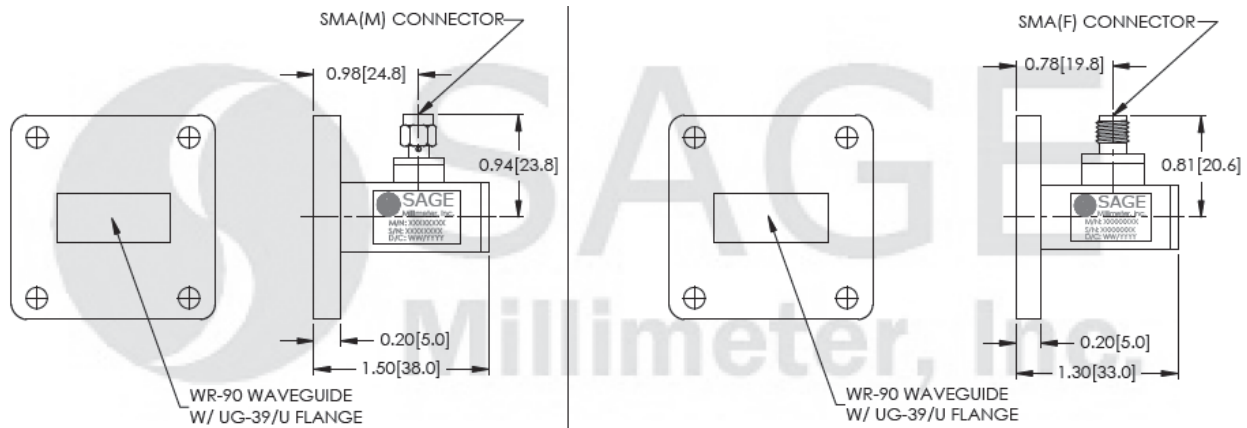


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Typical Insertion Loss & Return Loss vs. Frequency



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



Note:

- 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 possible device damage.
- 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.**

