

## WR-75 Waveguide to SMA Connector Adapter, End Launch

### Description:

**Models SWC-75SF-E5** is an end launch (180°) X-Band waveguide to coax adapters that cover the frequency range of 10 to 15 GHz. It's 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 right angle (90°) versions are offered under model numbers SWC-75SF-R5.



### Features:

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

### Applications:

- Test Lab
- Instrumentations
- Sub-assemblies

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	10 GHz		15 GHz
Insertion Loss		0.3 dB	
Return Loss		20 dB	
Power Handling			150 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

### Mechanical Specifications:

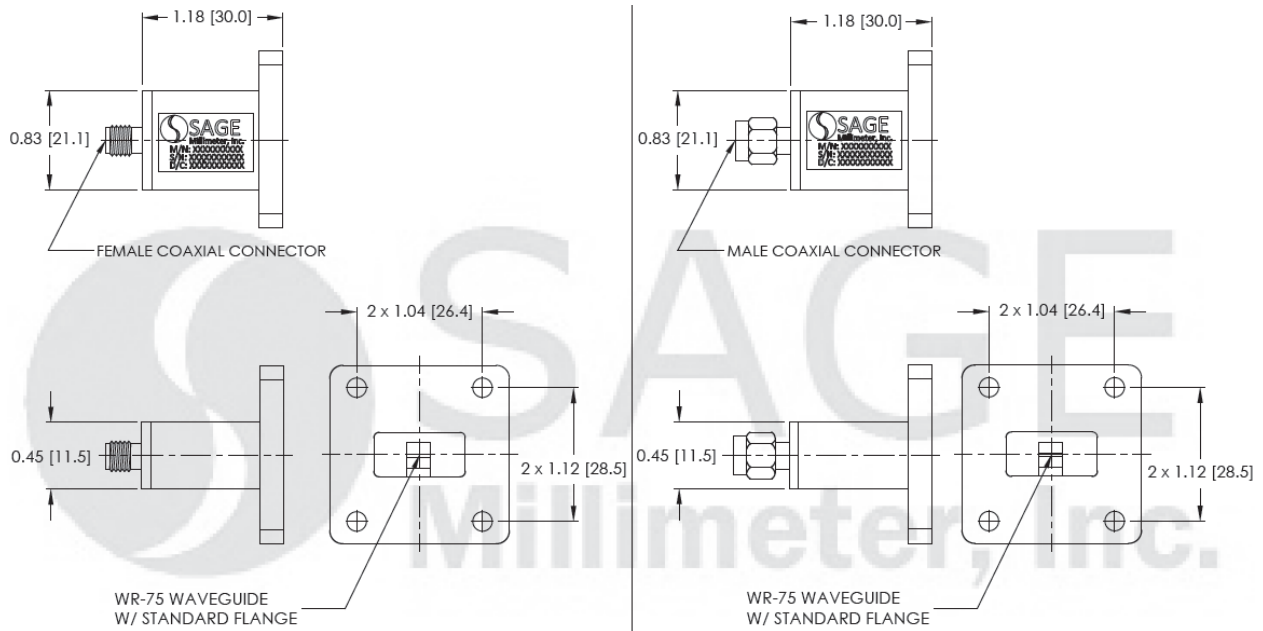
Item	Specification
Waveguide Port	WR-75 Waveguide with Standard Flange
Coaxial Port	SMA Female Connector
Material	Alloyed Copper
Inner Finish	Silver Plated
Outer Finish	Black Paint
Weight	3.2 Oz
Size	1.18" (L) x 1.50" (S)
Outline	WC-7E-BX1





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**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 may damage the adapter.
- Proper torque,  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-U3, is highly recommended.**

