

## WR-62 Waveguide to SMA Connector Adapter, Right Angle

### Description:

**Models SWC-62SF-R5** is a right angle (90°) WR-62 waveguide to coax adapters that cover the frequency range of 12 to 18 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°) versions is offered under model numbers SWC-62SF-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	12 GHz		18 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

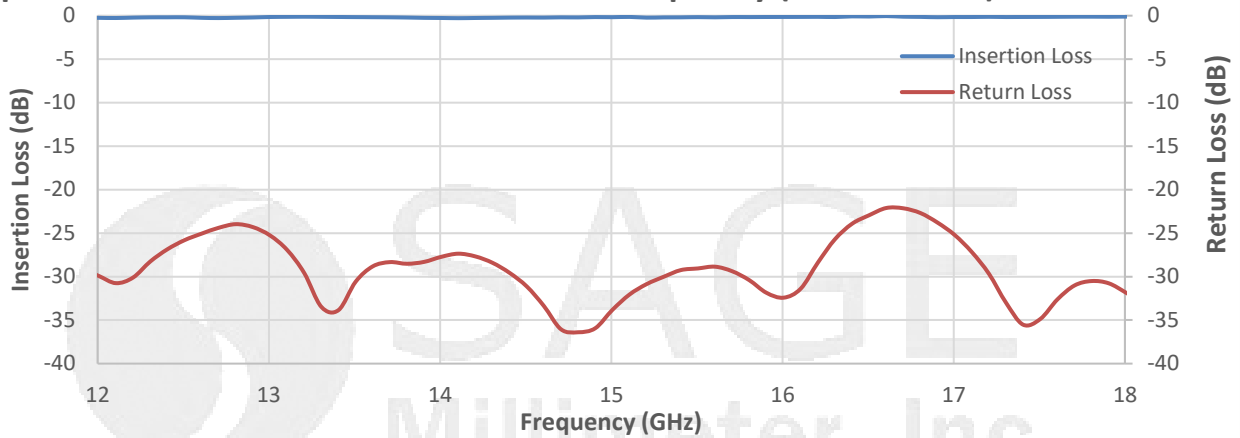
### Mechanical Specifications:

Item	Specification
Waveguide Port	WR-62 Waveguide with UG-419/U Flange
Coaxial Port	SMA Female Connector
Material	Alloyed Copper
Inner Finish	Silver Plated
Outer Finish	Black Paint
Weight	1.5 Oz
Size	2.10" (L) x 1.30" (S)
Outline	WC-6R-BX1

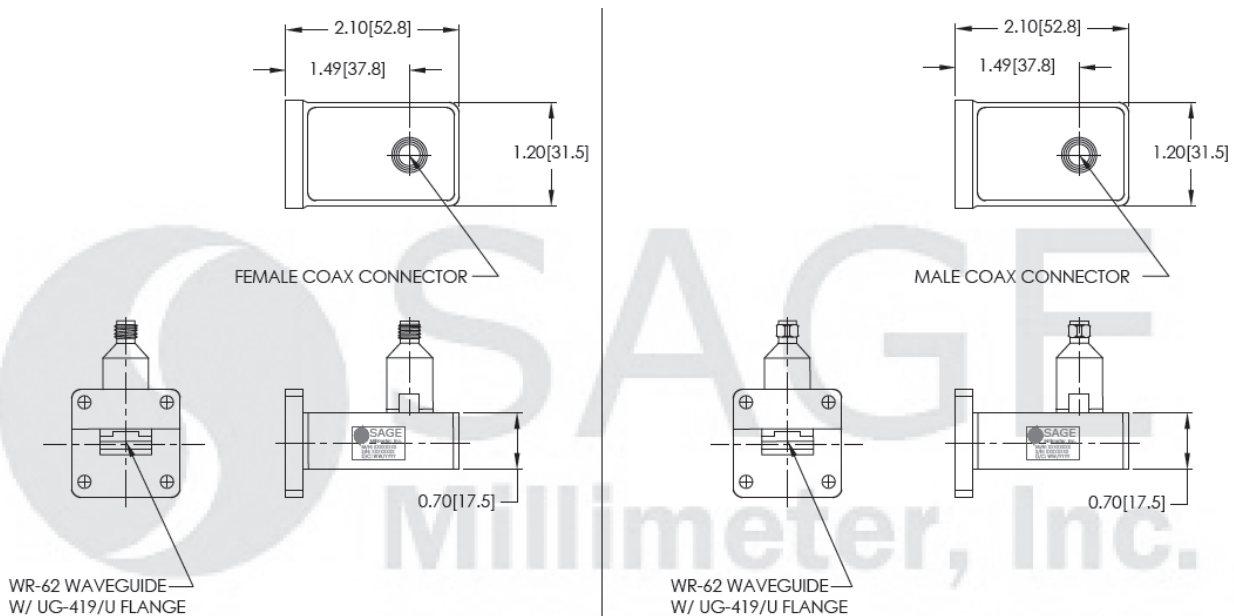


## WR-62 Waveguide to SMA Connector Adapter, Right Angle

### Typical Insertion Loss and Return Loss vs. Frequency (Back to Back)



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



www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505  
 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com