

## Ku-Band Waveguide to SMA Connector Adapter, End Launch

### Description:

**Model SWC-62SF-E5-WP** is an end launch (180°) Ku-Band waveguide to SMA 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 coax connector. The right angle (90°) versions are offered under model numbers **SWC-62SF-R5** and **SWC-62SM-R5**.



### Features:

- Full Waveguide Band Coverage
- Low Insertion Loss
- Instrumentation Grade
- DC Short Circuit

### Applications:

- Test Lab
- Instrumentation
- Sub-assemblies

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	12 GHz		18 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

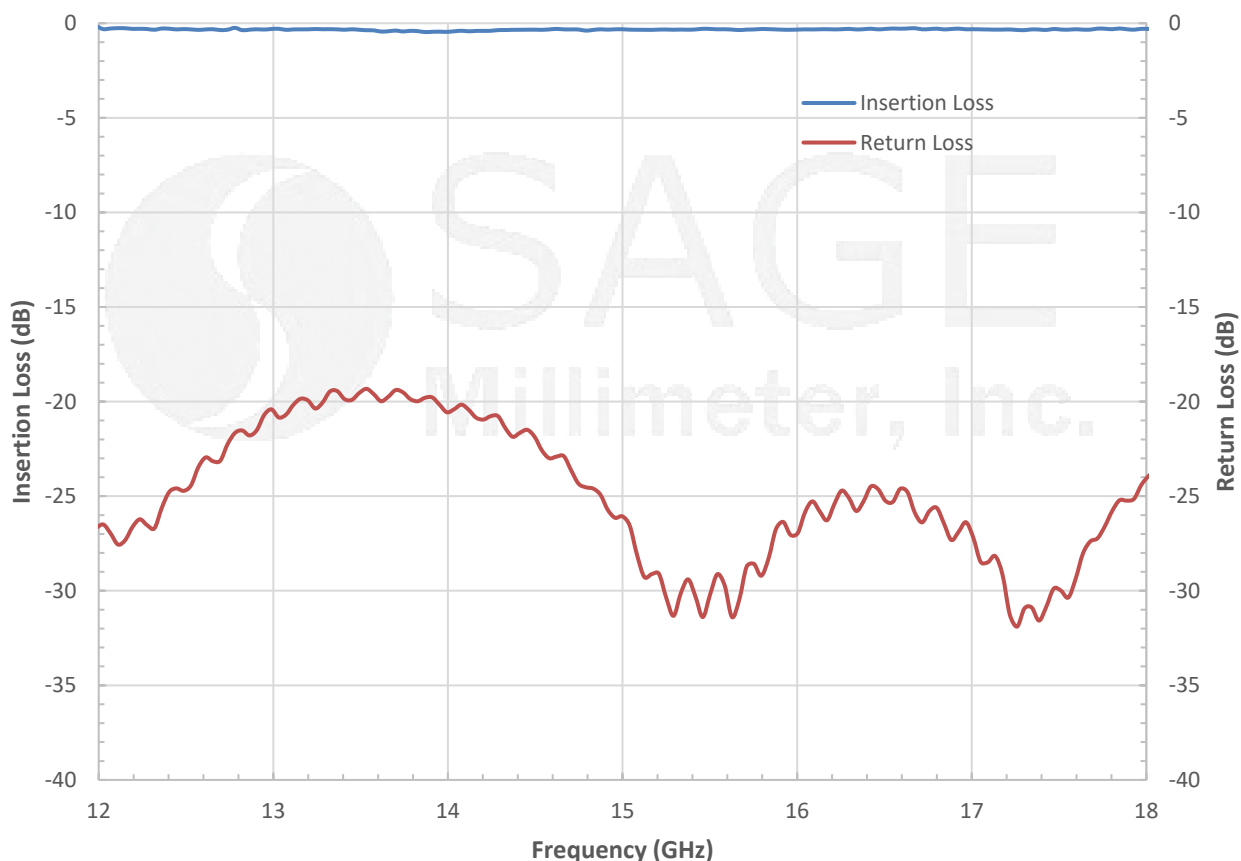
### Mechanical Specifications:

Item	Specification
Waveguide Port	WR-62 Waveguide with UG-419/U Flange
Coaxial Port	SMA (F)
Material	Aluminum
Inner Finish	Silver Plated
Outer Finish	Black Paint
Weight	1.3 oz.
Outline	WC-6E-BX1

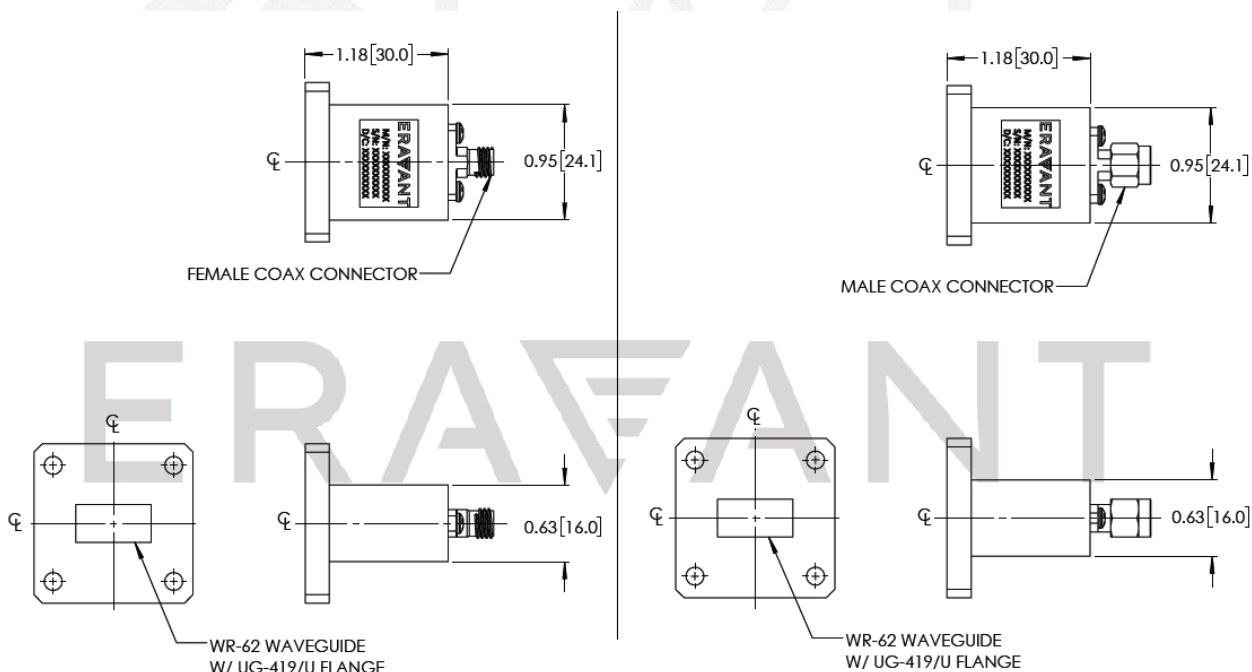


## Ku-Band Waveguide to SMA Connector Adapter, End Launch

### Typical Insertion Loss and Return Loss vs Frequency



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



www.eravant.com | 501 Amapola Avenue, Torrance, CA 90501  
 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: support@eravant.com



## Ku-Band Waveguide to SMA Connector Adapter, End Launch

### 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.
- Eravant 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,  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm), should be applied. **Eravant torque wrench, model SCH-08008-S1, is highly recommended.**

