



Ku-Band Waveguide to SMA Connector Adapter, Right Angle

Description:

Model SWC-62SF-R5-2 is a right angle (90°) Ku-Band waveguide to coax adapter that covers 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.



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:

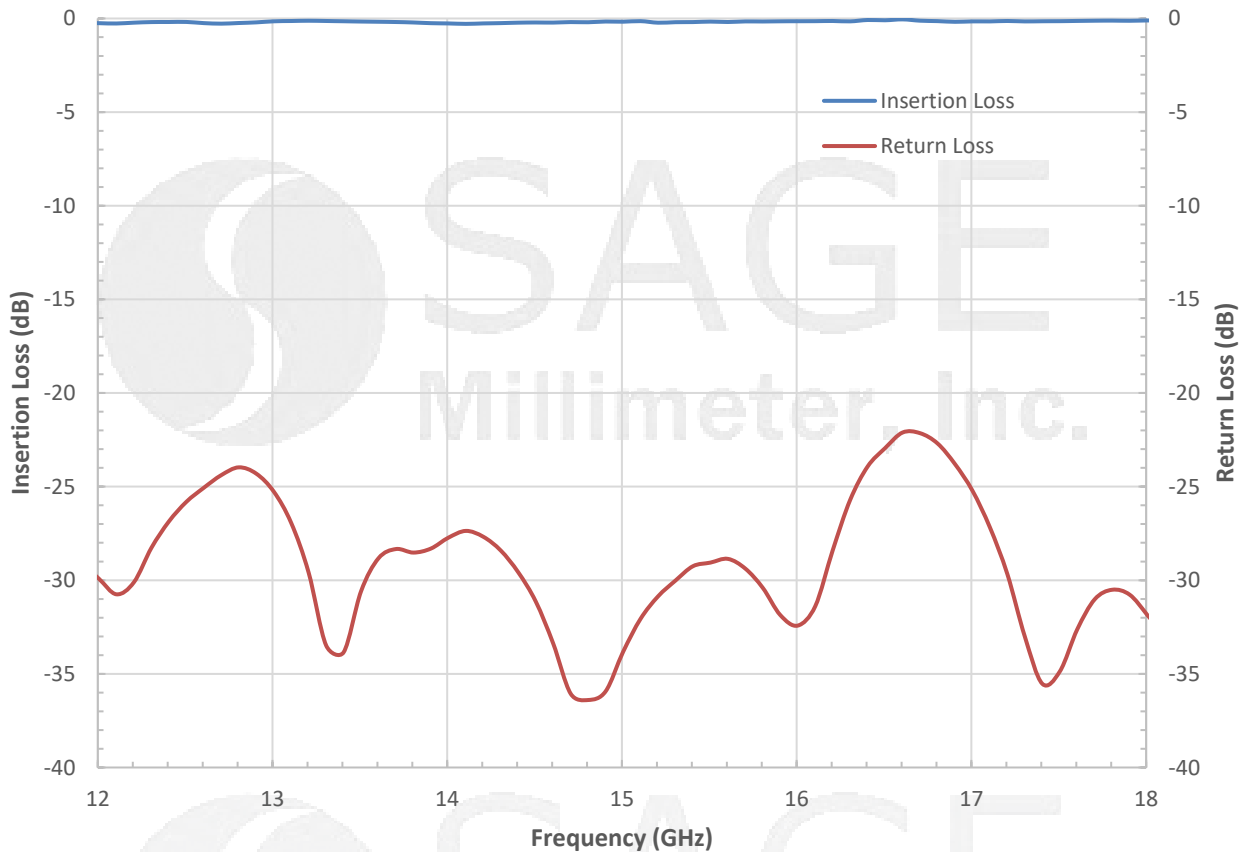
| Item | Specification |
|----------------|--------------------------------------|
| Waveguide Port | WR-62 Waveguide with UG-419/U Flange |
| Coaxial Port | SMA Female Connector |
| Material | Brass |
| Inner Finish | Passivated |
| Outer Finish | Black Paint |
| Weight | 8.0 oz. |
| Outline | WC-6R-BX1 |



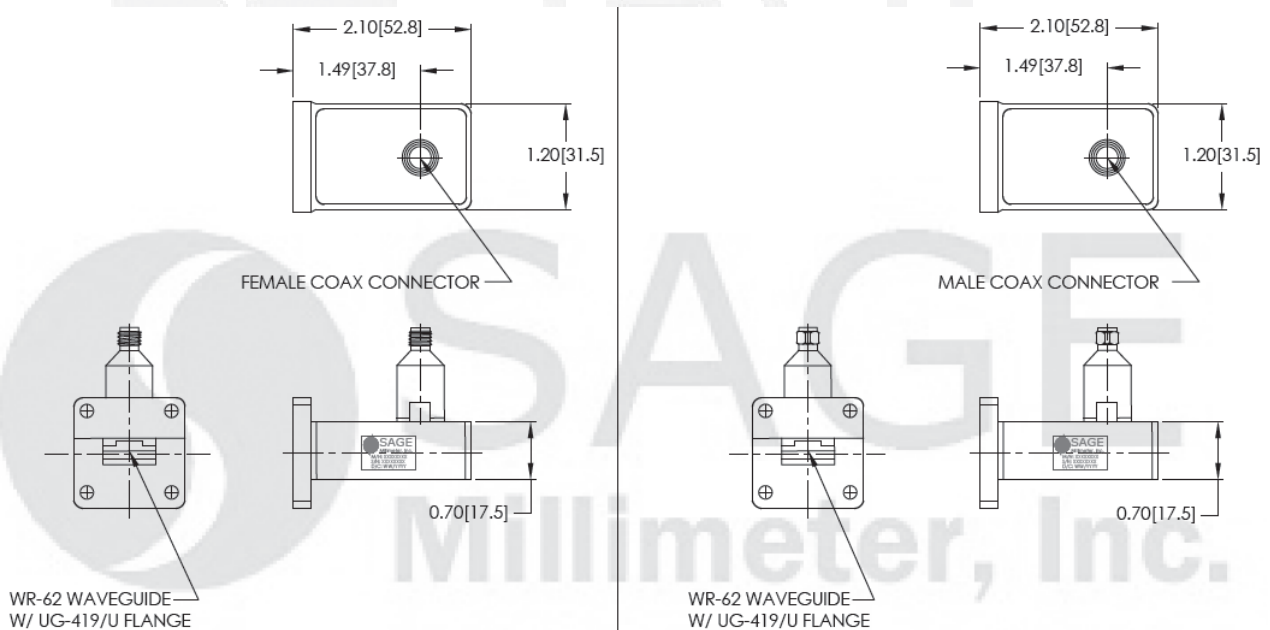


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Typical Insertion Loss and Return Loss vs Frequency



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, 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 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-S1, is highly recommended.**

