



## WR-34 Waveguide to K Connector Adapter, Right Angle

### Description:

**Models SWC-34KF-R1 and SWC-34KM-R1** are right angle (90°) WR-34 waveguide to coax adapters that cover the frequency range of 22 to 33 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 2.92 mm (K) coax connector. The end launch (180°) versions are offered under model numbers SWC-34KF-E1 and SWC-34KM-E1.



### Features:

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

### Applications:

- Test Lab
- Instrumentations
- Sub-assemblies

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	22 GHz		33 GHz
Insertion Loss*		0.35 dB	0.50 dB
Return Loss	17 dB	20 dB	
Power Handling			50 Watts
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

\*Insertion loss is tested back-to-back with a male and female adapter, the result is divided by 2.

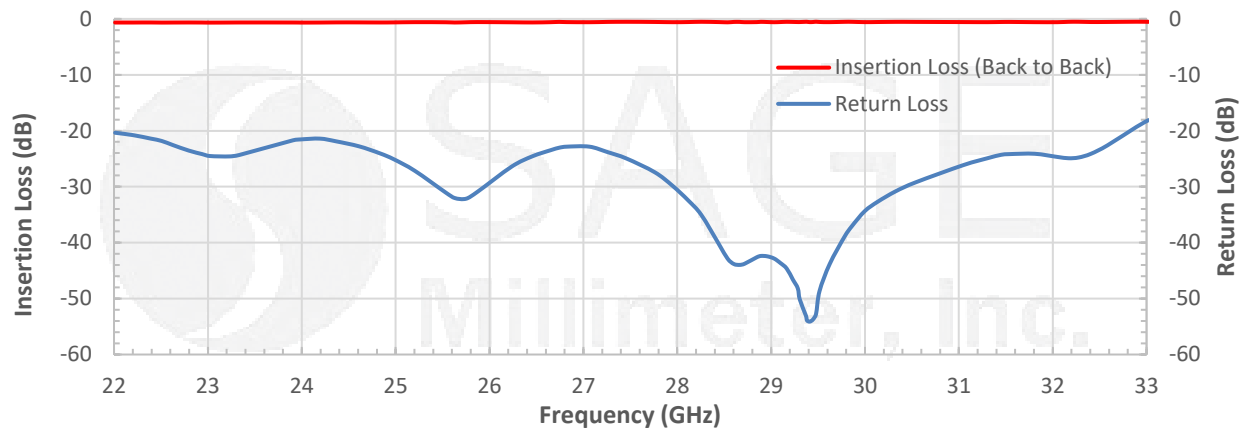
### Mechanical Specifications:

Item	Parameter
Waveguide Port	WR-34 Waveguide with UG-1530/U Flange
Coaxial Port	2.92 mm (K) Female for Model Number: SWC-34KF-R1
Coaxial Port	2.92 mm (K) Male for Model Number: SWC-34KM-R1
Size	0.85" (L) x 0.88" (S)
Housing Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WC-3R

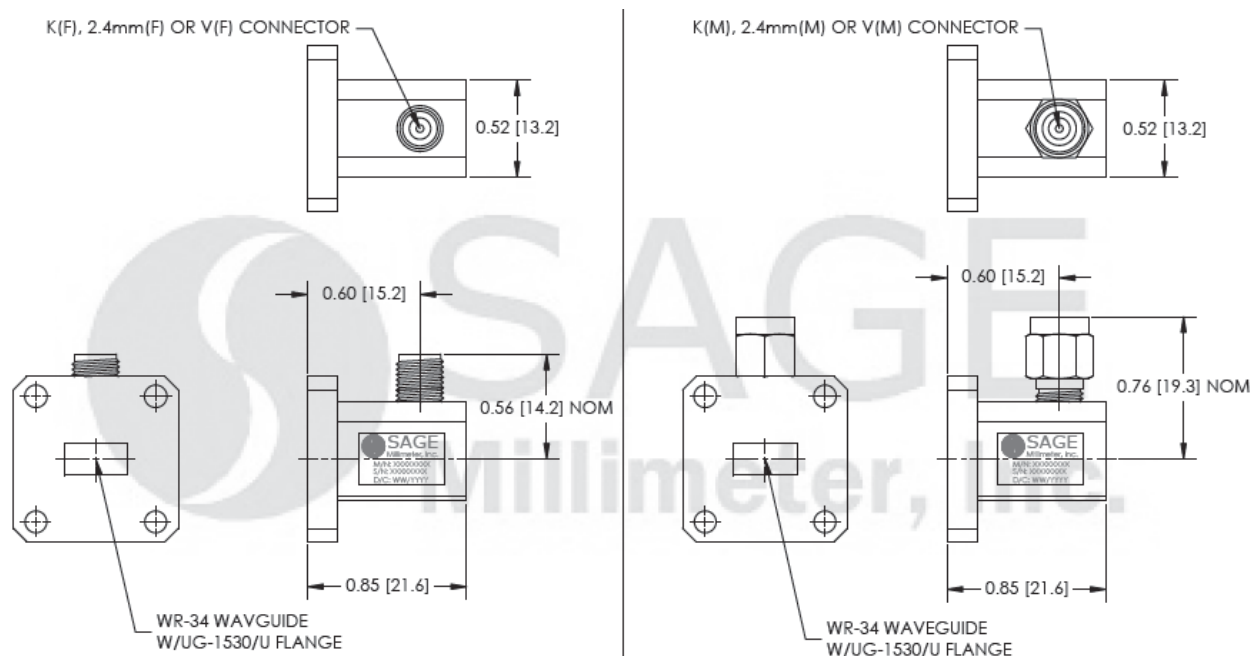


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### Typical Return Loss & Back to Back Insertion Loss vs. Frequency



**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 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**

