

SWC-28KF-R1 and SWC-28KM-R1

Rev. 1.2



Ka-Band Waveguide to K Connector Adapter, Right Angle

Description:

Models SWC-28KF-R1 and SWC-28KM-R1 are right angle (90°) Ka-Band waveguide to coax adapters that cover the frequency range of 26.5 to 40 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-28KF-E1 and SWC-28KM-E1.



Features:

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

Applications:

- Test Lab
- Instrumentations
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	26.5 GHz		40.0 GHz
Insertion Loss*		0.35 dB	0.50 dB
Return Loss	17 dB	20 dB	
Power Handling			20 W (CW)
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:

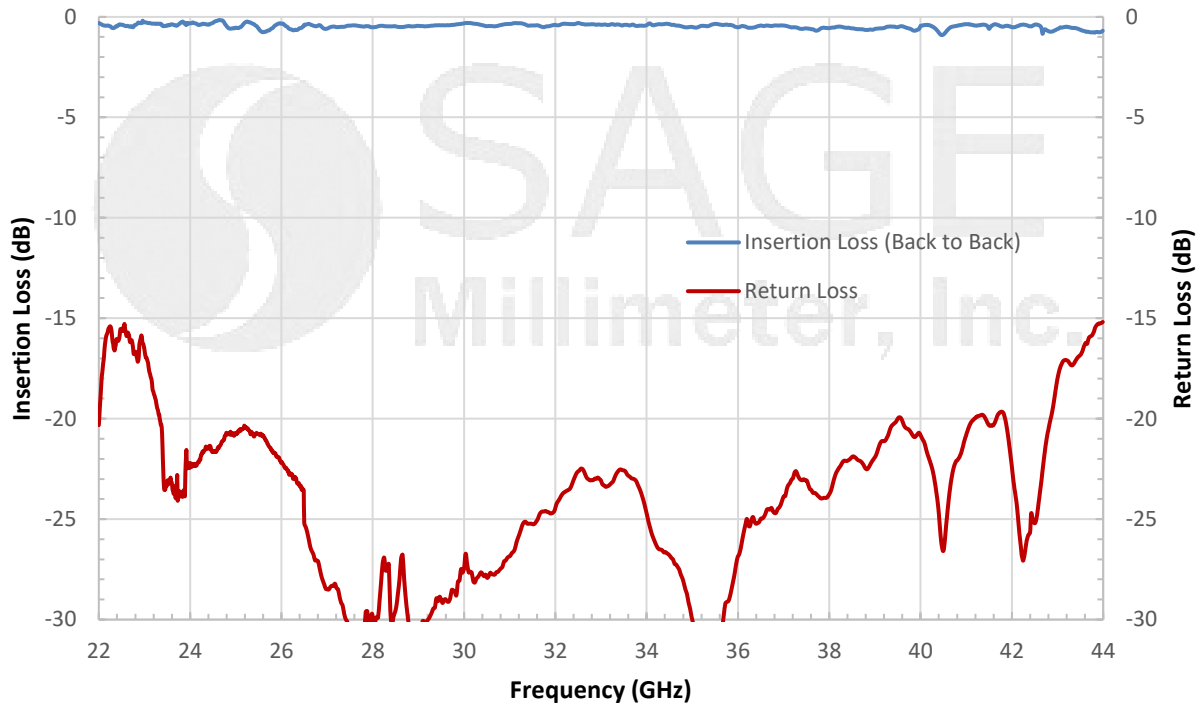
Item	Specification
Waveguide	WR-28 with UG599/U Flange
Coaxial	2.92 mm (K) Female for Model Number: SWC-28KF-R1
Coaxial	2.92 mm (K) Male for Model Number: SWC-28KM-R1
Size	1.00" (L) x 0.75" (S)
Housing Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WC-AR



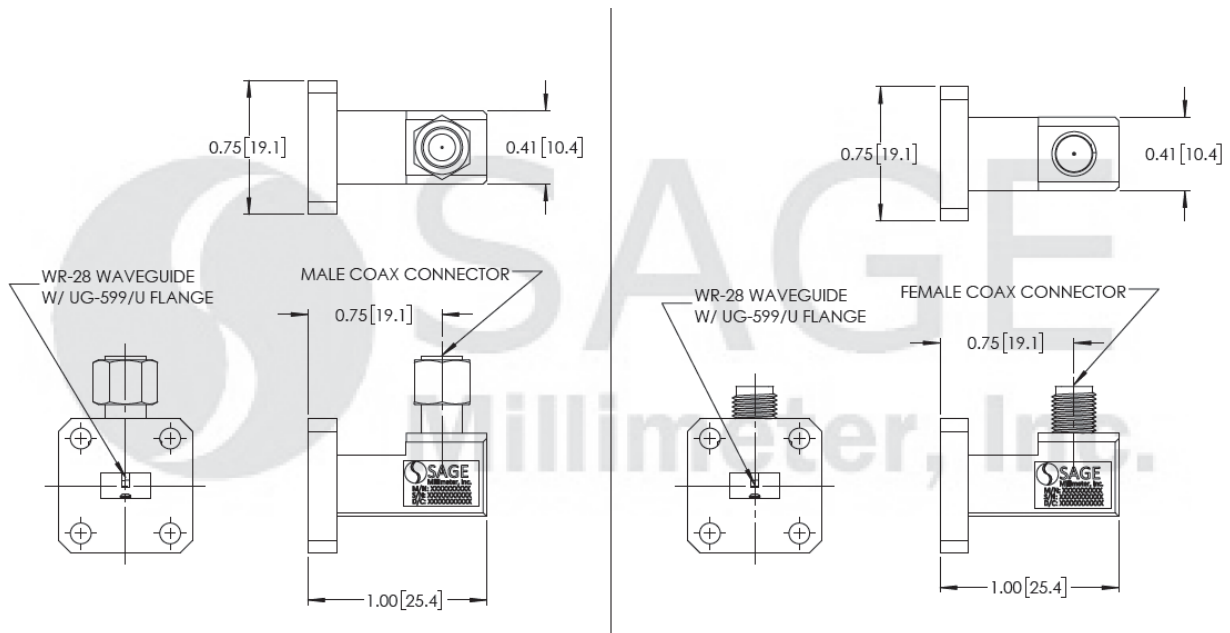
www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505
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Typical Performance vs. Frequency



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 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.**



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