

Ka-Band Waveguide to K Connector Adapter, End Launch, Threaded Hole

Description:

Models SWC-28KF-E1-T and SWC-28KM-E1-T are end launch (180°) 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 adapter offers typical 0.25 dB insertion loss and 20 dB return loss, respectively. The cover flange holes of the adapter are threaded holes to improve the reliabilities for shock and vibration. The right angle (90°) versions are offered under model numbers SWC-28KF-R1-T and SWC-28KM-R1-T.



Features:

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

Applications:

- Test Lab
- Instrumentations
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	26.5 GHz		40.0 GHz
Insertion Loss		0.25 dB	
Return Loss		20 dB	
Power Handling			50 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

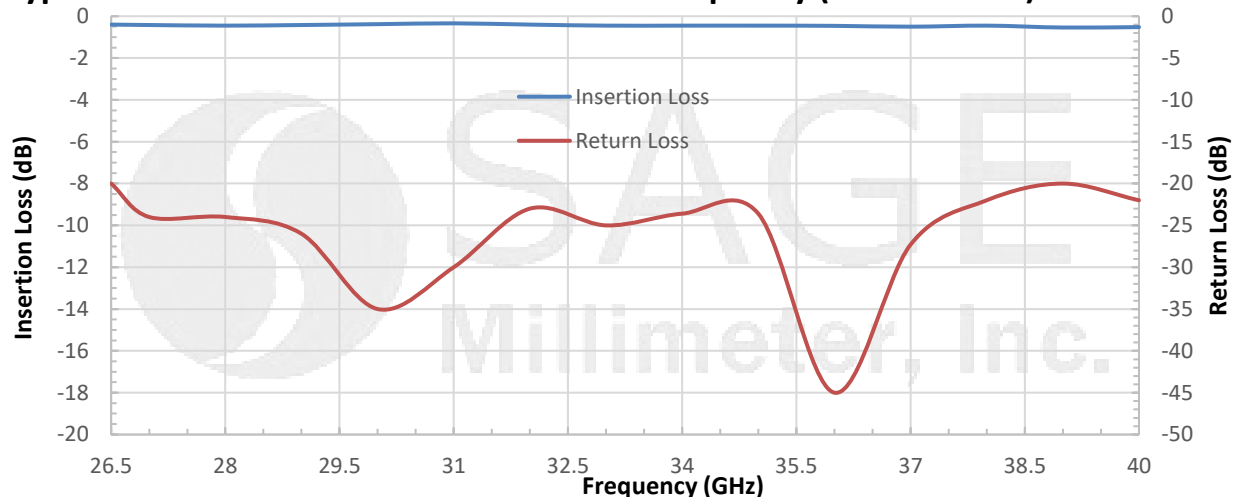
Mechanical Specifications:

Item	Specification
Waveguide	WR-28 with UG599/U Flange with Threaded Holes
Coaxial	2.92 mm (K) Female for Model Number: SWC-28KF-E1-T
Coaxial	2.92 mm (K) Male for Model Number: SWC-28KM-E1-T
Housing Material	Aluminum
Finish	Gold Plated
Weight	0.2 Oz
Size	0.49" (L) x 0.75" (S)
Outline	WC-AE-T

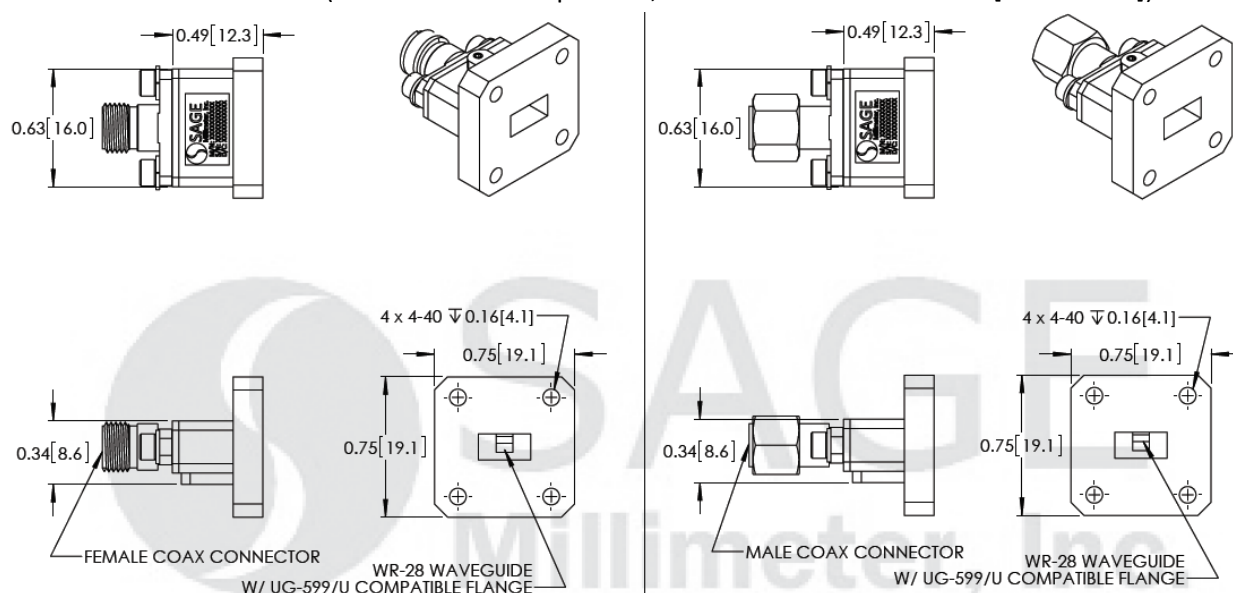


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Typical Insertion Loss and Return Loss vs. Frequency (Back to Back)



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.
- 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-U3, is highly recommended.**

