



WR-51 Band Waveguide to K Connector Adapter, End Launch

Description:

Models SWC-51KF-E1 and SWC-51KM-E1 are end launch (180°) K-Band waveguide to coax adapters that cover the frequency range of 15 to 22 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 right angle (90°) versions are offered under model numbers SWC-51KF-R1 and SWC-51KM-R1.



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	15 GHz		22 GHz
Insertion Loss		0.2 dB	
Return Loss		20 dB	
Power Handling			50 Watts
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

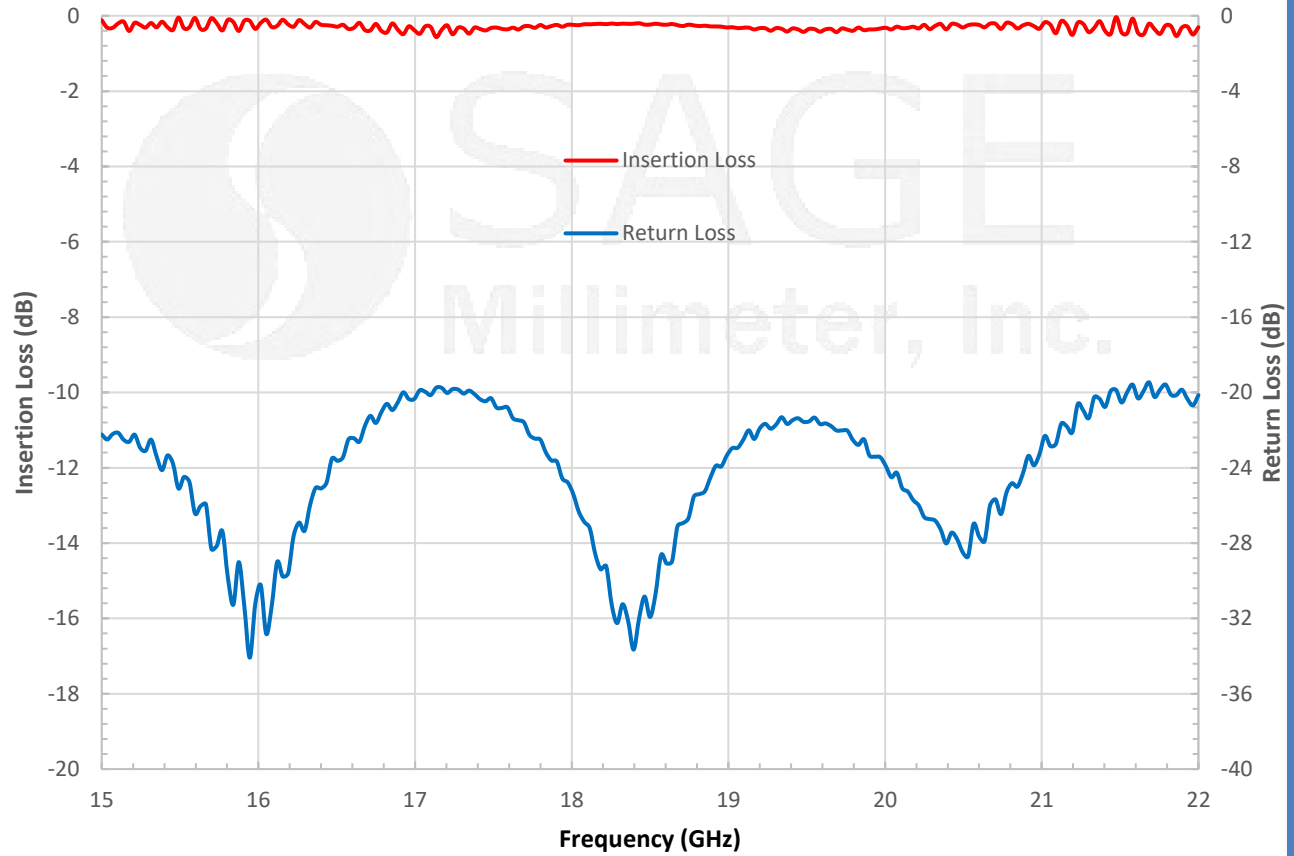
Item	Specification
Waveguide Port	WR-51 Waveguide with Standard Cover Flange
Coaxial Port	2.92 mm (K) Female for Model Number: SWC-51KF-E1
Coaxial Port	2.92 mm (K) Male for Model Number: SWC-51KM-E1
Housing Material	Aluminum
Finish	Gold Plated
Weight	0.5 Oz
Size	1.13" (L) x 1.31" (S) for Model Number: SWC-51KF-E1
Size	1.26" (L) x 1.31" (S) for Model Number: SWC-51KM-E1
Outline	WC-5E



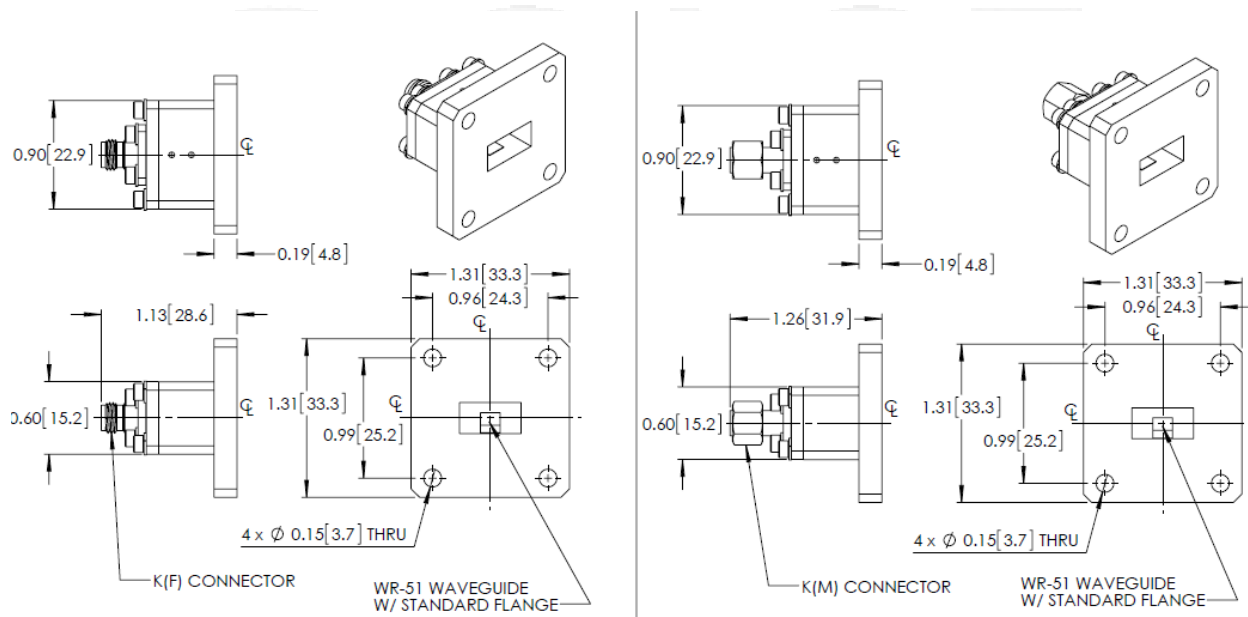


WR-51 Band Waveguide to K Connector Adapter, End Launch

Typical Performance vs. Frequency



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





WR-51 Band Waveguide to K 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.
- 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.**

