

K-Band Waveguide to K Connector Adapter, Right Angle, Thermal Vacuum Safe

Description:

Models SWC-42KF-R1-V and SWC-42KM-R1-V are right angle (90°) K-Band waveguide to coax adapters that cover the frequency range of 18 to 26.5 GHz. They are designed and manufactured for instrumentation grade quality and thermal vacuum compatibility, allowing for an efficient transition between the rectangular waveguide and 2.92 mm (K) coax connector.



Features:

- Thermal Vacuum Safe
- Broad Band Coverage
- Lower Insertion Loss
- Instrumentation Grade
- DC Short Circuit

Applications:

- Thermal Vacuum Chamber
- Test Lab
- Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	18 GHz		26.5 GHz
Insertion Loss		0.2 dB	
Return Loss		20 dB	
Power Handling			50 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Parameter	
Waveguide	WR-42 with UG-595/U Flange	
Coaxial	2.92 mm (K) Female for Model Number: SWC-42KF-R1-V	
Coaxial	2.92 mm (K) Male for Model Number: SWC-42KM-R1-V	
Size	0.97" (L) x 0.88" (S) for Model Number: SWC-42KF-R1-V	
Size	1.10" (L) x 0.88" (S) for Model Number: SWC-42KM-R1-V	
Housing Material	Aluminum	
Finish	Gold Plated	
Weight	0.4 Oz	
Outline	WC-KR	

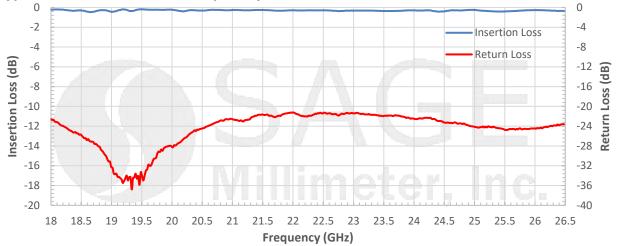


www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com

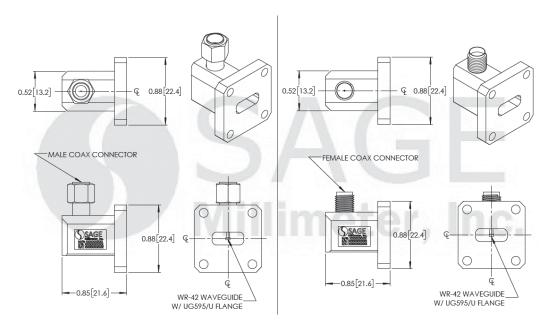


K-Band Waveguide to K Connector Adapter, Right Angle, Thermal Vacuum Safe

Typical Performance 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 \pm 0.02 Nm), should be applied. **SAGE Millimeter** torque wrench, model SCH-08008-U3, is highly recommended.



www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com