



## Ka-Band Waveguide to K Connector Adapter, Right Angle, Non-Standard Flange

### Description:

**Models SWC-28KF-R1-1530** is a right angle (90°) Ka-Band waveguide to coax adapters that cover the frequency range of 26.5 to 40 GHz. The waveguide port is WR-28 waveguide with a non-standard UG-1530/U square flange. It's designed and manufactured for instrumentation grade quality but offered at a commercial grade price, allowing for an efficient transition between the rectangular waveguide and female 2.92 mm (K) coax connector. The end launch (180°) versions is offered under model numbers SWC-28KF-E1-1530.



### Features:

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

### Applications:

- Test Lab
- Instrumentations
- Sub-assemblies

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	26.5 GHz		40 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:

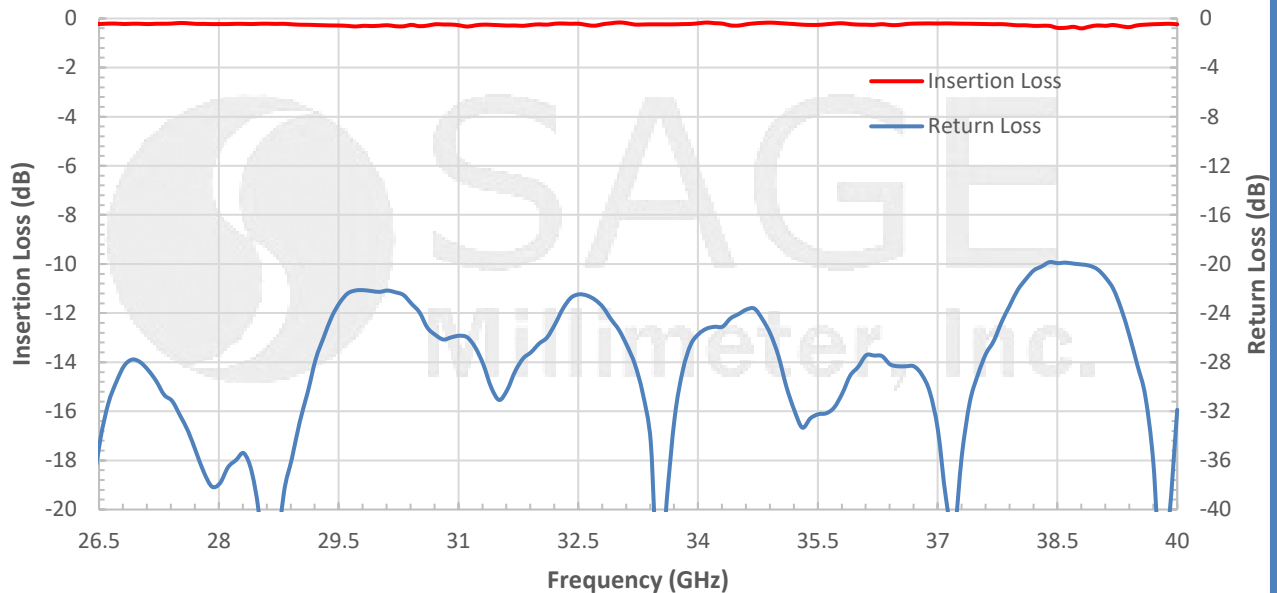
Item	Specification
Waveguide Port	WR-28 Waveguide with a Non-Standard UG-1530/U Flange
Coaxial	2.92 mm (K) Female Connector
Housing Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Size	1.00" (L) x 0.75" (S)
Outline	WC-AR-1530



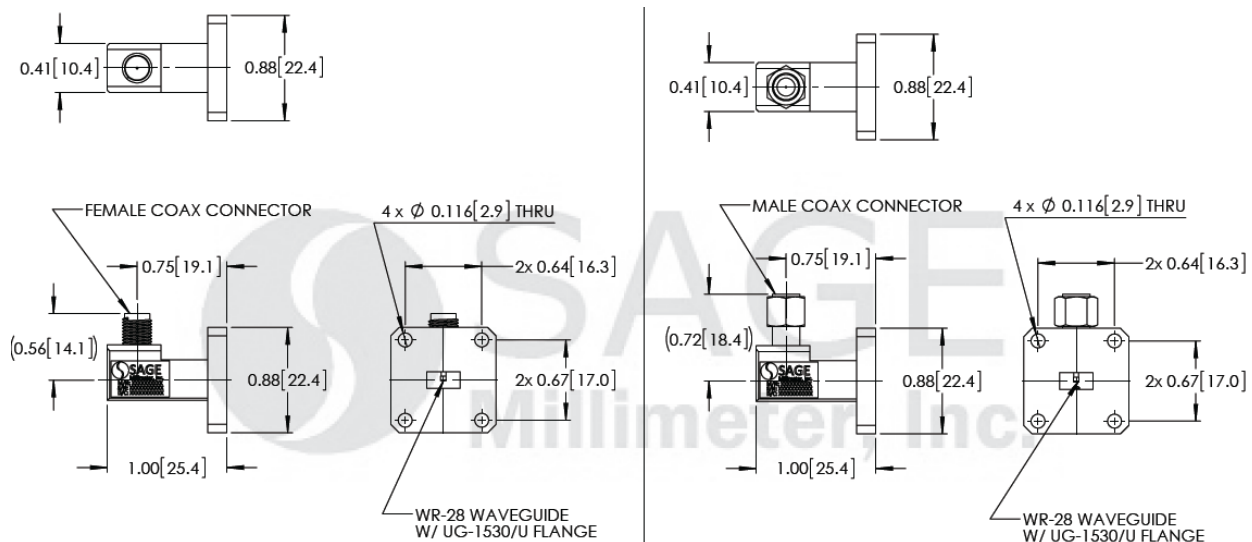


## Ka-Band Waveguide to K Connector Adapter, Right Angle, Non-Standard Flange

### 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.
- 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 possible device damage.
- Proper torque,  $8.0 \pm 0.15$  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