

## Ka-Band Waveguide to 2.92 mm Connector Adapter, Right Angle

### Description:

**SWC-28KF-R1-WPC** is a right angle (90°) Ka-Band waveguide to coax adapters that cover the frequency range of 26.5 to 40 GHz. It is 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.



### 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	1 dB
Return Loss	14 dB	17 dB	
Power Handling			20 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

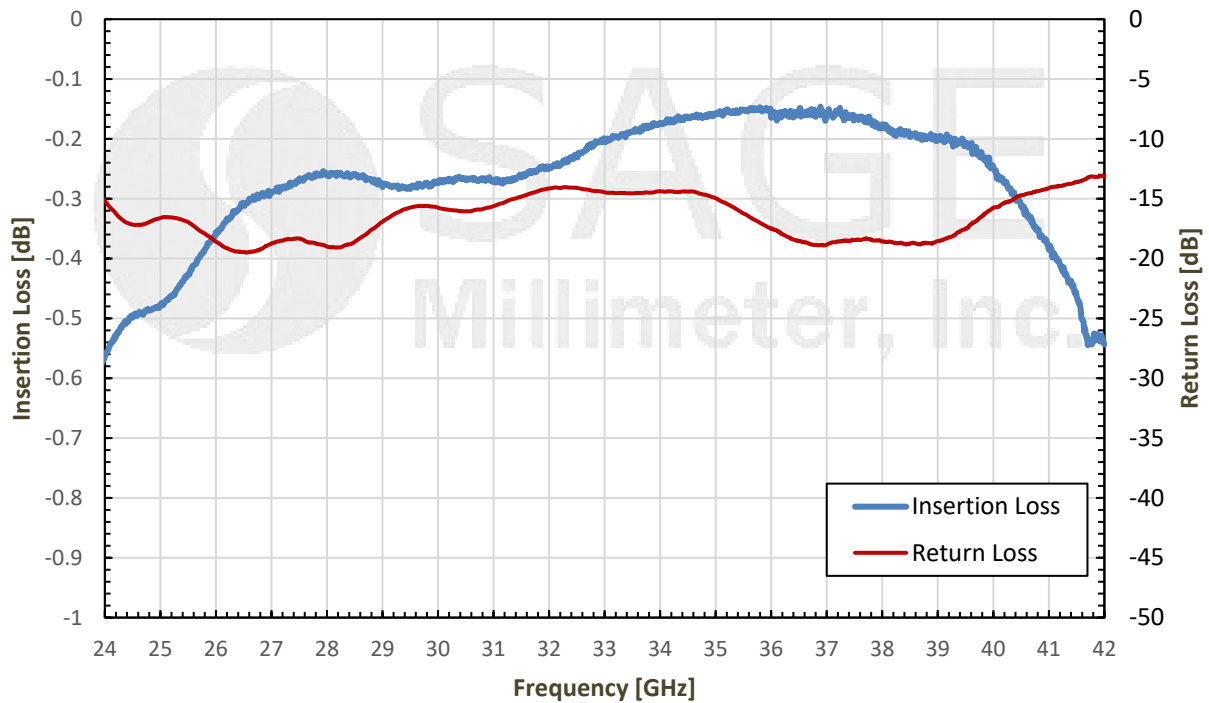
### Mechanical Specifications:

Item	Specification
Waveguide	WR-28 with UG599/U Flange
Coaxial	2.92 mm (K) Female
Size	1.00" (L) x 0.75" (S)
Housing Material	Aluminum
Finish	Gold Plated
Weight	0.3 Oz
Outline	WC-AR

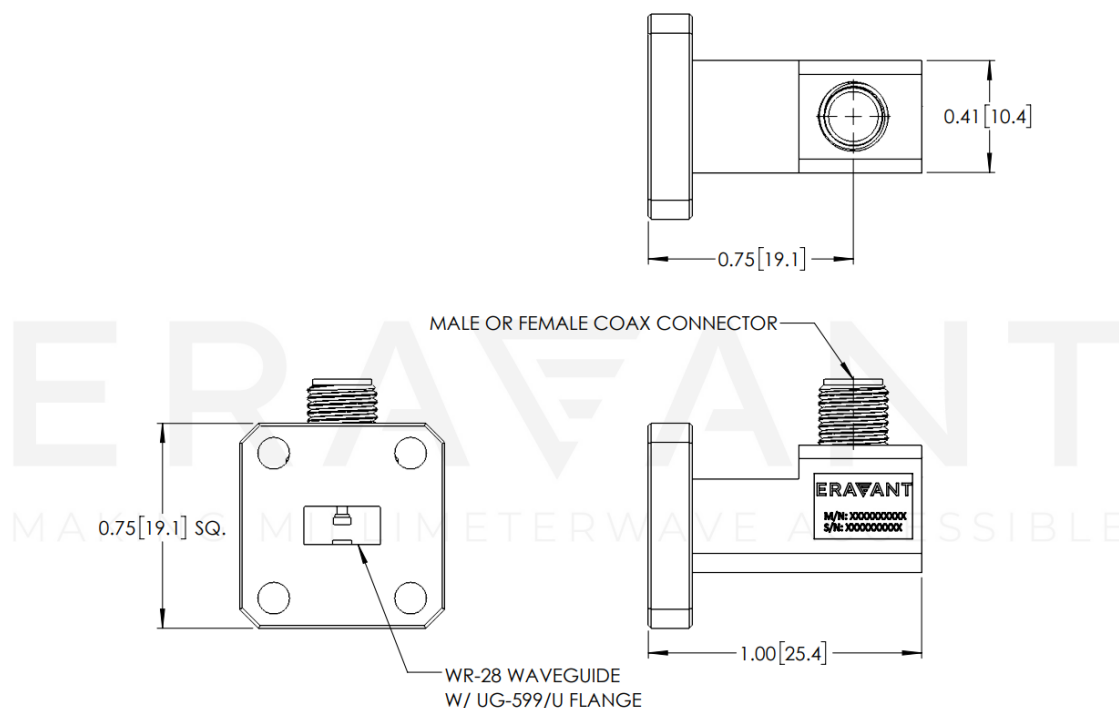


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### Typical Performance vs. Frequency



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



www.eravant.com | 501 Amapola Avenue, Torrance, CA 90501  
 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: support@eravant.com



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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.
- Eravant 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,  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**

