

## WR-15 Waveguide to 1.85mm Connector Adapter, Right Angle

### Description:

**Model SWC-15VM-R1-WP** is a right angle (90°) WR-15 waveguide to coax adapter that covers the frequency range of 50 to 70 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 1.85 mm (V) coax connector. Eravant also offers the female connector right angle version (**SWC-15VF-R1**) and both male and female connector end launch (180°) versions (**SWC-15VF-E1**, **SWC-15VM-E1**).



### Features:

- Broadband Coverage
- Low Insertion Loss and VSWR
- Instrumentation Grade
- DC Open Circuit

### Applications:

- Test Lab
- Instrumentations
- Sub-assemblies

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	50 GHz		70 GHz*
Insertion Loss*		0.7 dB	1.0 dB
Return Loss	13 dB	16 dB	
Power Handling			40 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

\* The adapter can cover up to 75 GHz with slight performance degradation due to the frequency limitations of the 1.85 mm (V) coaxial connector.

\*Insertion Loss is tested back-to-back with a male and female adapter; the result is divided by 2.

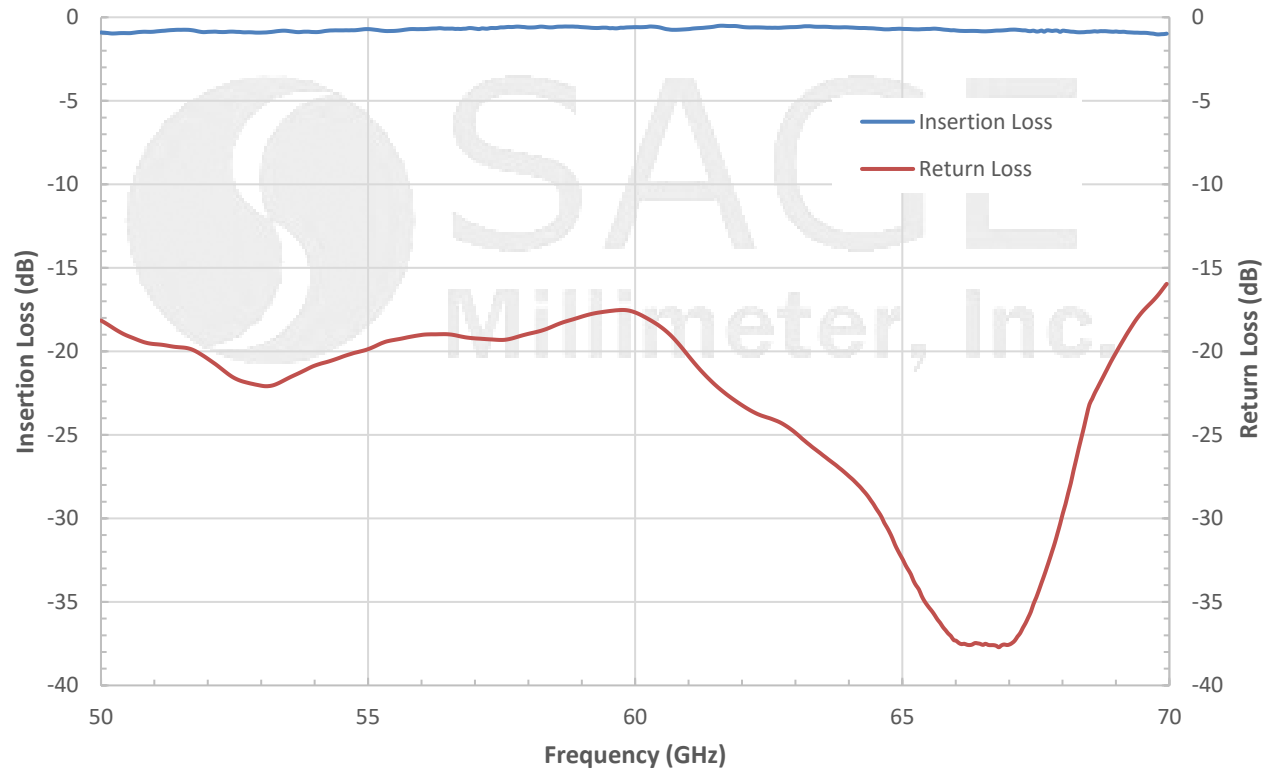
### Mechanical Specifications:

Item	Parameter
Waveguide Port	WR-15 Waveguide with UG-385/U Anti-Cocking Flange
Coaxial Port	1.85 mm (V) Male Connector
Material	Aluminum
Finish	Gold Plated
Weight	0.4 oz.
Outline	WC-VR-A-1.0

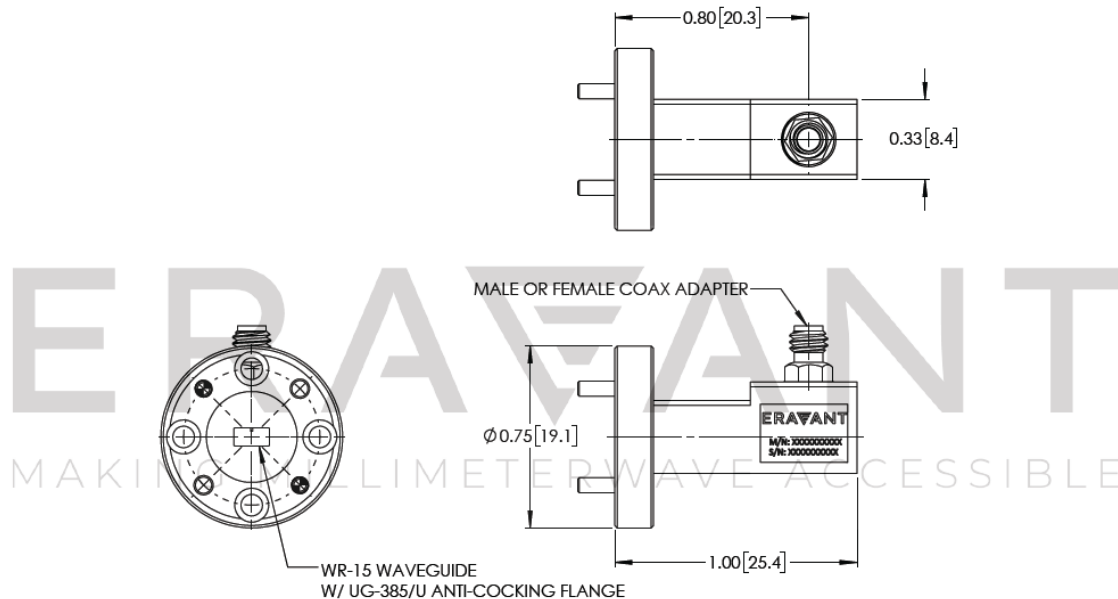


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## Typical Performance Vs Frequency



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



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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. **Eravant torque wrench (SCH-08008-S1) is highly recommended.**

