

SWC-15VF-R1-2-WP

V-Band Waveguide to 1.85 mm Connector Adapter,
Right Angle

SWC-15VF-R1-2-WP is a right angle (90°) V-Band waveguide to coax adapter that covers the frequency range of 50 to 70 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 1.85 mm coax connector. The end launch (180°) versions are offered under model numbers **SWC-15VF-E1** and **SWC-15VM-E1**.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	50 GHz		70 GHz*
Insertion Loss		1.3 dB	
Return Loss		14 dB	
Power Handling			40 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

* Operating Frequency is limited by the 1.85 mm connector.

Mechanical Specifications:

Item	Specification
Waveguide Port	WR-15 with UG-385/U Anti-Cocking Flange
Coaxial Port	1.85 mm Female for Model Number: SWC-15VF-R1
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WC-VR-A

FEATURES

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

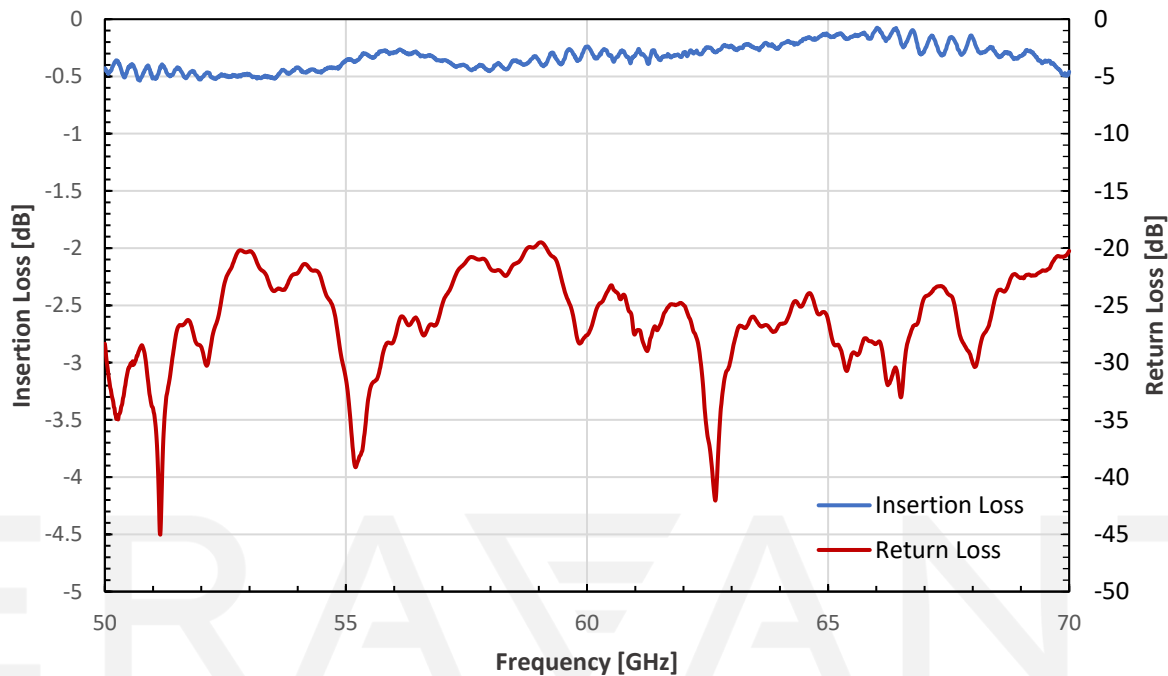
APPLICATIONS

- Test Lab
- Instrumentations
- Sub-assemblies

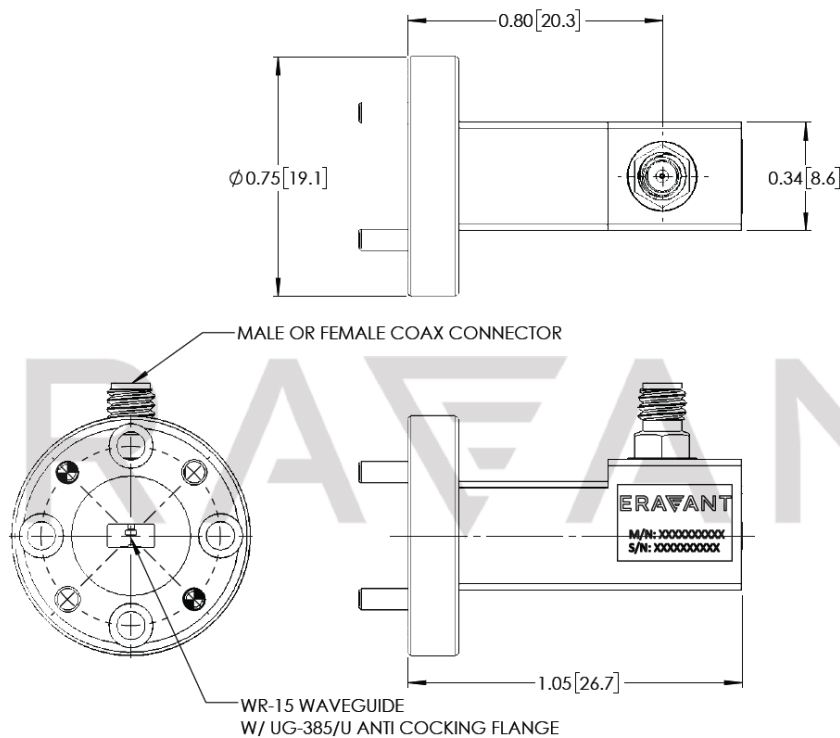


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Typical Measured Performance vs. Frequency



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.
- 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 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be used. **Eravant torque wrench, model SCH-08008-S1, is highly recommended.**

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