

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

Description:

Models **SWC-15VF-R1-1.0** and **SWC-15VM-R1-1.0** are right angle (90°) V-Band waveguide to coax adapters that cover 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 coax connector.



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 dB
Return Loss	13 dB	16 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.

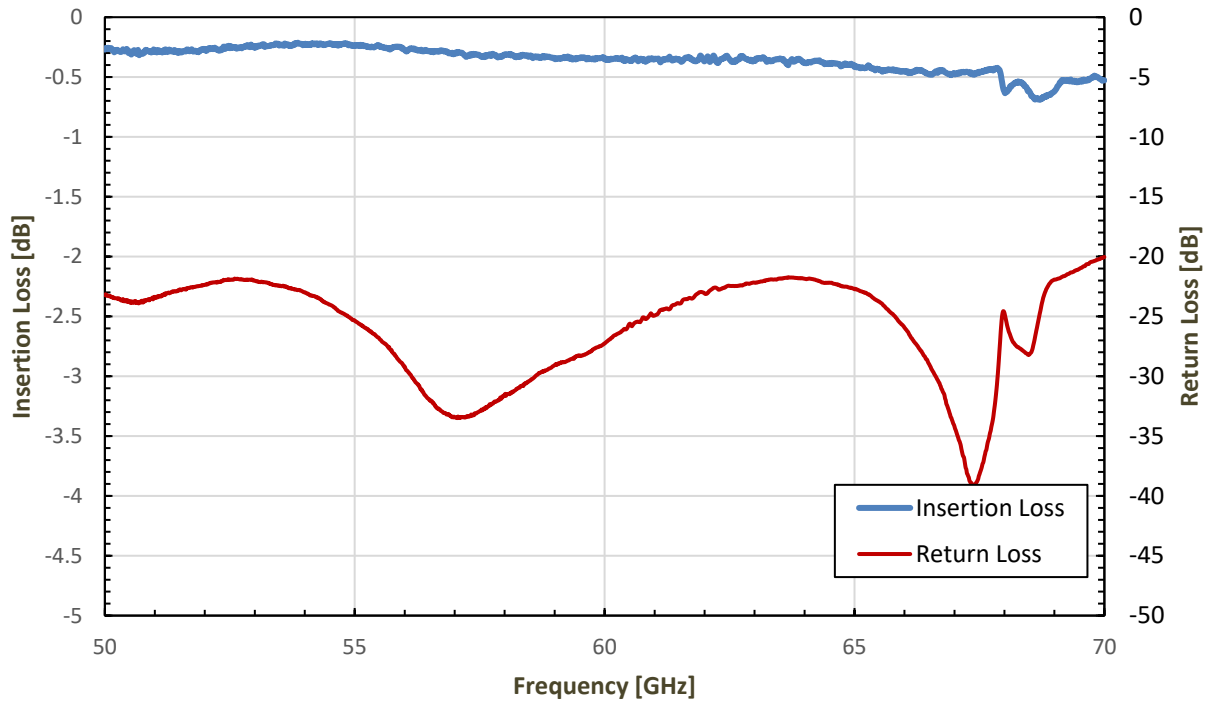
Mechanical Specifications:

Item	Parameter
Waveguide Port	WR-15 with UG-385/U Anti-Cocking Flange
Coaxial Port	1.85 mm Female for Model Number: SWC-15VF-R1-1.0
	1.85 mm Male for Model Number: SWC-15VM-R1-1.0
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WC-VR-A-1.0

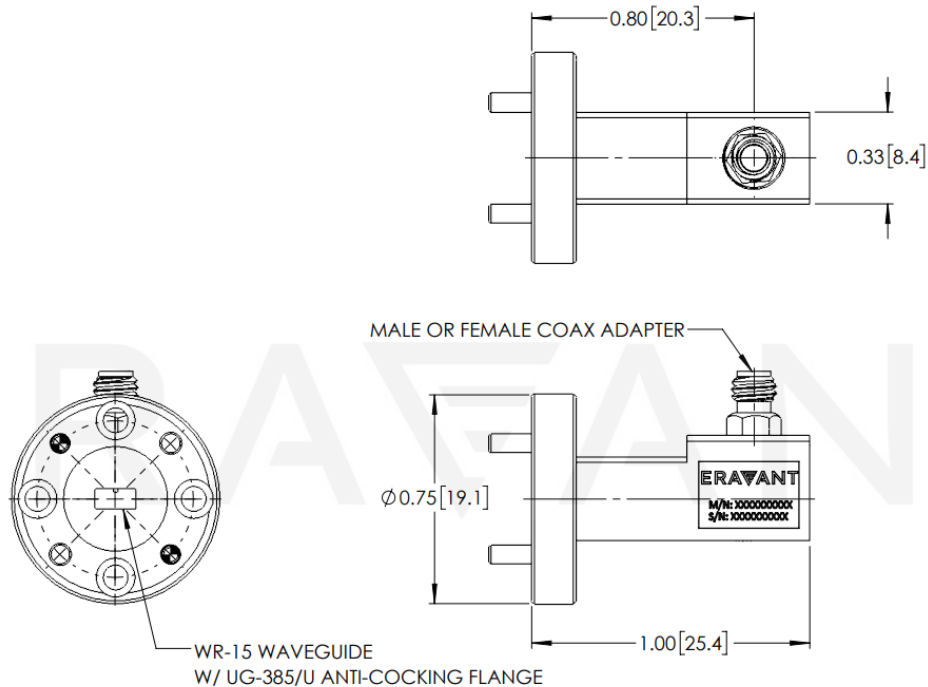


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Typical Performance vs. Frequency



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



www.eravant.com | 501 Amapola Ave, 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 ± 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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