

SWC-15EF-R1 and SWC-15EM-R1

V-Band Waveguide to 1.35 mm Connector Adapter, Right Angle

SWC-15EF-R1 and **SWC-15EM-R1** are right angle (90°) V-Band waveguide to coax adapters that cover the frequency range of 50 to 75 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 1.35 mm coax connector. The end launch (180°) versions are offered under model numbers SWC-15EF-E1 and SWC-15EM-E1.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	50 GHz		75 GHz
Insertion Loss*		0.5 dB	
Return Loss		15 dB	
Power Handling			10 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

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

Mechanical Specifications:

Item	Specification
Waveguide	WR-15 Waveguide with UG-385/U Anti-Cocking Flange
Coaxial Port	1.35 mm (E) Female for Model Number: SWC-15EF-R1
Coaxial Port	1.35 mm (E) Male for Model Number: SWC-15EM-R1
Material	Aluminum
Finish	Gold Plated
Weight	0.3 Oz
Outline	WC-VR-A

ECCN

EAR99

FEATURES

- Full Waveguide Band Coverage
- Lower Insertion Loss and VSWR
- Instrumentation Grade
- DC Open Circuit

APPLICATIONS

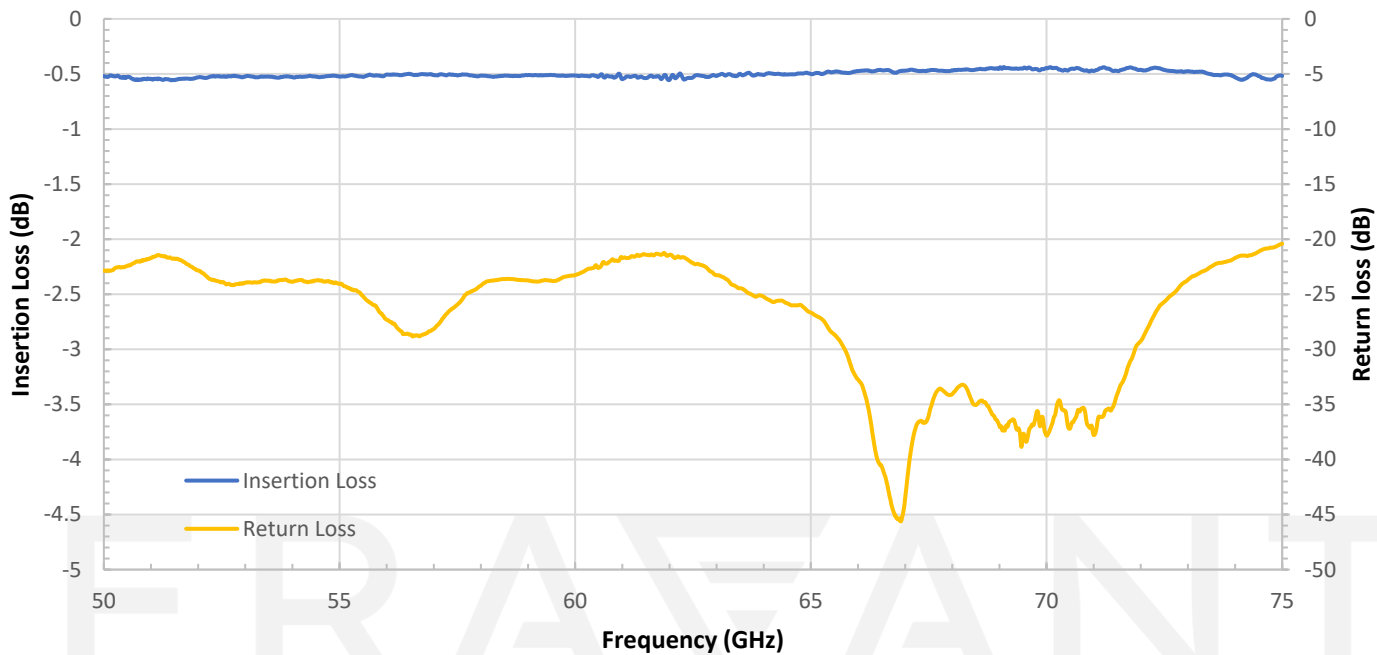
- Test Lab
- Instrumentations
- Sub-assemblies

SUPPLEMENTAL DETAILS

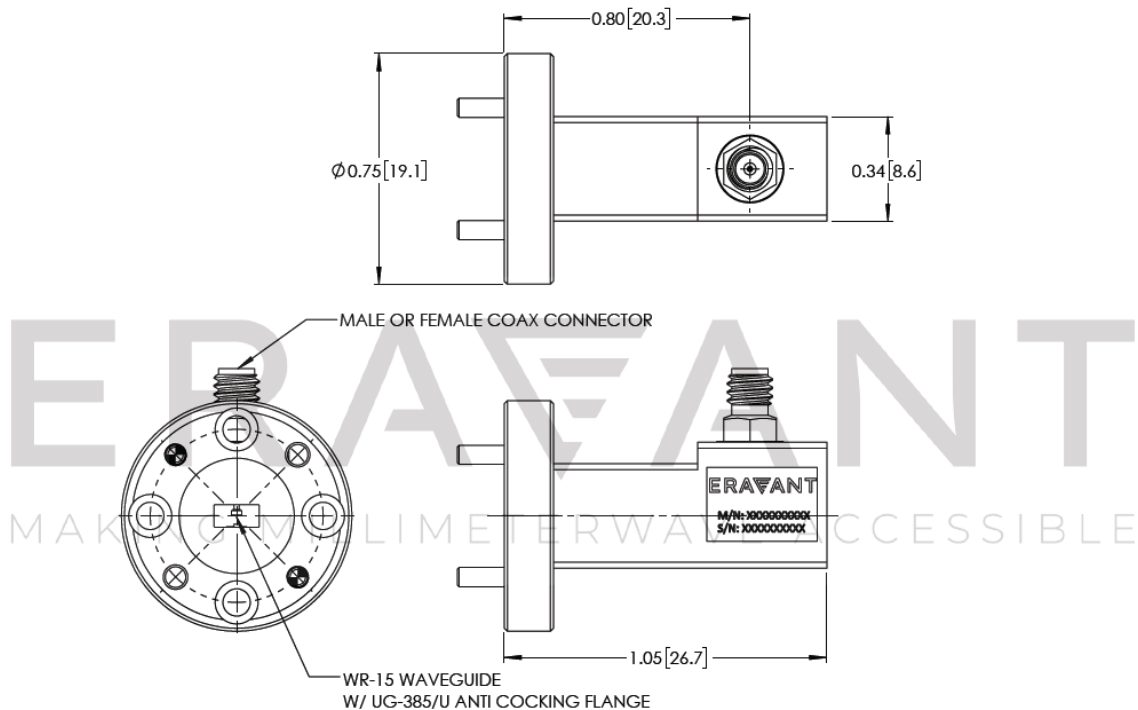


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Typical Performance vs Frequency



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



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NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- 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 or destroy the unit.
- For 1 mm connectors proper torque should be applied: 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm). Torque wrench model SCH-06004-S1 is highly recommended. • For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model SCH-08008-S1 is highly recommended.

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