

SWC-12VF-R1 and SWC-12VM-R1

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

SWC-12VF-R1 and SWC-12VM-R1 are right angle (90°) E-Band waveguide to coax adapters that cover the frequency range of 60 to 72 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. The end launch (180°) versions are offered under model numbers SWC-12VF-E1 and SWC-12VM-E1.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	60 GHz		72 GHz
Insertion Loss		0.8 dB	1.2 dB
Return Loss	12 dB	14 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-12 with UG-387/U Anti-Cocking Flange
Coaxial	1.85 mm (V) Female for Model Number: SWC-12VF-R1
Coaxial	1.85 mm (V) Male for Model Number: SWC-12VM-R1
Size	1.05" (L) x 0.75" (D)
Housing Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WC-EVR-A

ECCN

EAR99

FEATURES

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

APPLICATIONS

- Test Lab
- Instrumentations
- Sub-assemblies

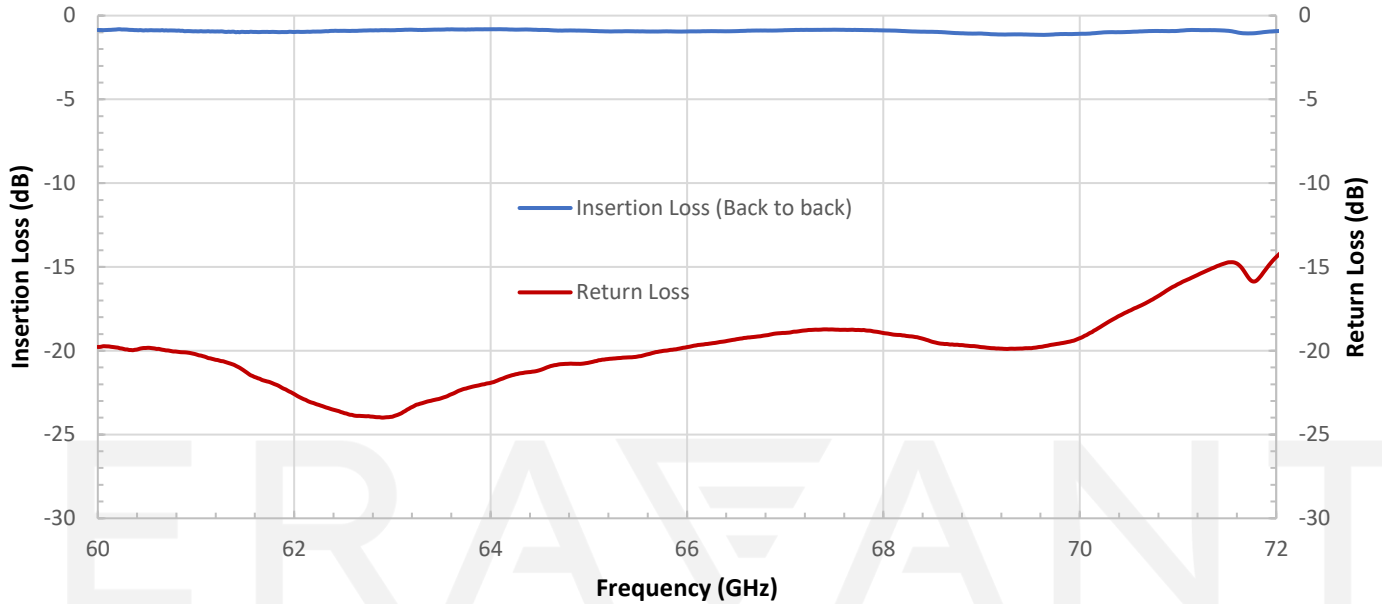
SUPPLEMENTAL DETAILS



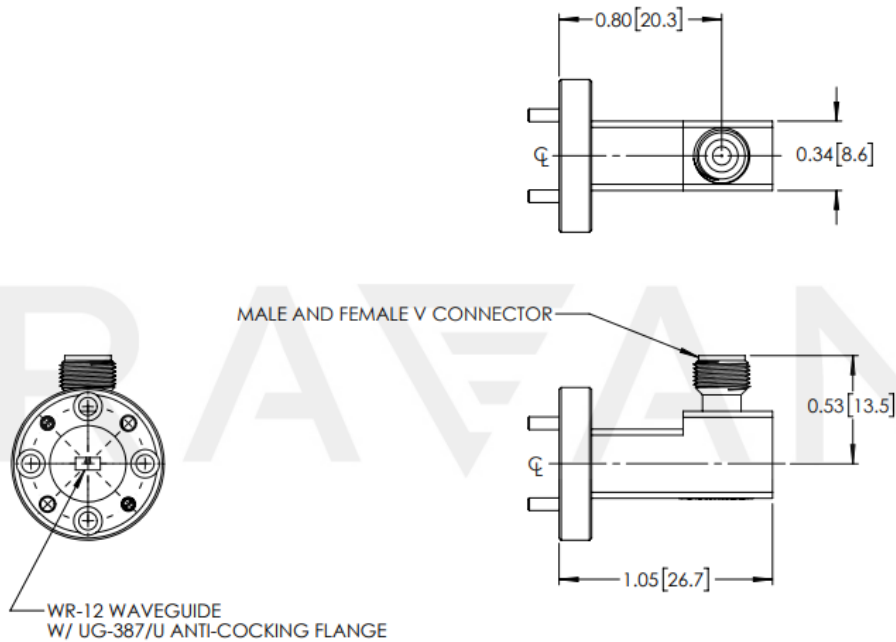
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Typical Performance vs. Frequency



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:

- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.
- 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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