SWC-12EF-R1 and SWC-12EM-R1

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

SWC-12EF-R1 and SWC-12EM-R1 are right angle (90°) E-Band waveguide to coax adapters that cover the frequency range of 60 to 90 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 SWC12EF-E1 and SWC-12EM-E1.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	60 GHz		90 GHz
Insertion Loss*		1.2 dB	1.5 dB
Return Loss	12 dB	15 dB	
Power Handling			20 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

*Insertion loss is tested back-to-back with 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 Port	1.35 mm Female for Model Number: SWC-12EF-R1
Coaxial Port	1.35 mm Male for Model Number: SWC-12EM-R1
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WC-ER-A

ECCN

EAR99

FEATURES

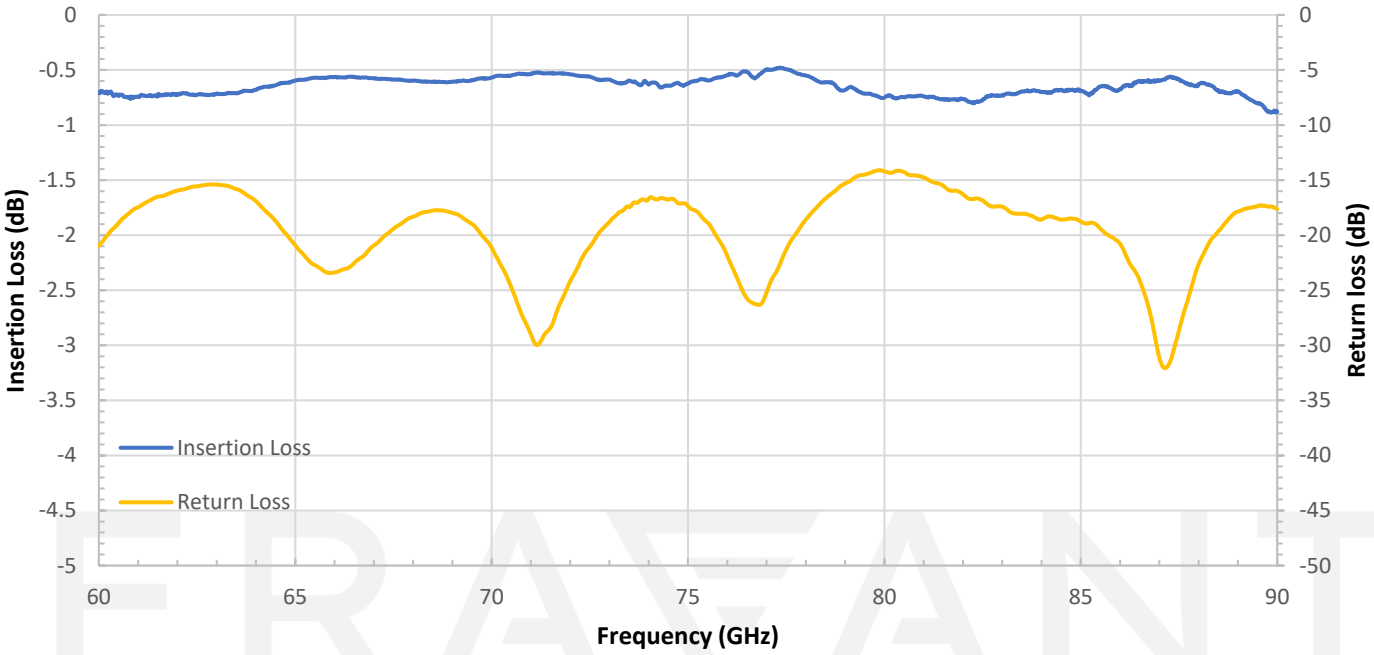
- Full Waveguide Band Coverage
- Lower Insertion Loss and VSWR
- Instrumentation Grade
- DC Open Circuit

APPLICATIONS

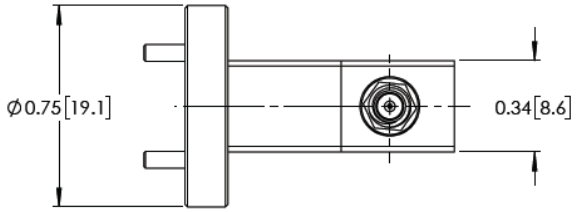
- Test Lab
- Instrumentations
- Sub-assemblies

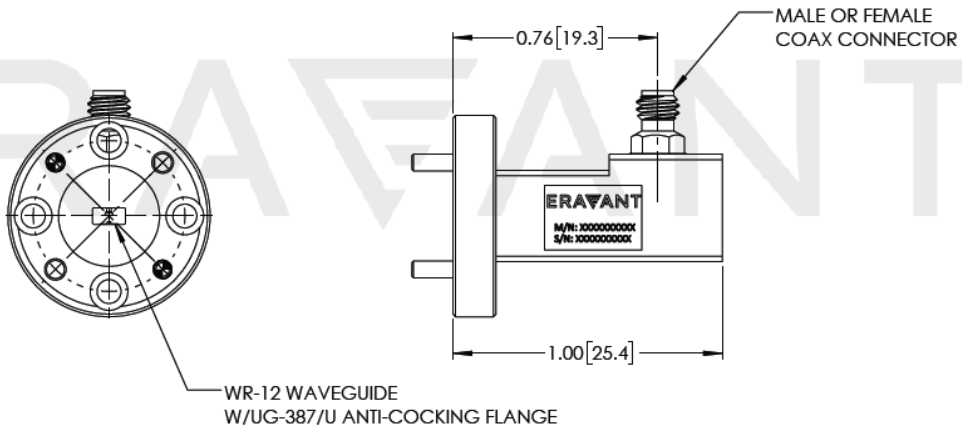
SUPPLEMENTAL DETAILS

Typical Performance vs Frequency



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





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.
- Proper torque should be applied to prevent damage to the unit: 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm).

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