SWC-121F-E1-WR and SWC-121M-E1-WR Rev. 1.1

E-Band Waveguide to Coax Panel Mount Adapter, End Launch

Description:

Models SWC-121F-E1-WR and SWC-121M-E1-WR are end launch (180°) E-Band waveguide to coax panel mount adapters that cover the frequency range of 60 to 90 GHz. They are designed and manufactured for panel mount instrumentation applications and allow for an efficient transition between the rectangular waveguide and 1 mm coax connector. These adapters are also specially designed to be weather resistant.



Features:

- Full Waveguide Band Coverage
- Lower Insertion Loss and VSWR
- Instrumentation Grade
- DC Short Circuit
- Weather Resistant

Electrical Specifications:

Applications:

- Test Labs
- Instrumentations
- Communication Systems

Parameter	Minimum	Typical	Maximum
Frequency Range	60 GHz		90 GHz
Insertion Loss*		1.0 dB	1.2 dB
Return Loss	12 dB	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.

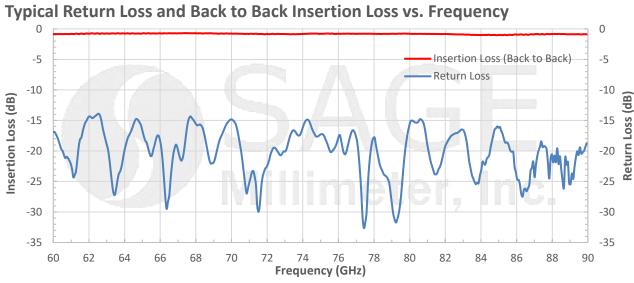
Mechanical Specifications:

Item	Specification	
Waveguide	WR-12 with UG-387/U Flange with O-Ring	
Coaxial	1 mm Female for Model Number: SWC-121F-E1-WR	
Coaxial	1 mm Male for Model Number: SWC-121M-E1-WR	
Size	1.15" (L) x 1.33" (Ø) for Model Number: SWC-121F-E1-WR	
Size	1.22" (L) x 1.33" (Ø) for Model Number: SWC-121M-E1-WR	
Body Material	Aluminum	
Flange Material	Brass	
Finish	Gold Plated	
Weight	2.0 Oz	
Outline	WC-EE-WR	

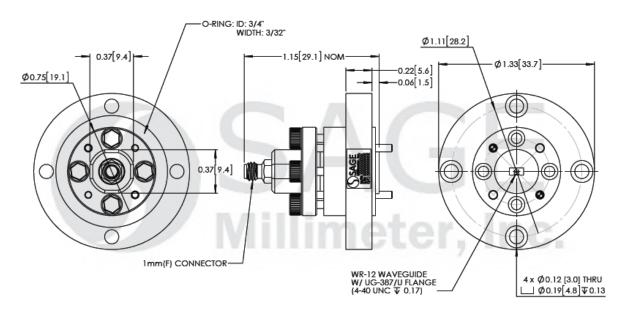


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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



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.
- SAGE Millimeter, Inc. 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, 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm), should be used. SAGE Millimeter torque wrench, model SCH-06004-S1, is highly recommended.



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