

E-Band Waveguide to 1.0 mm Connector Adapter, Right Angle

Description:

Models SWC-121F-R1 and SWC-121M-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 1.0 mm coax connector. The end launch (180°) versions are offered under model numbers SWC-121F-E1 and SWC-121M-E1.



Features:

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

Applications:

- Test Lab
- Instrumentations
- Sub-assemblies

Electrical Specifications:

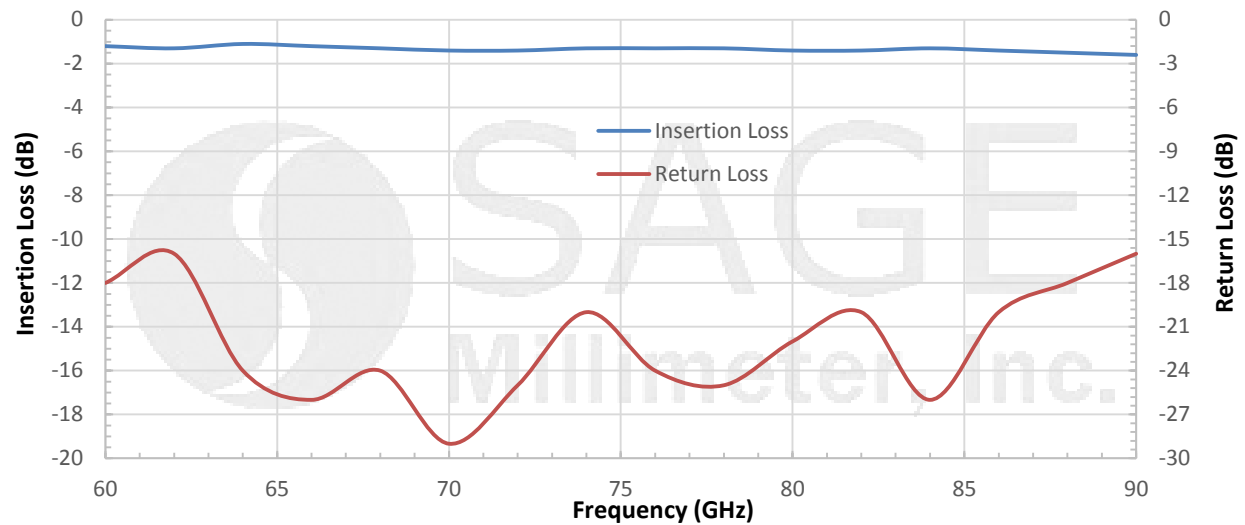
| Parameter | Minimum | Typical | Maximum |
|-----------------|---------|---------|-----------|
| Frequency Range | 60 GHz | | 90 GHz |
| Insertion Loss | | 0.6 dB | |
| Return Loss | | 14 dB | |
| Power Handling | | | 10 W (CW) |

Mechanical Specifications:

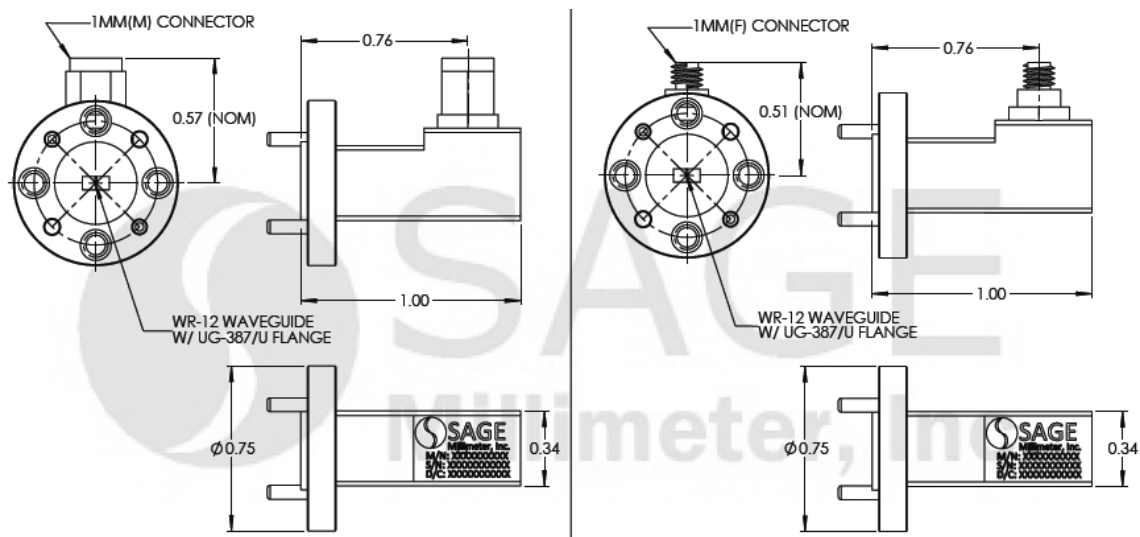
| Item | Specification |
|------------------|---|
| Waveguide | WR-12 with UG387/U Flange |
| Coaxial | 1.0 mm Female for Model Number: SWC-121F-R1 |
| Coaxial | 1.0 mm Male for Model Number: SWC-121M-R1 |
| Size | 1.05" (L) x 0.75" (D) |
| Housing Material | Aluminum |
| Finish | Gold Plated |
| Weight | 0.4 Oz |
| Outline | WC-ER |

E-Band Waveguide to 1.0 mm Connector Adapter, Right Angle

Typical Insertion Loss and Return Loss vs. Frequency (Back to Back)



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



Note:

- All data are presented using a limited sample lot, actual data may vary unit to unit.
- 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.**

www.sage-millimeter.com | Phone: +86-21- 51870044 | Fax: 6415 8292 | Email: info@molexy.com
15Floor, Suit B, Technology Building, Yishan Road 705, XuHui District, Shanghai, 200233, China