



WR-112 Waveguide to N Connector Adapter, End Launch

Description:

Models **SWC-112NF-E7** and **SWC-112NM-E7** are end launch (180°) WR-112 waveguide to N connector adapters that cover the frequency range of 7 to 10 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 N connector. The right angle (90°) versions are offered under model numbers **SWC-112NF-R7** and **SWC-112NM-R7**.



Features:

- Full Waveguide Band Coverage
- Low Insertion Loss
- Instrumentation Grade
- DC Short Circuit

Applications:

- Test Lab
- Instrumentation
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	7.0 GHz		10 GHz
Insertion Loss		0.2 dB	
Return Loss		20 dB	
Power Handling			150 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

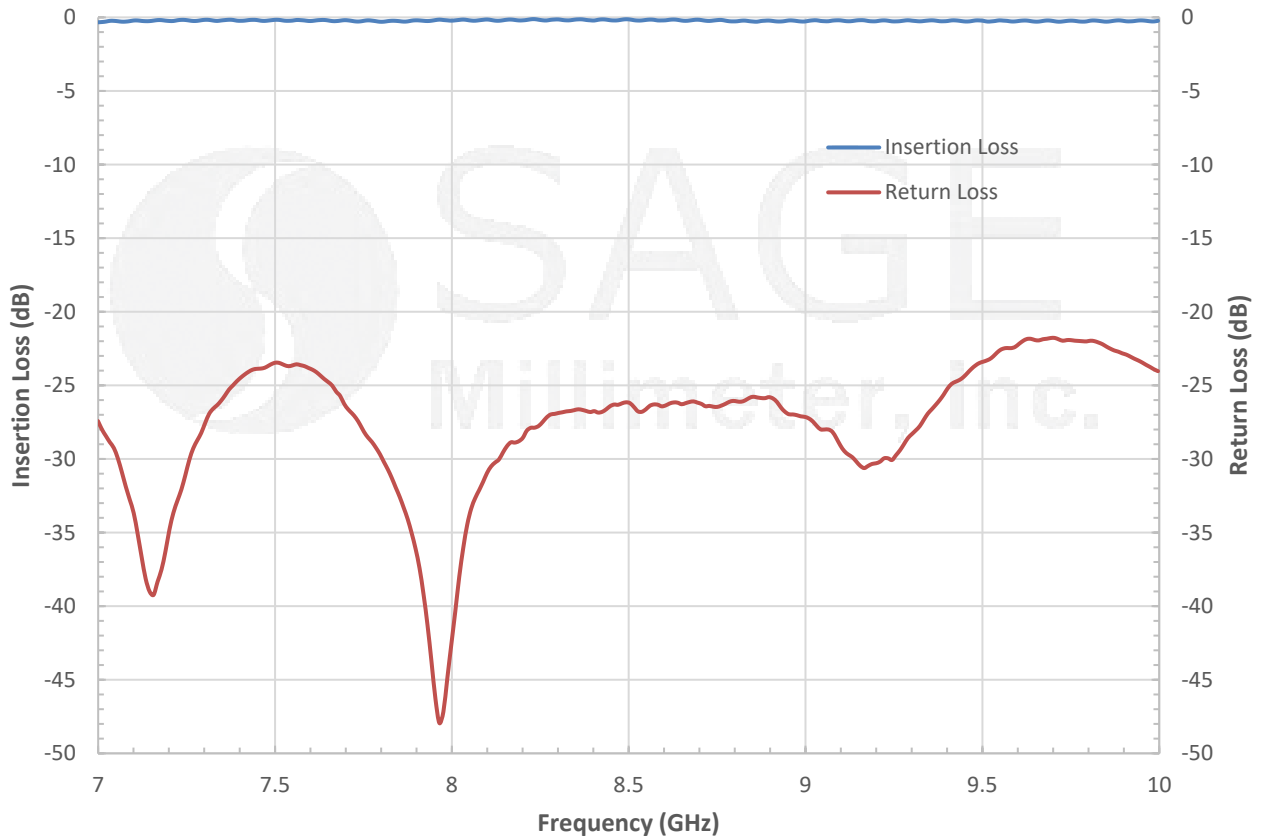
Item	Specification
Waveguide Port	WR-112 Waveguide with UG-51/U Flange
Coaxial Port	N (F) for Model Number: SWC-112NF-E7
	N (M) for Model Number: SWC-112NM-E7
Material	Aluminum
Inner Finish	Silver Plated
Outer Finish	Black Paint
Weight	3.1 oz.
Outline	WC-HE-SX1



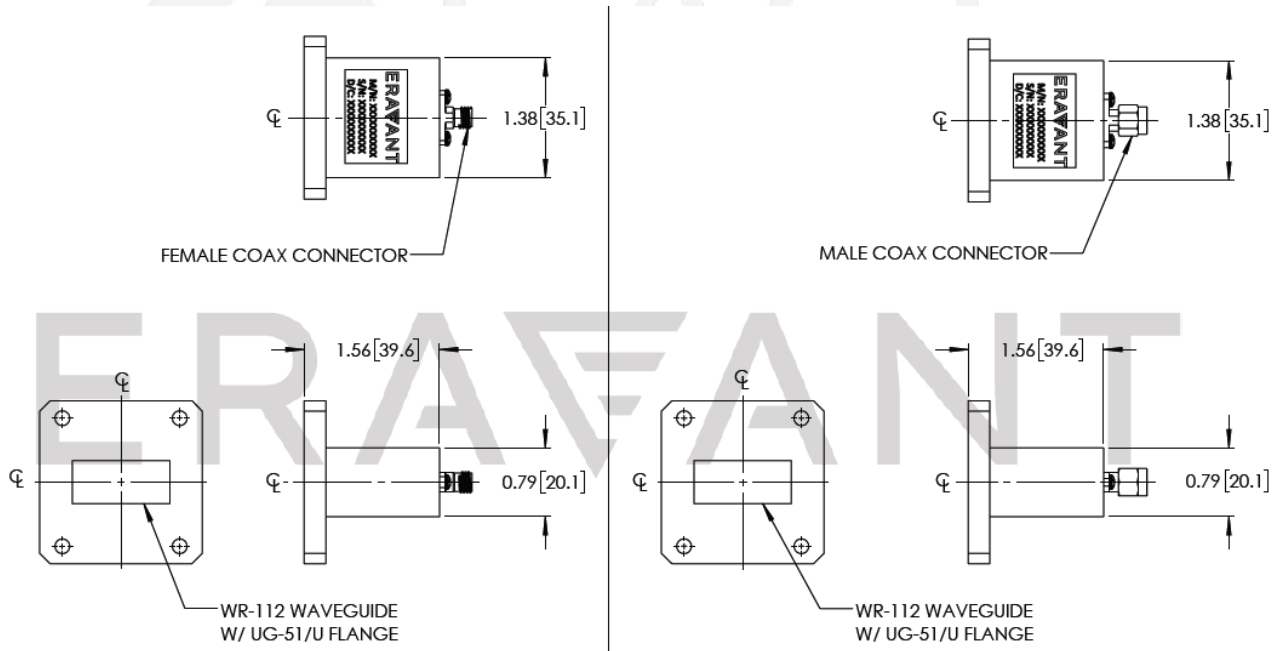


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Typical Insertion Loss and Return Loss vs Frequency



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





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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 possible device damage.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**

