

SWC-112NF-R7 and SWC-112NM-R7

WR-112 Waveguide to N Connector Adapter, Right Angle

Models **SWC-112NF-R7** and **SWC-112NM-R7** are right angle (90°) 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 the N connector. The end launch (180°) versions are offered under model numbers SWC-112NF-E7 and SWC-112NM-E7.



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	WR-112 Waveguide with UG-51/U Flange
Coaxial Port	N (F) for Model Number: SWC-112NF-R7
Coaxial Port	N (M) for Model Number: SWC-112NM-R7
Material	Aluminum
Inner Finish	Silver Plated
Outer Finish	Black Paint
Weight	2.3 Oz
Outline	WC-HR-SX1

ECCN

EAR99

FEATURES

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

APPLICATIONS

- Test Lab
- Instrumentations
- Sub-assemblies

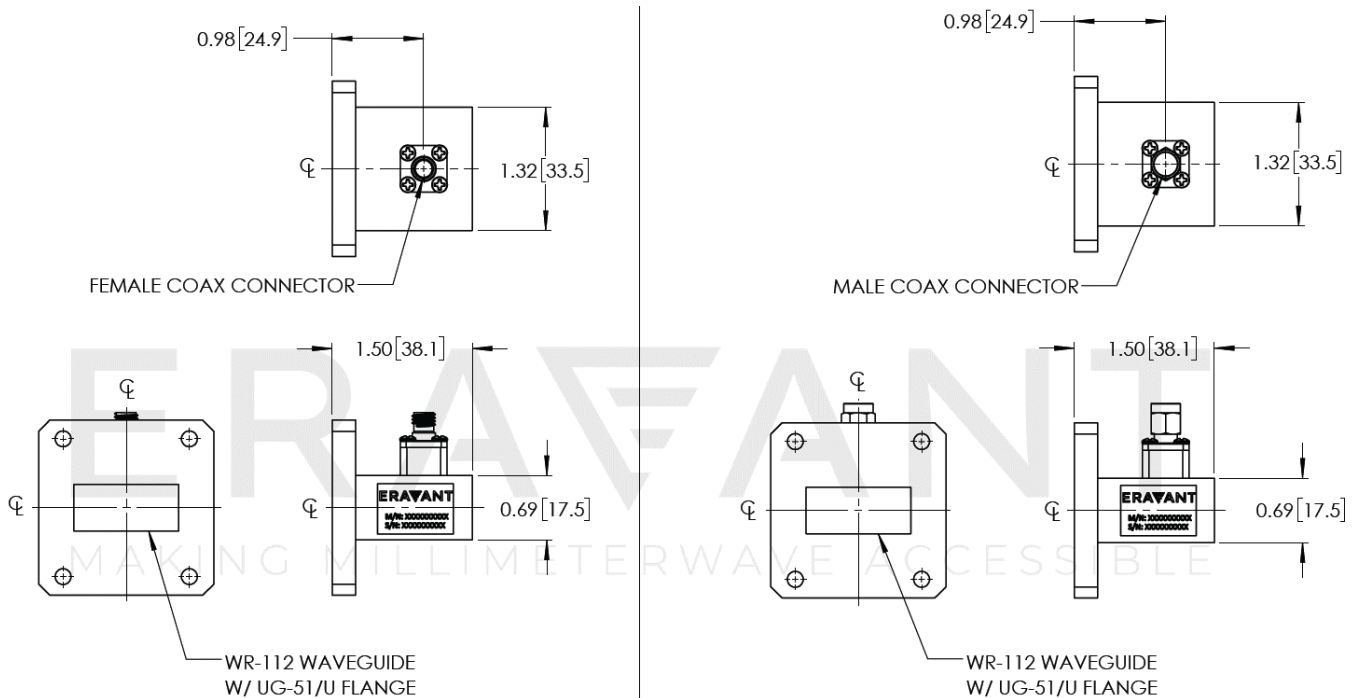
SUPPLEMENTAL DETAILS



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Mechanical Outline:

Unless otherwise specified, all dimensions are in inches [millimeters]



NOTE:

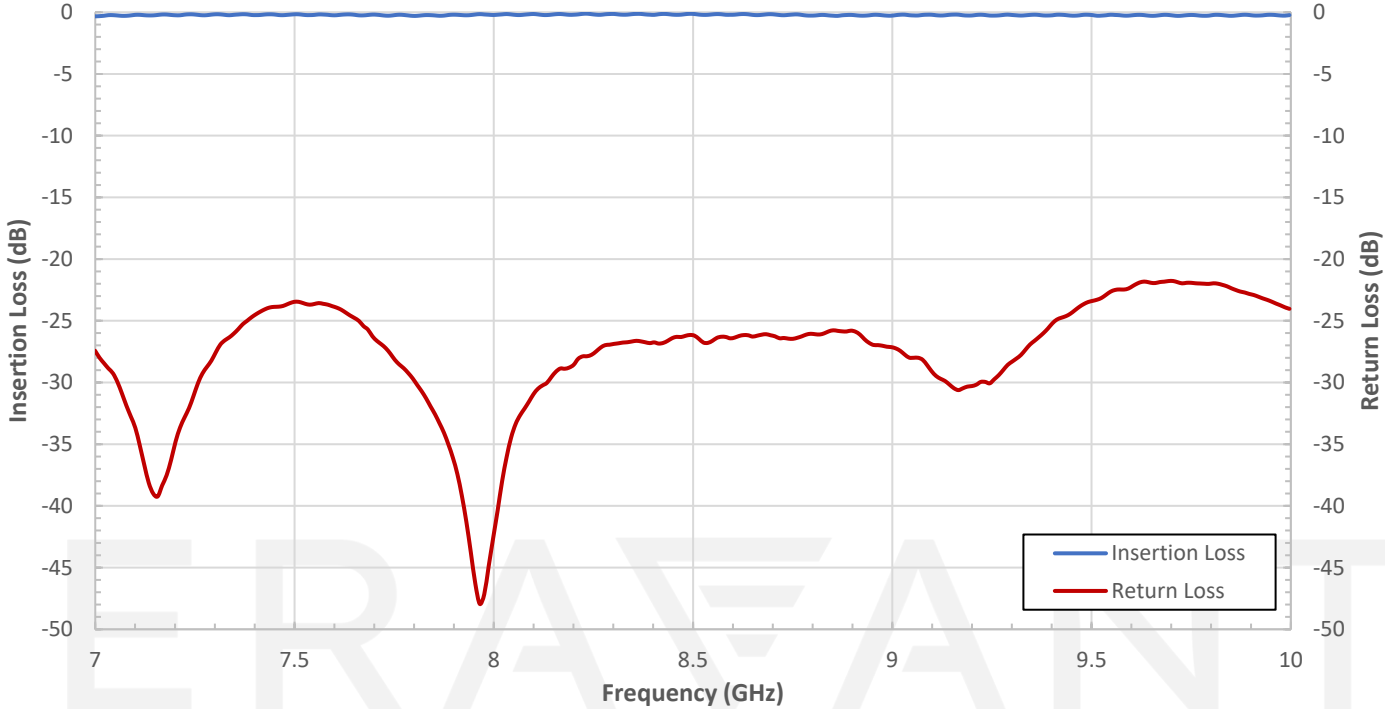
- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right 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: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model [SCH-08008-S1](#) is highly recommended

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Typical Insertion Loss and Return Loss vs Frequency



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