



WR-28 Waveguide to 2.4 mm Connector Adapter, Right Angle, 24 to 43.5 GHz

Description:

Model SWC-2434431505-282F-R1 is a right angle (90°) WR-28 waveguide to coax adapter that covers the frequency range of 24 to 43.5 GHz. They are designed and manufactured for instrumentation grade quality but offered at a commercial grade price, allowing for an efficient transition between the WR-28 waveguide and female 2.4 mm coax connector. The male connector version is offered under model number **SWC-2434431505-282M-R1**. End launch (180°) versions are offered under model numbers **SWC-2434431505-282F-E1** and **SWC-2434431505-282M-E1**. Other connector configurations, such as 1.85 mm connectors, are available under different model numbers.



Features:

- Broadband Coverage from 24 to 43.5 GHz
- Low Insertion Loss and VSWR
- Instrumentation Grade
- DC Open Circuit

Applications:

- 5G Systems and IoT
- Test Lab
- Instrumentations
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	24.0 GHz		43.5 GHz
Insertion Loss		0.5 dB	
Return Loss		15 dB	
Power Handling			30 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

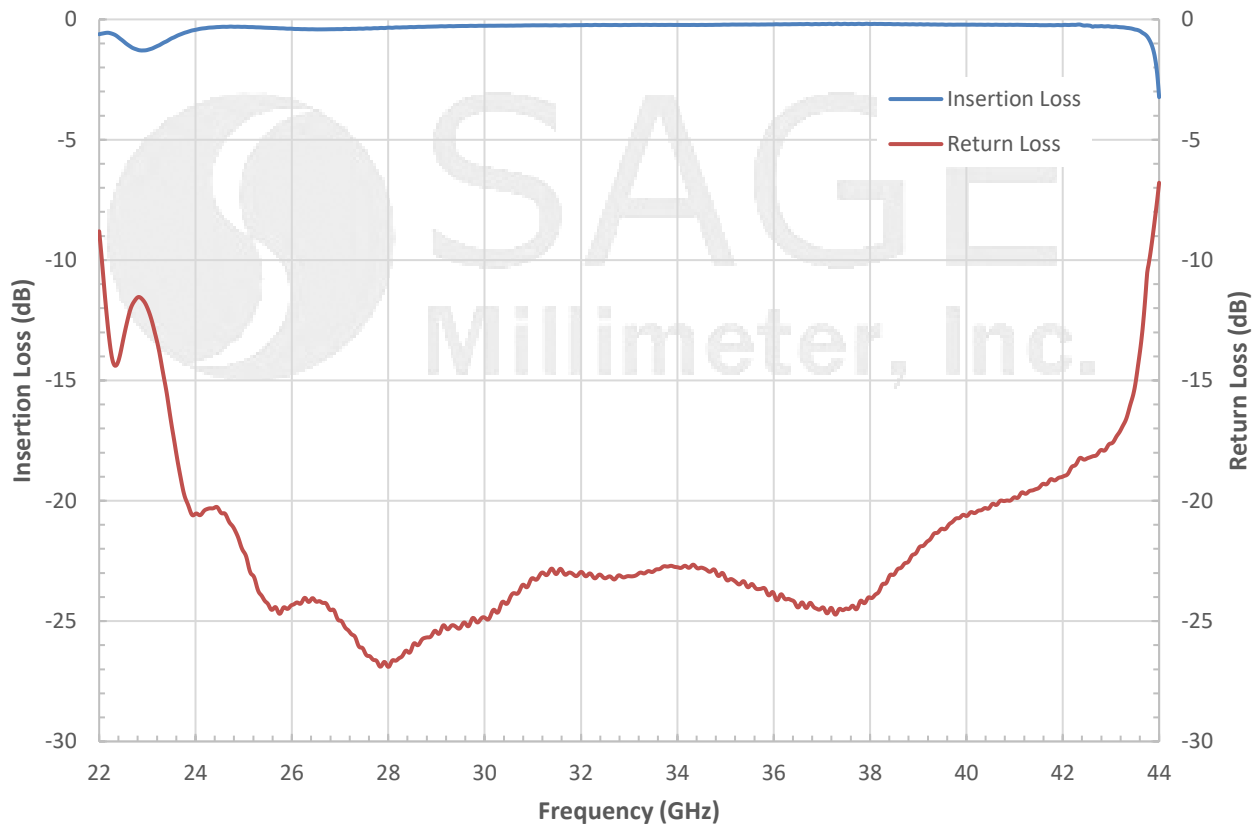
Mechanical Specifications:

Item	Parameter
Waveguide Port	WR-28 Waveguide with UG-599/U Flange
Coaxial Port	2.4 mm Female Connector
Material	Aluminum
Finish	Gold Plated
Weight	0.4 oz
Outline	WC-AR

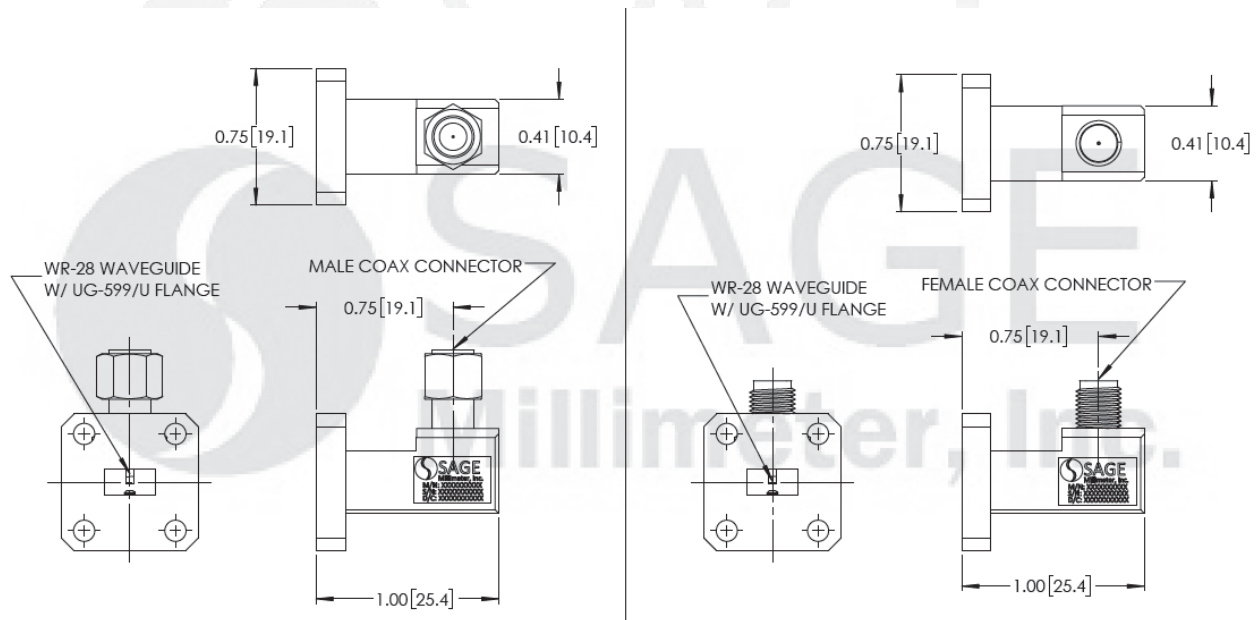


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Typical Performance vs Frequency



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.**

