



WR-10 Waveguide Cable, Flexible, 12" Long

Description:

Model SCW-1010012-F1 is a 12" long WR-10 waveguide cable. The frequency range of the waveguide cable is 75 to 110 GHz. The cable allows for varied orientations of waveguide to waveguide connections. The cable has a typical insertion loss of 8.5 dB and a nominal return loss of 14 dB. The cable is flexible with minimum bend radius of 0.250". Other lengths are offered under different model numbers.



Features:

- High Return Loss
- Low Insertion Loss
- Flexible

Applications:

- Test Lab
- Subassemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	75 GHz		110 GHz
Insertion Loss		8.5 dB	
Return Loss		14 dB	
Power Handling			2 W (CW)
Specification Temperature		+25 °C	
Operation Temperature	-40 °C		+80 °C

Mechanical Specifications:

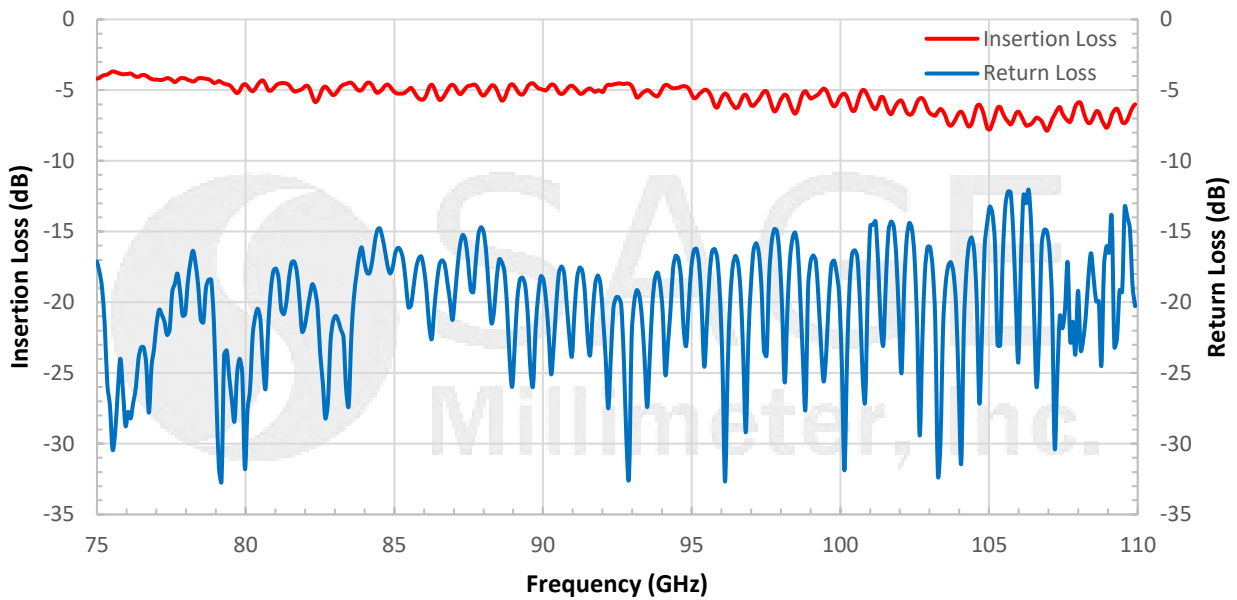
Item	Specification
Minimum Bending Radius	0.250"
Waveguides	WR-10 with UG-387/U-M Flange
Waveguide Material and Finish	Gold Plated Aluminum
Cable Connectors	1 mm Male
Connector Material	Passivated Stainless Steel
Cable Material	Fluorinated Ethylene Propylene (FEP)
Cable Outer Diameter	0.058"
Weight	0.55 Oz
Length	12.0"
Outline	CW-RWRW-FS-L



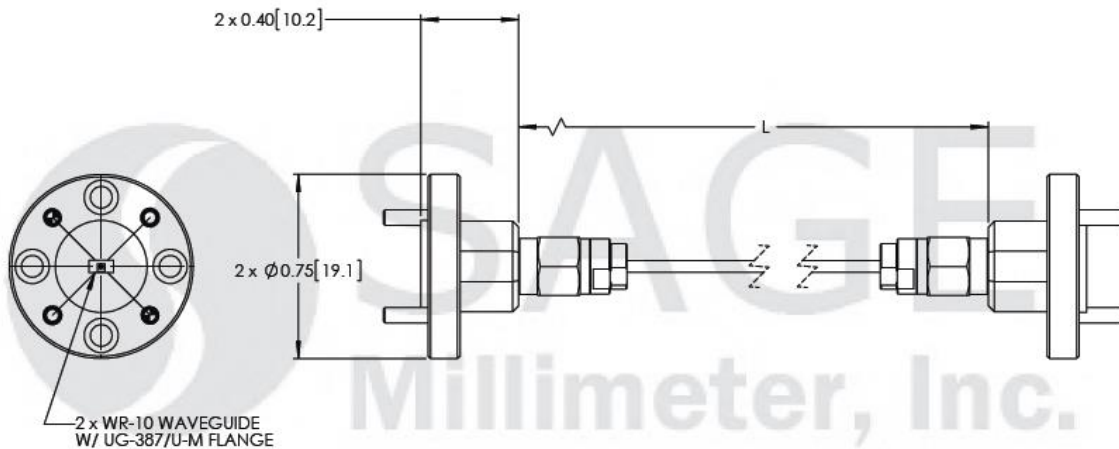


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Typical Performance vs Frequency



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



Note:

- Length "L" can be customizable.
- 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:

- Bending the cable sharply will either cause damage or degrade the performance of the cable.
- Exceeding absolute maximum ratings shown will damage the device.
- Any foreign objects in the waveguide will cause performance degradation and possible device damage.

