



WR-12 Waveguide Cable, Flexible, 12” Long, Lower Insertion Loss

Description:

Model SCW-12E12E012-F1 is a 12” long WR-12 waveguide cable. The frequency range of the waveguide cable is 60 to 90 GHz. The cable allows for varied orientations of waveguide to waveguide connections. The cable has a typical insertion loss of 6.3 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:

- Full Band Coverage
- High Return Loss
- Flexible and Durable

Applications:

- Test Lab
- Subassemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	60 GHz		90 GHz
Insertion Loss		6.3 dB	
Return Loss		14 dB	
Power Handling			2 W (CW)
Specification Temperature		+25 °C	
Operation Temperature	-40 °C		+80 °C

Mechanical Specifications:

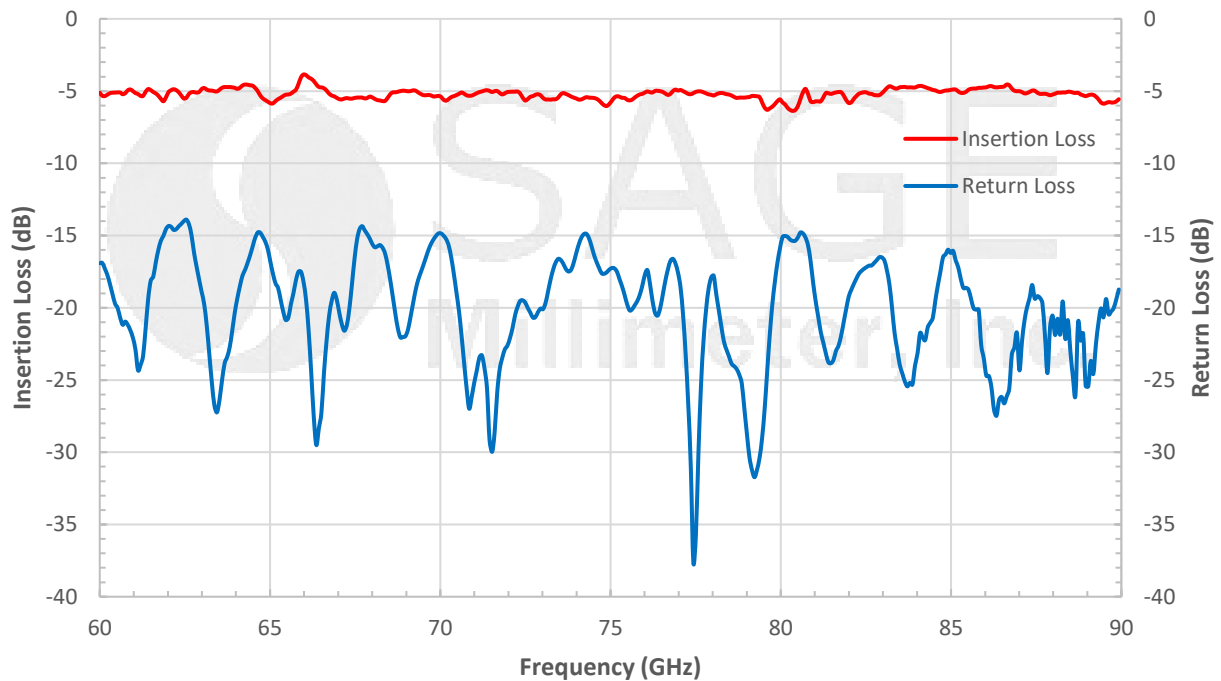
Item	Specification
Minimum Bending Radius	0.250”
Waveguides	WR-12 with UG-387/U Flange
Waveguide Material and Finish	Gold Plated Aluminum
Cable Connectors	1.35 mm Male
Connector Material	Passivated Stainless Steel
Cable Material	Fluorinated Ethylene Propylene (FEP)
Cable Outer Diameter	0.058”
Length	12.0”
Weight	1.5 Oz
Outline	CW-RERE-FS-L



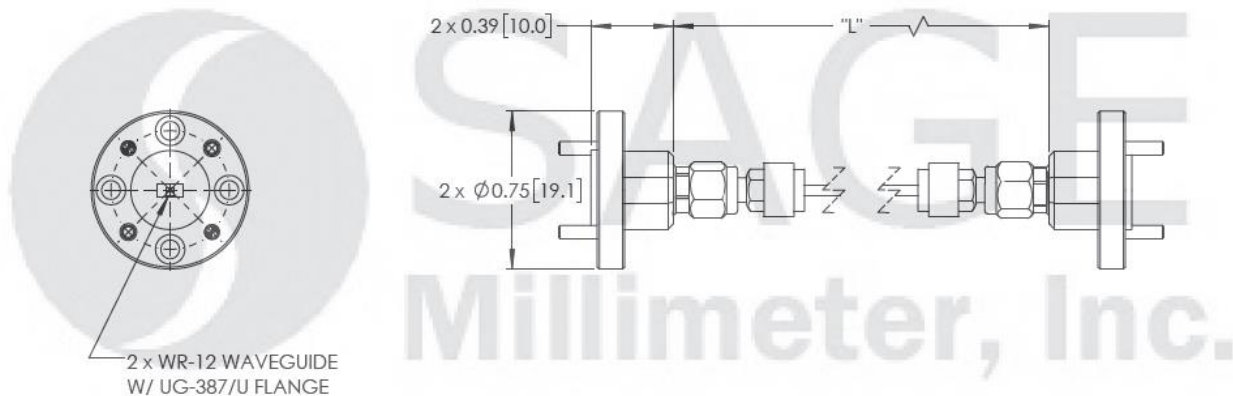


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Typical Performance vs. Frequency



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.
- 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.

