



## WR-12 Waveguide Cable, Flexible, 6" Long

### Description:

**Model SCW-1212006-F1** is a 6" 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 6.0 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		6.0 dB	
Return Loss		14 dB	
Power Handling			2 W (CW)
Specification Temperature		+25 °C	
Operation Temperature	-40 °C		+80 °C

### Mechanical Specifications:

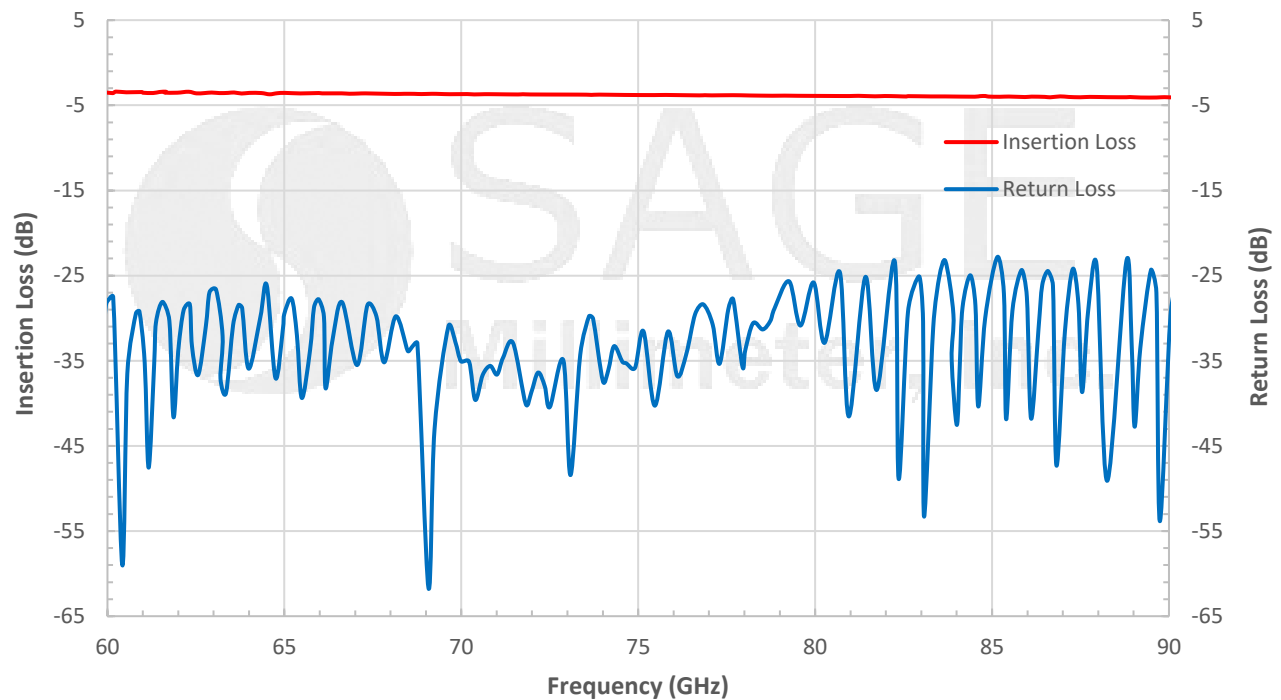
Item	Specification
Minimum Bending Radius	0.250"
Waveguides	WR-12 with UG387/U Flange
Waveguide Material and Finish	Gold Plated Aluminum
Cable Connectors	1 mm Male
Connector Material	Passivated Stainless Steel
Cable Material	Fluorinated Ethylene Propylene (FEP)
Cable Outer Diameter	0.058"
Length	6.0"
Weight	1.4 Oz
Outline	CW-RERE-FS-L



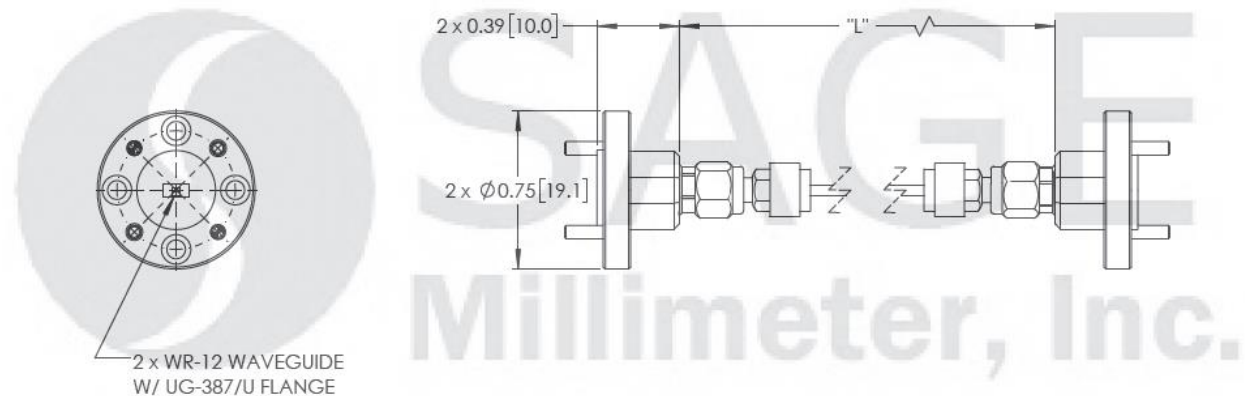


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### Typical Performance vs. Frequency



### 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.

