

WR-12 Waveguide Cable, Flexible, 12" Long

SCG-12120-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.

**Electrical Specifications:**

Parameter	Minimum	Typical	Maximum
Frequency	60 GHz		90 GHz
Insertion Loss		6.3 dB	
Return Loss		14 dB	
Power Handling			2 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°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

ECCN

EAR99

FEATURES

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

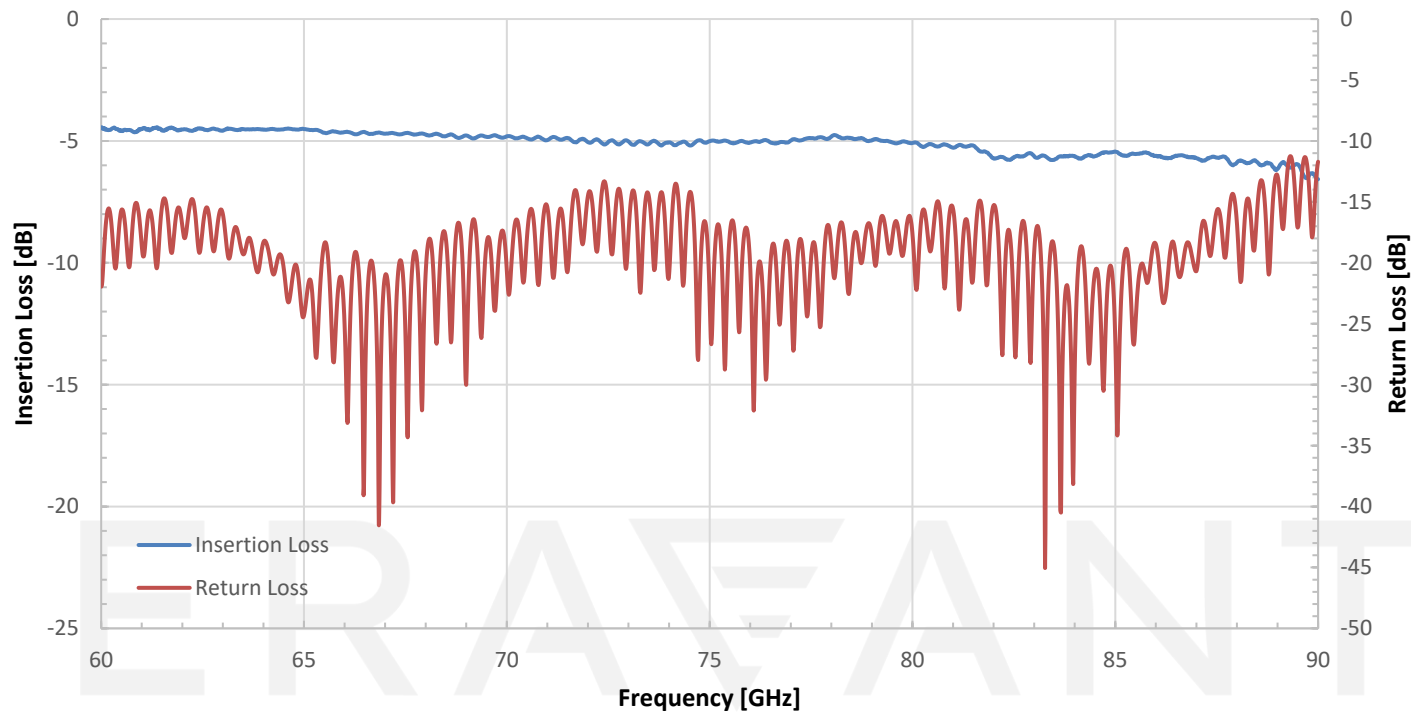
APPLICATIONS

- Test Lab
- Sub-assemblies

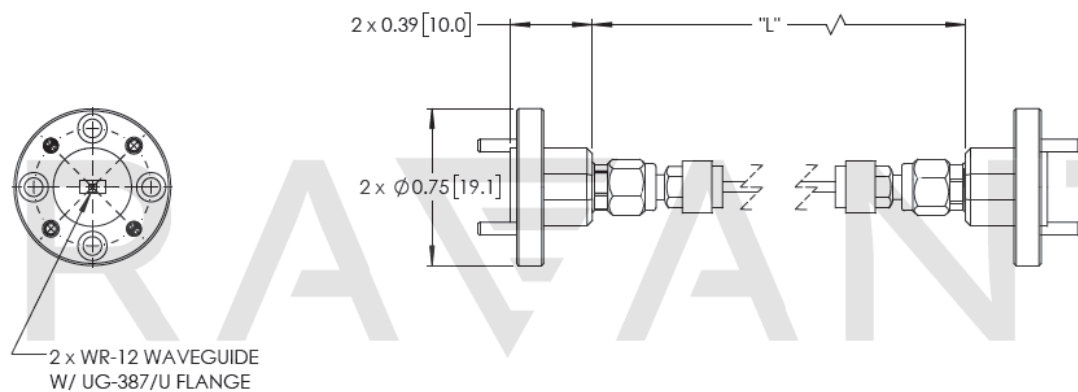
SUPPLEMENTAL DETAILS

SCG-12120-F1

Typical Performance vs Frequency



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



NOTE:
LENGTH "L" IS CUSTOMIZABLE

NOTE:

- Length "L" can be customizable.
- 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:

- Bending the cable sharply will either cause damage or degrade the performance of the cable.
- Exceeding absolute maximum ratings shown will damage the device.
- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors 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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