SCG-12120-F1-2

WR-12 Waveguide Cable, Flexible, 12” Long

SCG-12120-F1-2 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 8.0 dB and a nominal return loss of 14 dB. The cable is flexible with a 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		8.0 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 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

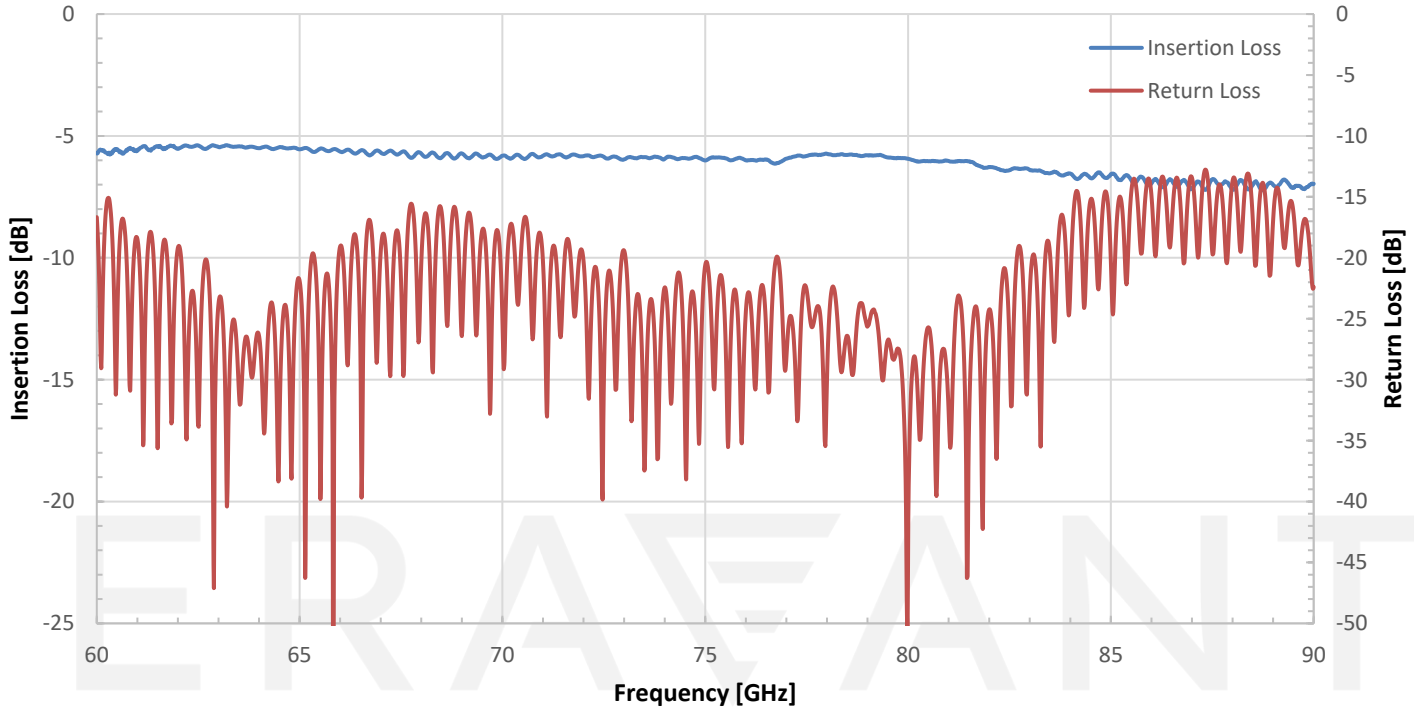
- Full Band Coverage
- High Return Loss
- Flexible and Durable

APPLICATIONS

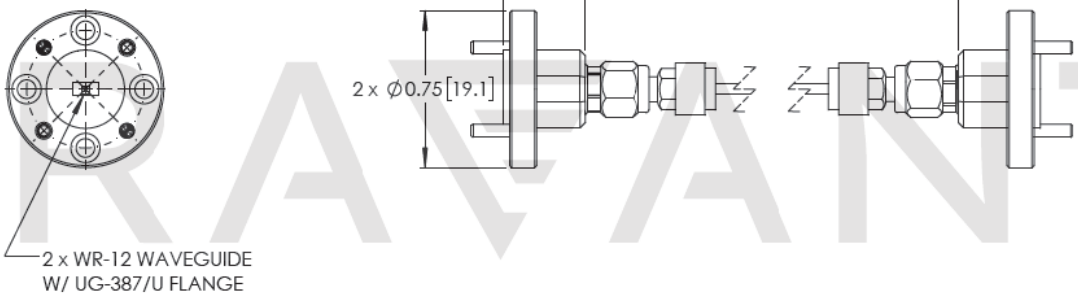
- Test Lab
- Sub-assemblies

SUPPLEMENTAL DETAILS

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 mm connectors proper torque should be applied: 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm). Torque wrench model SCH-06004-S1 is highly recommended.

MAKING MILLIMETERWAVE ACCESSIBLE