

## SCG-15120-F1-2

### WR-15 Waveguide Cable, Flexible, 12" Long

**SCG-15120-F1-2** is a 12" long, flexible, WR-15 waveguide cable. The frequency range of the waveguide cable is 50 to 75 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 models.



#### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	50 GHz		75 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-15 with UG-385/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-RVRV-FS-L

#### ECCN

EAR99

#### FEATURES

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

#### APPLICATIONS

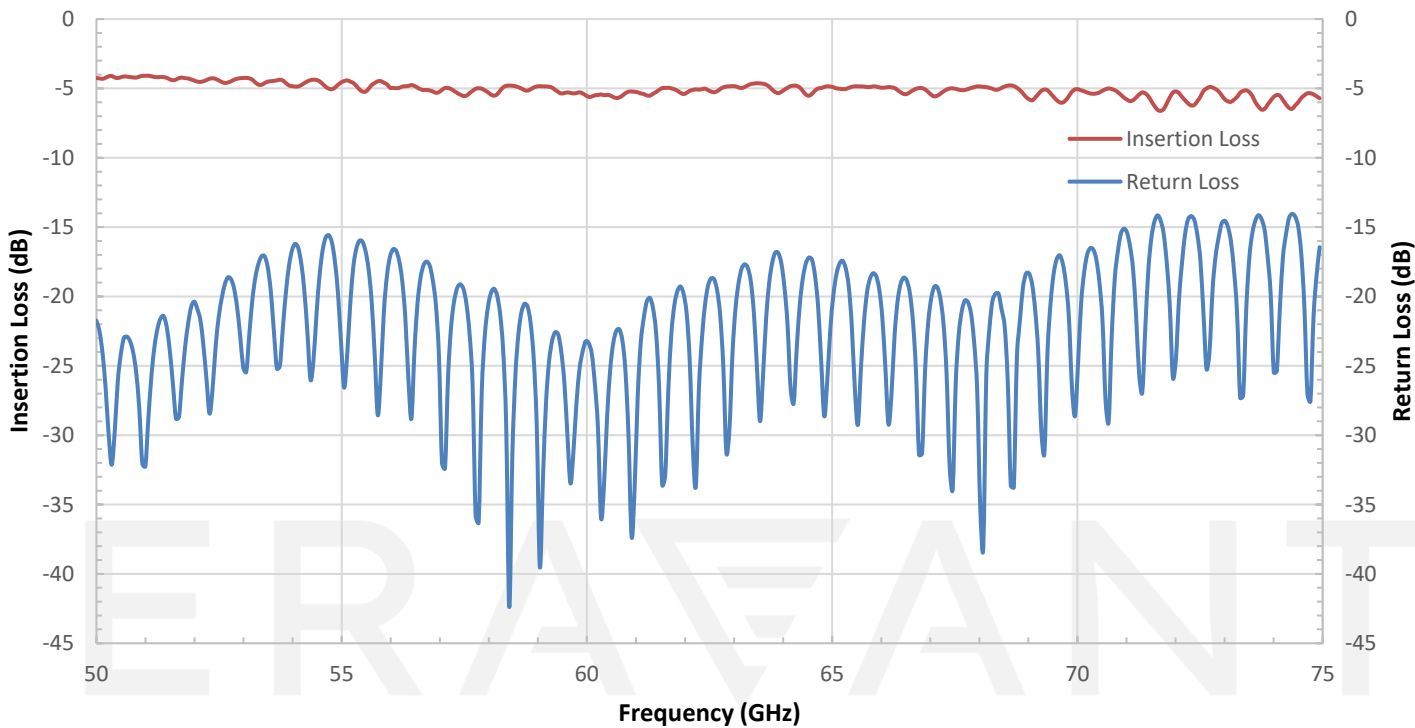
- Test Lab
- Sub-assemblies

#### SUPPLEMENTAL DETAILS

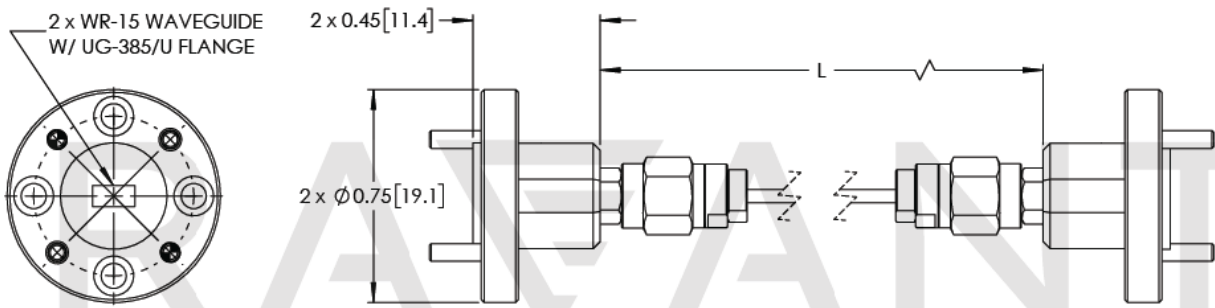


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Typical Performance vs Frequency



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



NOTE:  
LENGTH "L" CAN BE CUSTOMIZABLE

**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.
- 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:  $4.0 \pm 0.15$  inch-pounds ( $0.45 \pm 0.02$  Nm). Torque wrench model SCH-06004-S1 is highly recommended.

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