

## SWG-137354-FB-FT-G

### WR-137 Flexible Twistable Waveguide Section, 35.4" (900 mm)

**SWG-137354-FB-FT-G** is a 35.4" (900 mm) long, C-band flexible and twistable waveguide section with a WR-137 waveguide and a standard grooved square flange. It also has a vulcanized silicone rubber jacket for robustness applications. The waveguide features a flexible bend with a static twist to be long-term stress free when it is integrated into systems. The flanges of the waveguide are grooved to accept rubber rings to be watertight for outdoor applications. The waveguide is manufactured with a precision manufacturing process to ensure high quality. The waveguide has low insertion loss in the frequency range of 5.85 to 8.20 GHz. Additional standard lengths and custom length options are available under different model numbers.



#### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	5.85 GHz		8.20 GHz
Insertion Loss		0.23 dB	
Return Loss		26 dB	
Power Handling			2000 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

#### ECCN

EAR99

#### FEATURES

- High Quality
- Flexible Bending and Static Twisting
- Comparable Cost to the Rigid Waveguide

#### APPLICATIONS

- Communications Systems
- Various Outdoor Equipment

#### SUPPLEMENTAL DETAILS

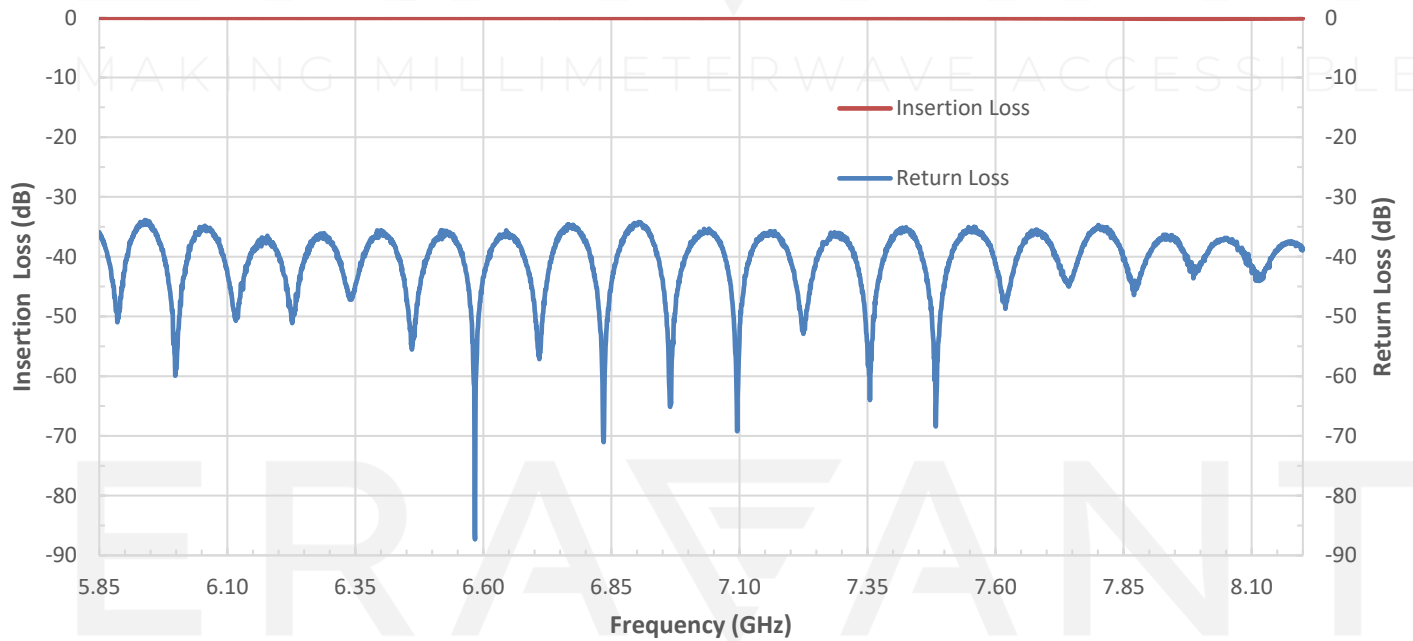


## SWG-137354-FB-FT-G

### Mechanical Specifications:

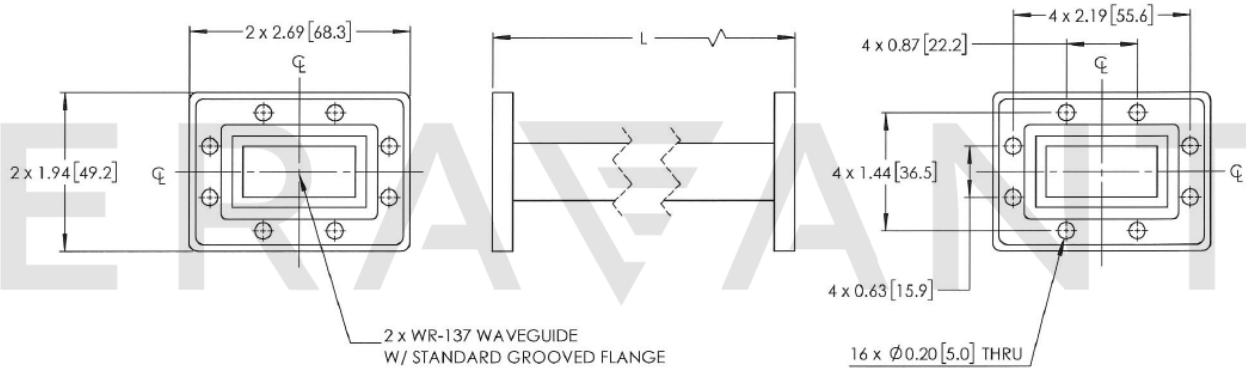
Item	Specification
Waveguide Port	WR-137 Waveguide with Standard Grooved Flange
Minimum Bending Radius (Static)	E-plane: 3.9" (100 mm); H-plane: 7.9" (200 mm)
Minimum Bending Radius (Dynamic)	E-plane: 15.7" (400 mm); H-plane: 31.5" (800 mm)
Maximum Torsion Angle (Static)	210°/meter
Maximum Torsion Angle (Dynamic)	52°/meter
Material	Brass
Flange Finish	Nickel Plated
Waveguide Finish	Silver Plated
Waveguide Jacket Material	Vulcanized Silicone Rubber
Weight	19 Oz
Insertion Length	35.4" (900 mm) ( $\pm 3\%$ )
Outline	WG-FC-FT-G-L

### Typical Performance vs. Frequency



## SWG-137354-FB-FT-G

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



**NOTE:**

LENGTH "L" IS CUSTOMIZABLE

**NOTE:**

- 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.
- Other mechanical configurations are available under different model numbers.
- Eravant reserves the right to change the information presented without notice.

**CAUTION:**

- Exceeding the 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.