

SWG-75197-FB-FT-G

WR-75 Flexible Twistable Waveguide Section, 19.7" (500 mm)

SWG-75197-FB-FT-G is a 19.7" (500 mm) long, WR-75 flexible and twistable waveguide section with a WR-75 waveguide and 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 10 to 15 GHz. Additional standard lengths and custom length options are available under different model members.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	10 GHz		15 GHz
Insertion Loss		0.25 dB	
Return Loss		25 dB	
Power Handling			750 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
Waveguide Size	WR-75
Flange Size	Standard Grooved Flange
Maximum Bending Radius (E-plane)	2.5" (64 mm)
Maximum Bending Radius (H-plane)	4.5" (115 mm)
Maximum Torsion Angle	330°/meter
Flange Material	Brass
Flange Finish	Nickel Plated
Waveguide Finish	Silver Plated
Waveguide Jacket Material	Vulcanized Silicone Rubber
Weight	13 Oz
Insertion Length	19.7" (500 mm) (±3 %)
Outline	WG-F7-FT-G-L

ECCN

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FEATURES

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

APPLICATIONS

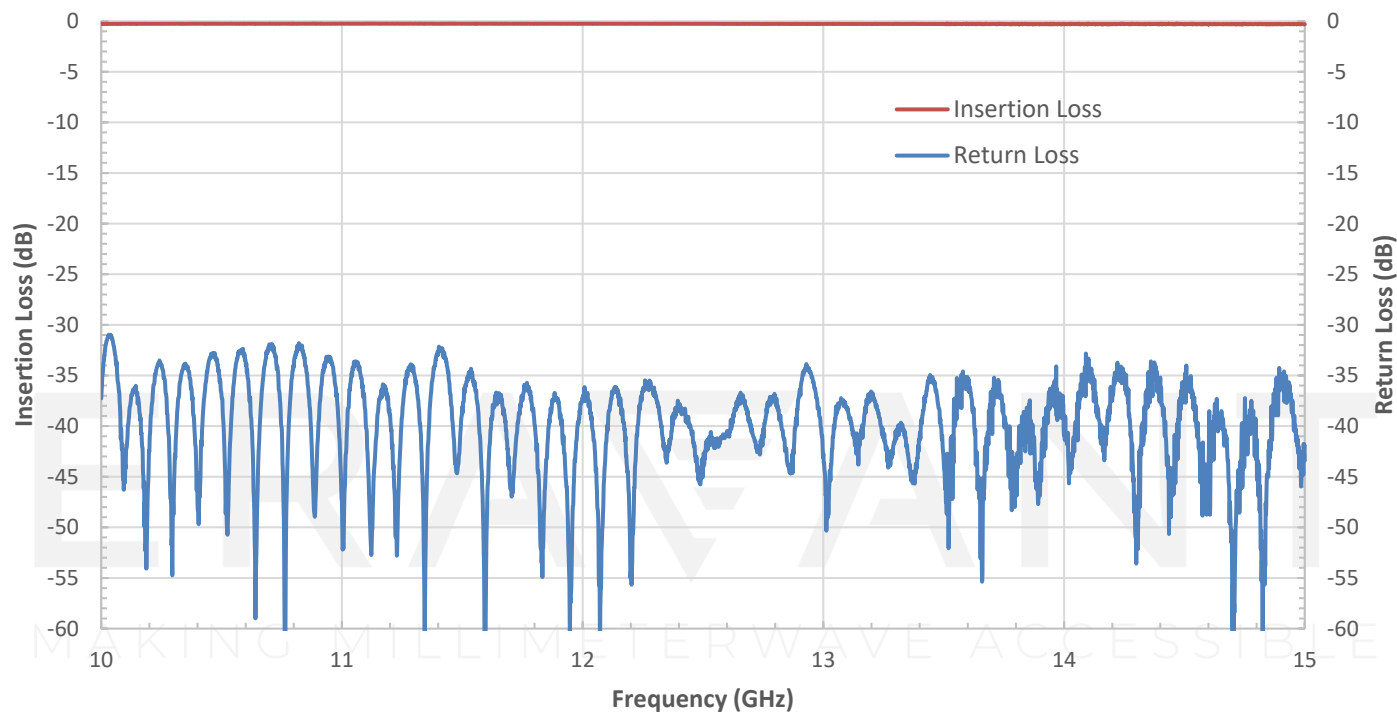
- Communication Systems
- Various Outdoor Equipment

SUPPLEMENTAL DETAILS

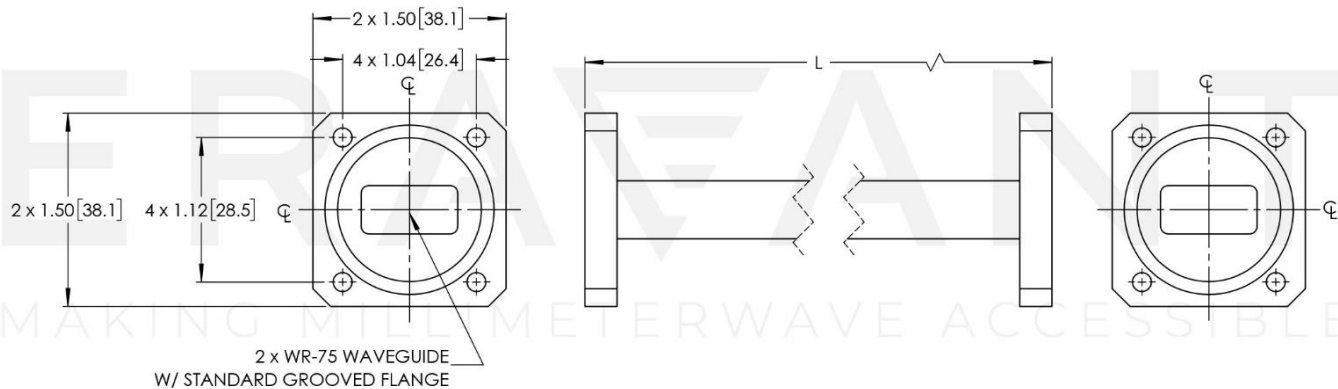


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Typical Performance vs. Frequency



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



NOTE:

LENGTH "L" IS CUSTOMIZABLE

NOTE:

- Length “L” is customizable.
- All data presented is collected from a sample lot. Actual data may vary from unit to unit.
- All testing was performed under +25 °C case temperature.
- Other mechanical configurations are available under different model numbers.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Exceeding absolute maximum ratings shown will damage the device.
- Any foreign objects in the waveguide will cause performance degradation and possible device damage.

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