

WR-28 Flexible Twistable Waveguide Section, 5.91" (150 mm) Long

SWG-28059-FB-FT-G is a 5.91" (150 mm) long, Ka-band flexible and twistable waveguide section with a WR-28 waveguide and UG-599/U 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 in a system. 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 26.5 to 40 GHz. Additional standard lengths and custom length options are available under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	26.5 GHz		40 GHz
Insertion Loss		0.3 dB	
Return Loss		21 dB	
Power Handling			75 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Waveguide Size	WR-28 Waveguide with UG-599/U Grooved Flange
Minimum Bending Radius (Static)	E-plane: 1.5" (38 mm); H-plane: 3.0" (76 mm)
Minimum Bending Radius (Dynamic)	E-plane: 3.1" (80 mm); H-plane: 6.3" (160 mm)
Maximum Torsion Angle (Static)	465°/meter
Maximum Torsion Angle (Dynamic)	230°/meter
Material / Flange Finish / Waveguide Finish	Brass / Nickel Plated / Silver Plated
Waveguide Jacket Material	Vulcanized Silicone Rubber
Weight	3.2 Oz
Insertion Length	5.91" (150 mm) (±3 %)
Outline	WG-FA-FT-G-L

ECCN

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FEATURES

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

APPLICATIONS

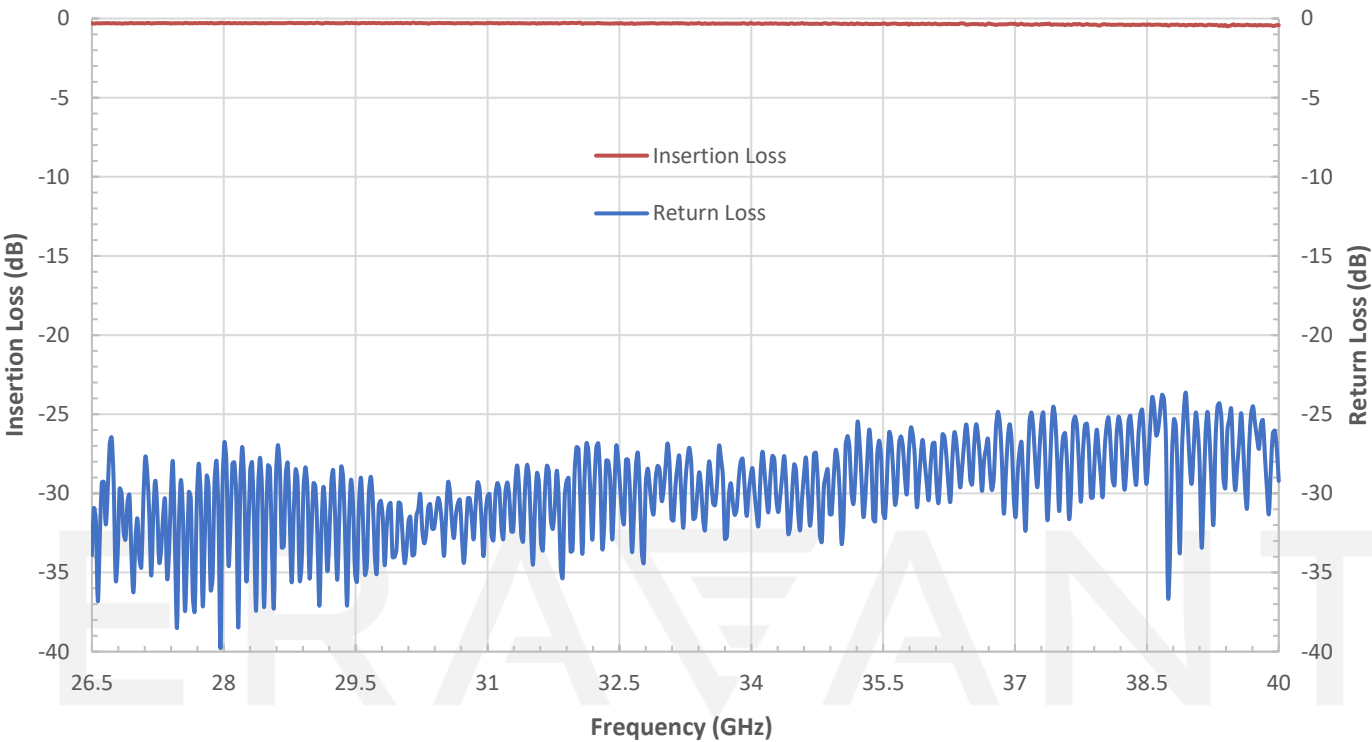
- 5G Systems
- Communication Systems
- Various Outdoor Equipment

SUPPLEMENTAL DETAILS

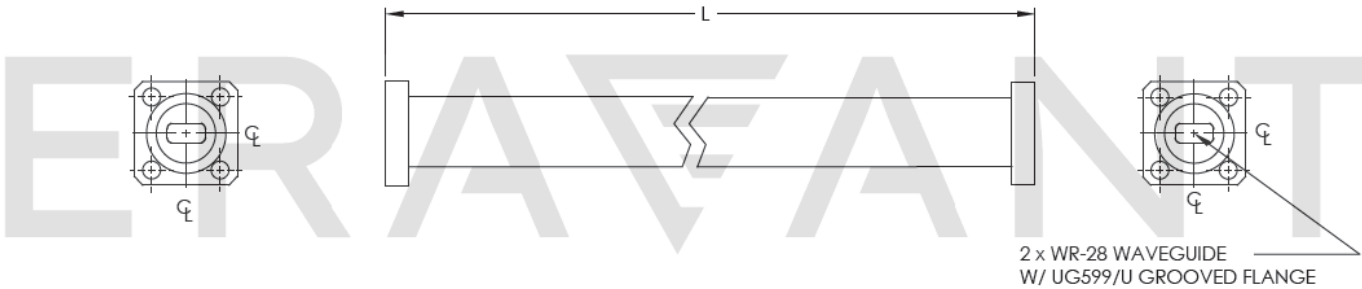


SWG-28059-FB-FT-G

Typical Performance vs. Frequency



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



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.
- 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.
- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.

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