SWG-34118-FB-FT-G

Rev 1.0

WR-34 Flexible Twistable Waveguide Section, 11.8” (300 mm) Long

Description:

Model SWG-34118-FB-FT-G is a 11.8” (300 mm) long, flexible twistable waveguide section with a WR-34 waveguide and UG-1530/U 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 in the system. The flanges of the waveguide are grooved to accepting 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 22 to 33 GHz. Additional standard lengths and custom length options are available under different model numbers.

Features:

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

Applications:

- 5G Systems
- Communication Systems
- Various Outdoor Equipment

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	22 GHz		33 GHz
Insertion Loss		0.45 dB	
Return Loss		20 dB	
Power Handling			75 W (CW)
Specification Temperature		+25 ˚C	
Operation Temperature	-40 ˚C		+85 ˚C

Mechanical Specifications:

Item	Specification
Waveguide Size	WR-34 Waveguide with UG-1530/U Grooved Flange
Minimum Bending Radius (Static)	E-plane: 0.94” (24 mm); H-plane: 1.89” (48 mm)
Minimum Bending Radius (Dynamic)	E-plane: 3.14” (80 mm); H-plane: 6.30” (160 mm)
Maximum Torsion Angle (Static)	630˚/meter
Maximum Torsion Angle (Dynamic)	230˚/meter
Material / Flange Finish / Waveguide Finish	Brass / Nickel Plated / Silver Plated
Waveguide Jacket Material	Vulcanized Silicone Rubber
Weight	4.5 Oz
Insertion Length	11.8” (300 mm) (±3 %)
Outline	WG-F3-FT-G-L

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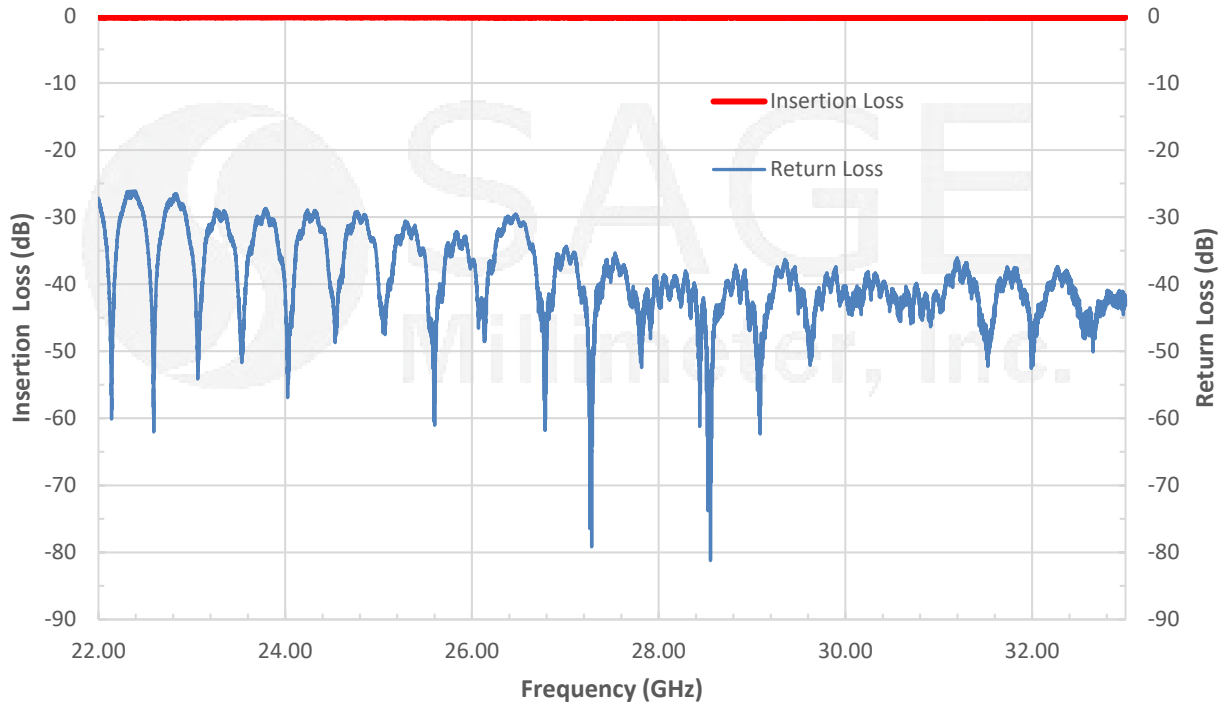
Typical Performance vs. Frequency



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

Note:

- Other mechanical configurations are available under different model numbers.
- SAGE Millimeter, Inc. 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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