



WR-51 Waveguide, Lowpass Filter, 15 to 22 GHz

Description:

Model SWF-22325340-51-L1 is a WR-51 waveguide lowpass filter with a passband frequency from 15 to 22 GHz and a rejection frequency 25 to 40 GHz. Due to the waveguide cut off nature, the low side of the filter has rejection range of DC to 12 GHz. The filter provides a nominal insertion loss of 1.0 dB across its passband and a typical rejection of 40 dB. Since the high end cutoff frequency can be changed by modifying the design, custom designs can be offered under different model numbers.



Features:

- Low Insertion Loss
- High Rejection

Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	15 GHz		22 GHz
Passband Insertion Loss		1.0 dB	
Rejection Frequency, Low Side	DC		12 GHz
Rejection Frequency, High Side	25 GHz		40 GHz
Rejection		40 dB	
Passband Return Loss		20 dB	
Power Handling			100 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

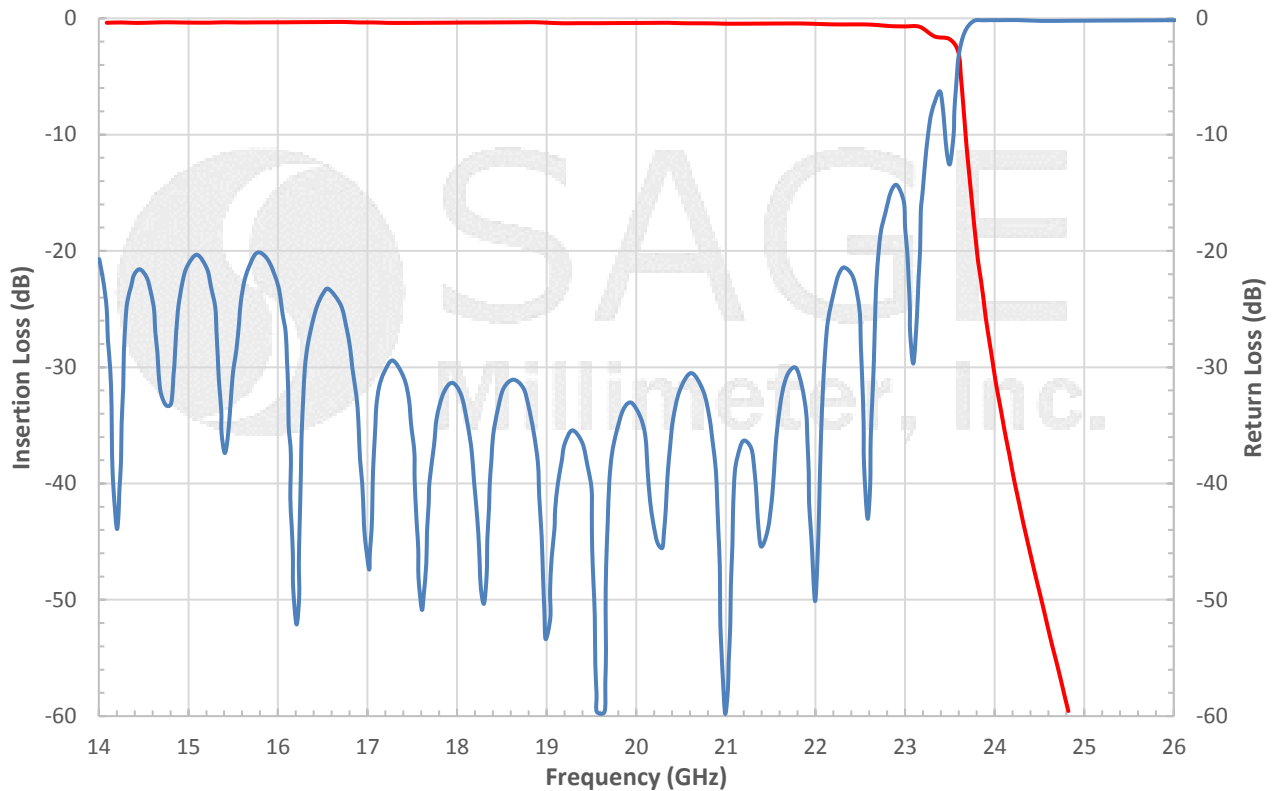
Item	Specification
Waveguide	WR-51 Waveguide with Standard Flange
Material	Aluminum
Finish	Gold Plated
Weight	6.2 Oz
Size	4.75" (L) X 1.31" (W) X 1.31" (H)
Outline	WF-LQ



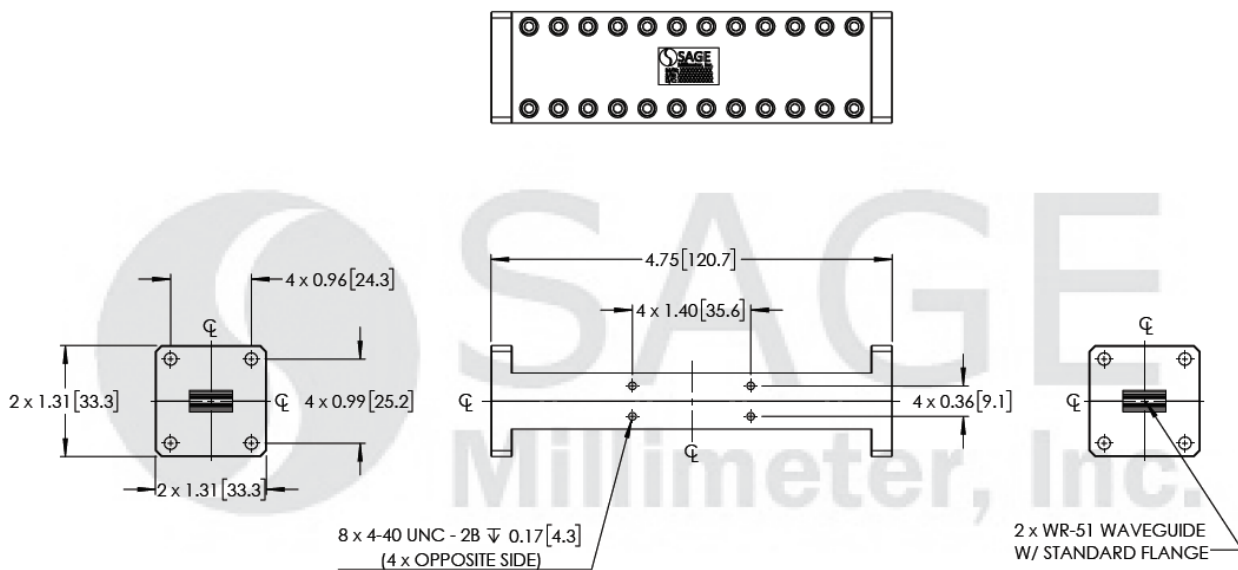


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Typical Performance vs. Frequency



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



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Note:

- All data presented is simulated. Actual data may vary.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Any foreign objects in the waveguide will degrade performance and/or damage the device.

