

WR-75 Waveguide, Lowpass Filter, 10 to 15 GHz

Description:

Model SWF-15318340-75-L1 is a WR-75 waveguide lowpass filter with a passband frequency from 10 to 15 GHz and a rejection frequency 18 to 25 GHz. Due to the waveguide cut off nature, the low side of the filter has rejection range of DC to 8 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	10 GHz		15 GHz
Passband Insertion Loss		1.0 dB	
Rejection Frequency, Low Side	DC		8 GHz
Rejection Frequency, High Side	18 GHz		25 GHz
Rejection		40 dB	
Passband Return Loss		30 dB	
Power Handling			100 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

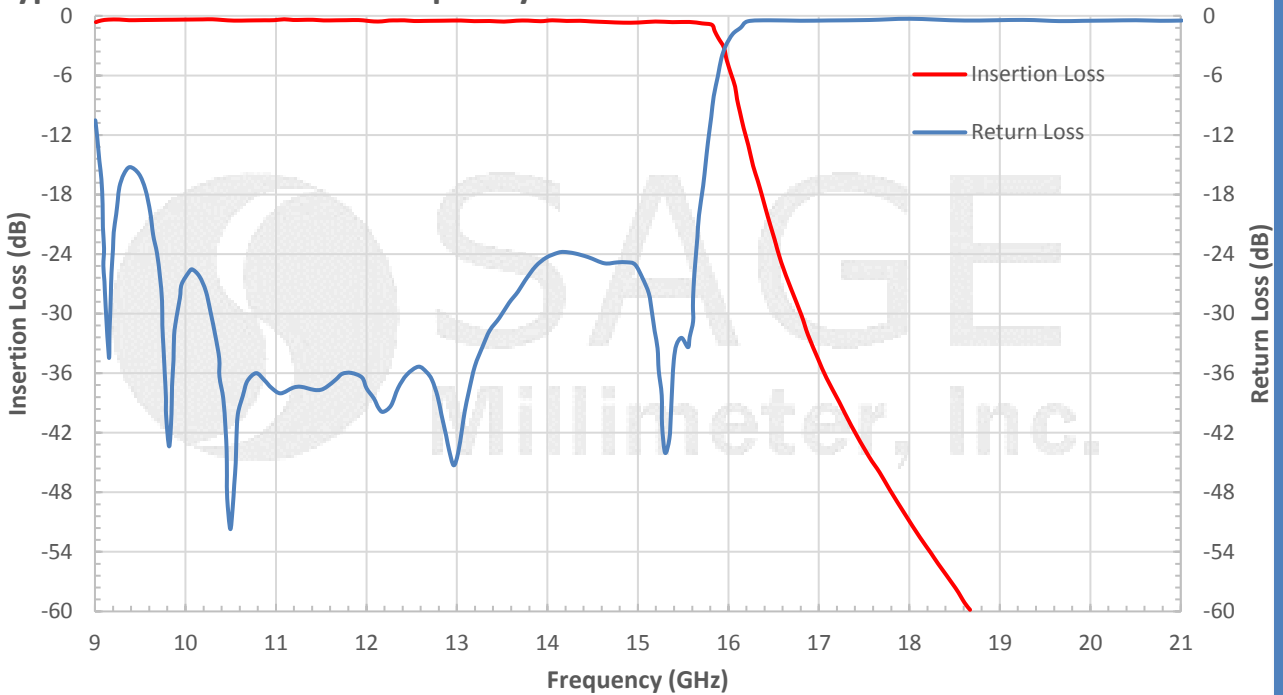
Mechanical Specifications:

Item	Specification
Waveguide Port	WR-75 Waveguide with Standard Flange
Material	Aluminum
Finish	Gold Plated
Weight	8.2 Oz
Size	5.0" (L) X 1.5" (W) X 1.5" (H)
Outline	WF-L7

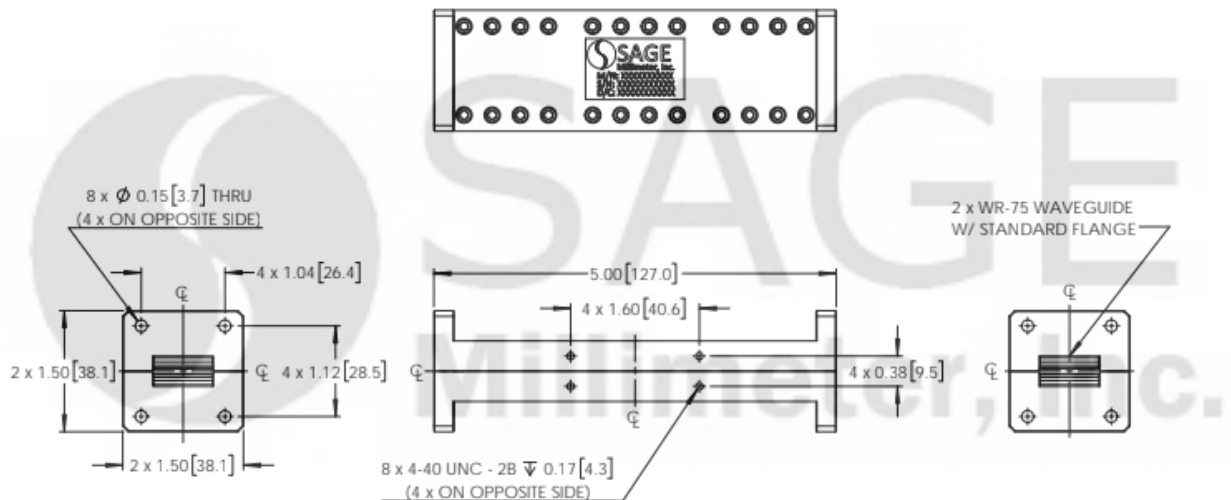


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Typical Performance vs. Frequency



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



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.



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