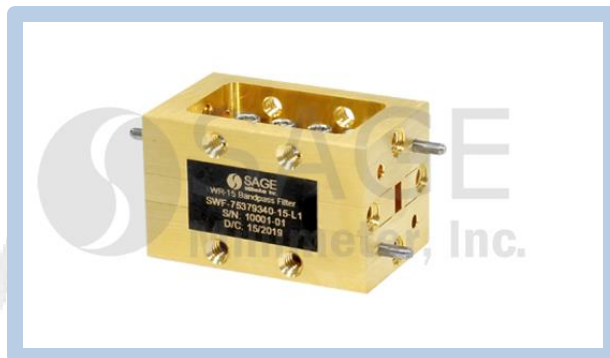


Waveguide Lowpass Filter, W Band

Description:

Model SWF-11412440-10-L1-WP is a W band waveguide lowpass filter with a passband frequency from 62 to 110 GHz and a rejection frequency 120 to 160 GHz. Due to the waveguide cut off nature, the low side of the filter has rejection range of DC to 56 GHz. The filter provides a nominal insertion loss of 2 dB across its passband and a typical rejection of 50 dB. Since the high end cutoff frequency can be changed by modifying the design, custom designs can be offered under different model numbers.



Features:

- Full Band Operation
- Low Insertion Loss
- High Rejection

Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	62 GHz		110 GHz
Passband Insertion Loss		2 dB	
Passband Return Loss		14 dB	
Rejection Frequency, Low Side	DC		56 GHz
Rejection Frequency, High Side	120 GHz		160 GHz
Rejection	40 dB	50 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

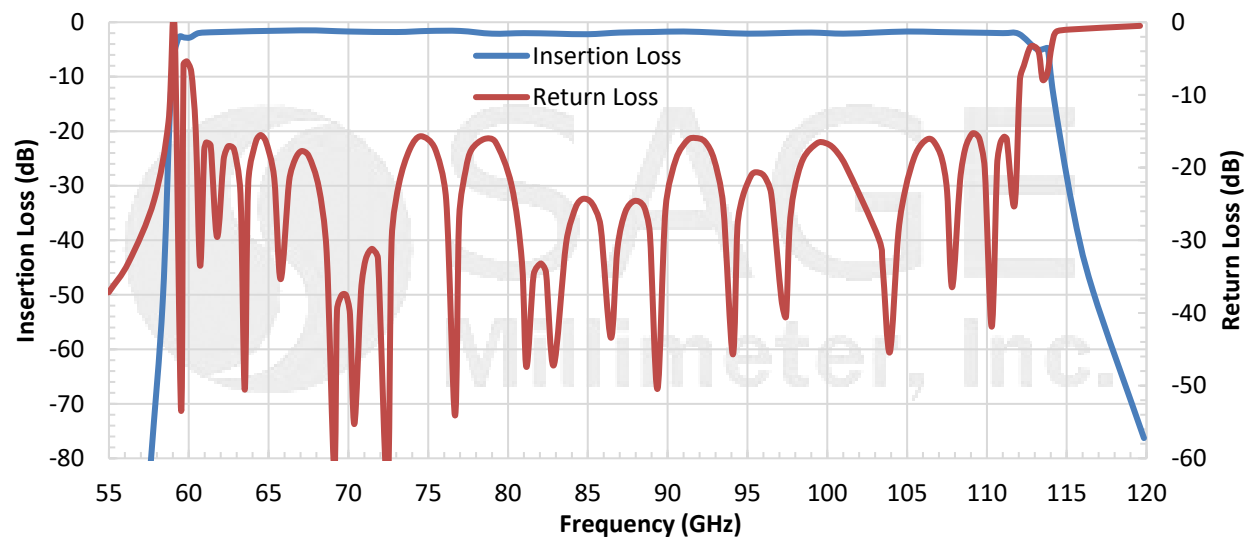
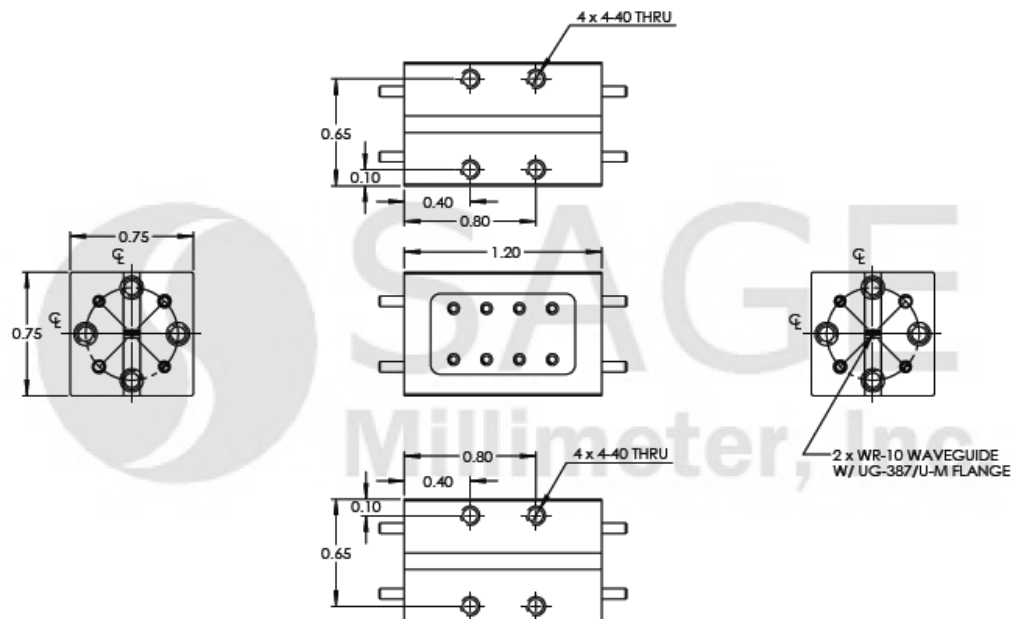
Mechanical Specifications:

Item	Specification
Waveguide	WR-10 Waveguide with UG-387/U-M Flange
Size	1.20" (L) x 0.75" (W) x 0.75" (H)
Material	Brass
Finish	Gold Plated
Weight	2.6 Oz
Outline	WF-LW-1.2



Waveguide Lowpass Filter, W Band

Simulated Insertion Loss and Return Loss vs. Frequency

**Mechanical Outline:** (Unless otherwise specified, all dimensions are in inches)**Note:**

- All data are presented by using a limited sample lot. Actual data may vary unit to unit.
- All testing was performed under +25 °C case temperature.
- 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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