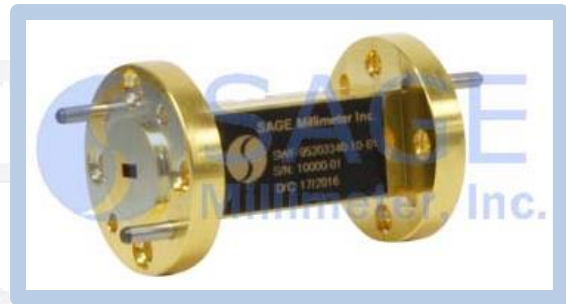




Waveguide Highpass Filter, W Band

Description:

Model SWF-84380340-10-H1 is a W band waveguide highpass filter with a passband frequency of 84 GHz and higher and a rejection frequency from DC to 80 GHz. The filter provides a nominal insertion loss of 0.9 dB across its passband with a low ripple and a typical rejection of 40 dB. Since the low end cutoff frequency can be changed by modifying the design, custom designs can be offered under different model numbers.



Features:

- Low Cost
- Low Insertion Loss
- High Rejection

Applications:

- Communication Systems
- Radar Systems
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	84 GHz		
Passband Insertion Loss		0.9 dB	
Passband Ripple		±0.3 dB	
Rejection Frequency	DC		80 GHz
Rejection		40 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

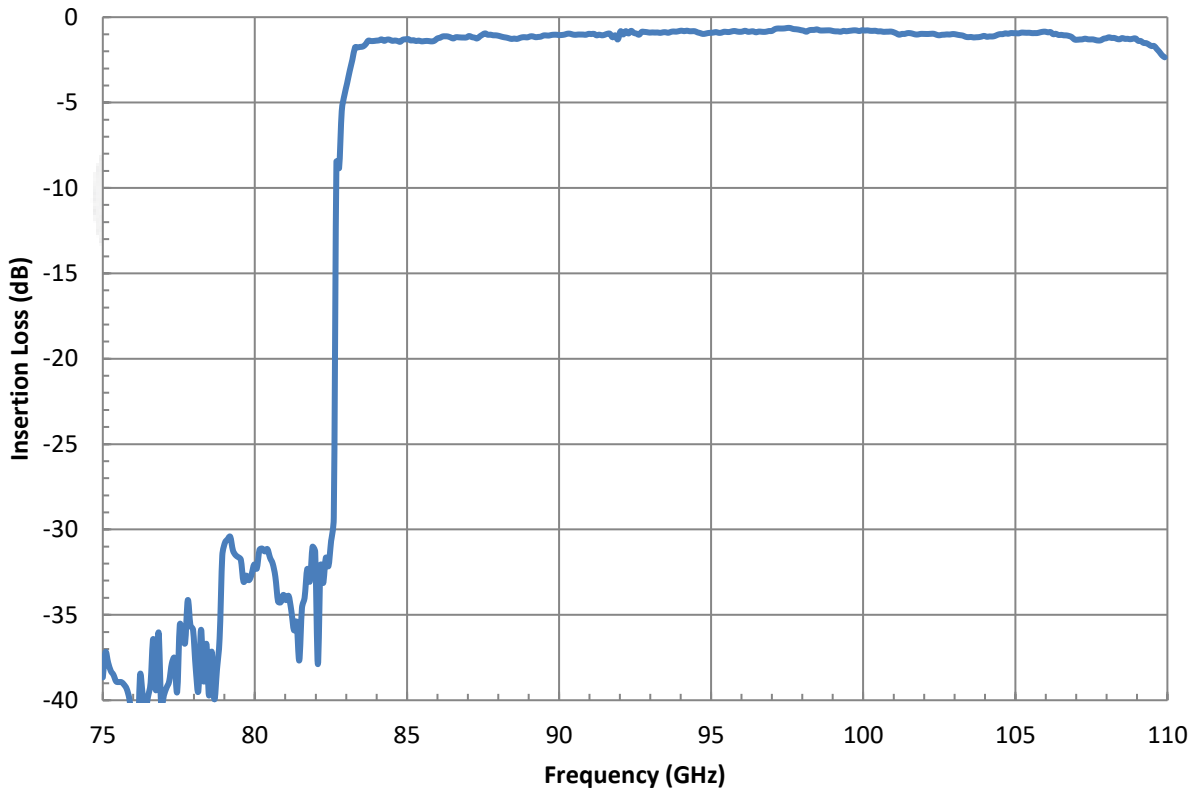
Item	Specification
Waveguide	WR-10 with UG-387/U-M Flange
Size	1.20" (L) X 0.75" (Ø)
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WF-HW



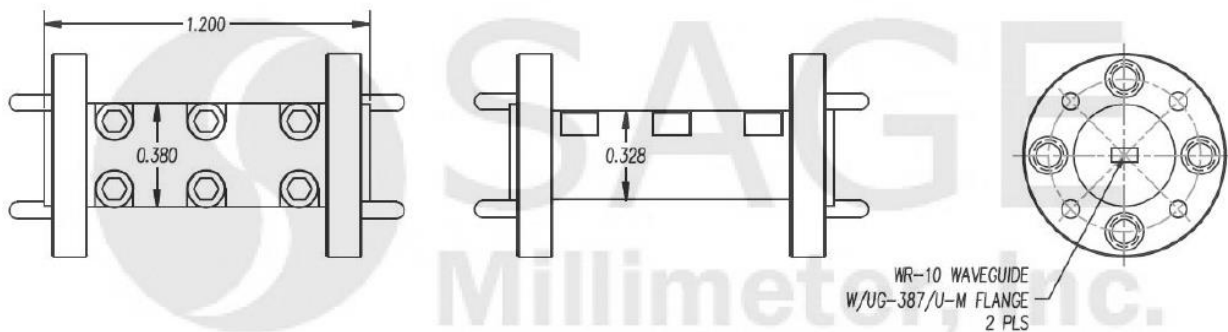


Waveguide Highpass Filter, W Band

Typical Insertion Loss vs. Frequency



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



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit, slightly.
- 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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