

Waveguide Highpass Filter, W Band

Description:

Model SWF-82380340-10-H1 is a W band waveguide highpass filter with a passband frequency of 82 GHz and higher and a rejection frequency from DC to 80 GHz. The filter provides a nominal insertion loss of 1.0 dB in its passband and a typical rejection of 40 dB at 80 GHz and below. Because the passband frequency can be set by modifying the design, other highpass filters with various passband are 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	82 GHz		
Passband Insertion Loss		1.0 dB	
Rejection Frequency	DC		80 GHz
Rejection		40 dB	
Power Handling			100 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

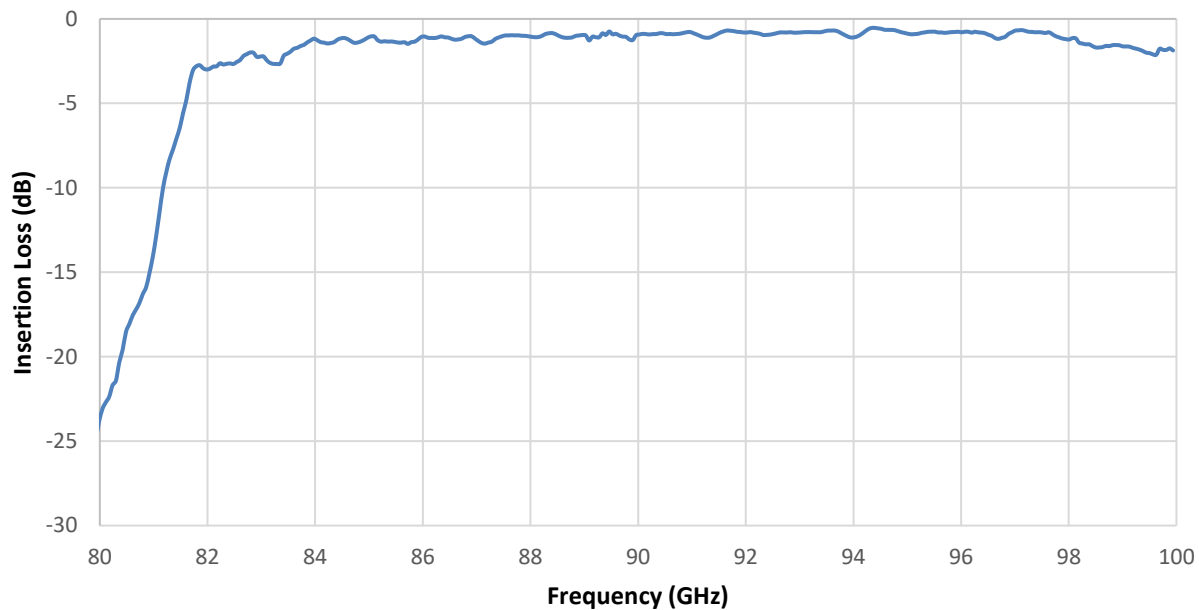
Mechanical Specifications:

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

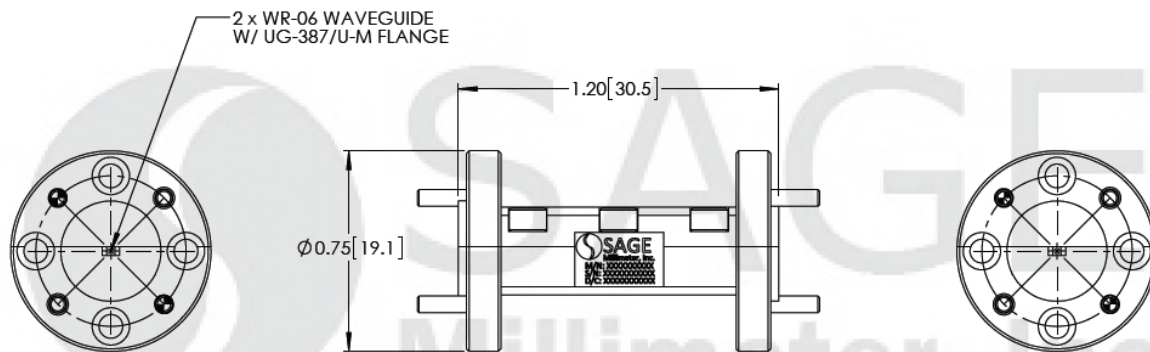


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Typical Insertion Loss vs. Frequency



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



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 cause performance degradation and possible device damage.

