

Waveguide Highpass Filter, D Band, 125 GHz

Description:

**Model SWF-13413480-06-H1-WP** is a D band waveguide highpass filter with a passband frequency of 125 GHz and higher and a rejection frequency from DC to 120 GHz. The filter provides a nominal insertion loss of 3 dB in its passband and a typical rejection of 50 dB at 120 GHz and below. Because the passband frequency can be set by modifying the design, other highpass filters with various passbands are offered under different model numbers.



Features:

- Low Cost
- Low Insertion Loss
- High Rejection

Applications:

- IEEE 802.11ad WiGig Systems
- Communication Systems
- Radar Systems
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	125 GHz		>200 GHz
Passband Insertion Loss		3 dB	
Rejection Frequency	DC		120 GHz
Rejection		50 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

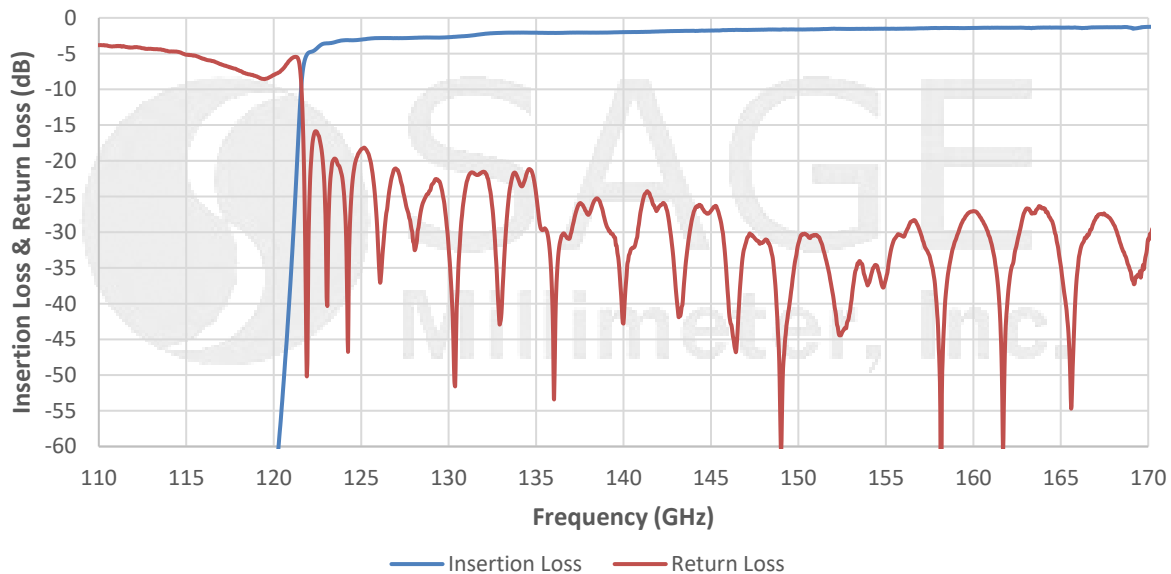
Mechanical Specifications:

Item	Specification
RF Ports	WR-06 Waveguide 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-HD

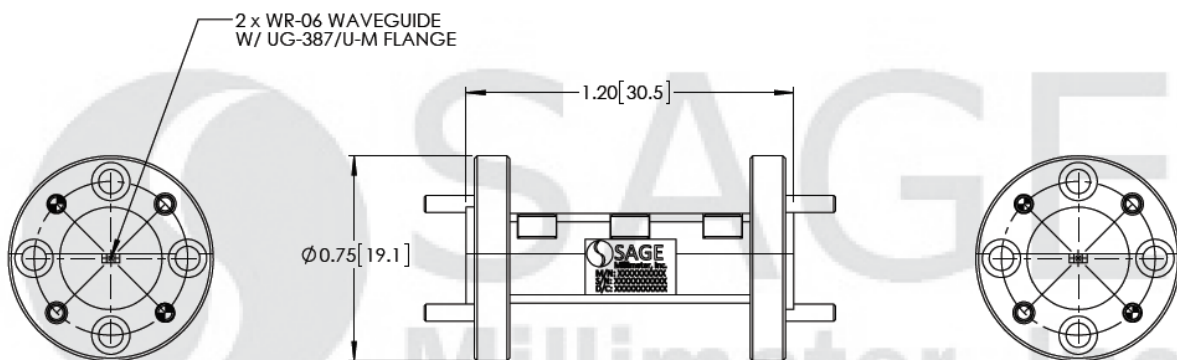


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### Measured Performance vs Frequency



**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.
- All testing was performed under +25 °C case temperature.
- Eravant 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.

