



## Waveguide Highpass Filter, Ka Band, 30 GHz

### Description:

**Model SWF-30326340-28-H1** is a Ka band waveguide highpass filter with a passband frequency of 30 GHz and higher and a rejection frequency from DC to 26 GHz. The filter provides a nominal insertion loss of 0.5 dB across its passband 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	30.0 GHz		
Passband Insertion Loss		0.5 dB	
Rejection Frequency	DC		26.0 GHz
Rejection		40 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

### Mechanical Specifications:

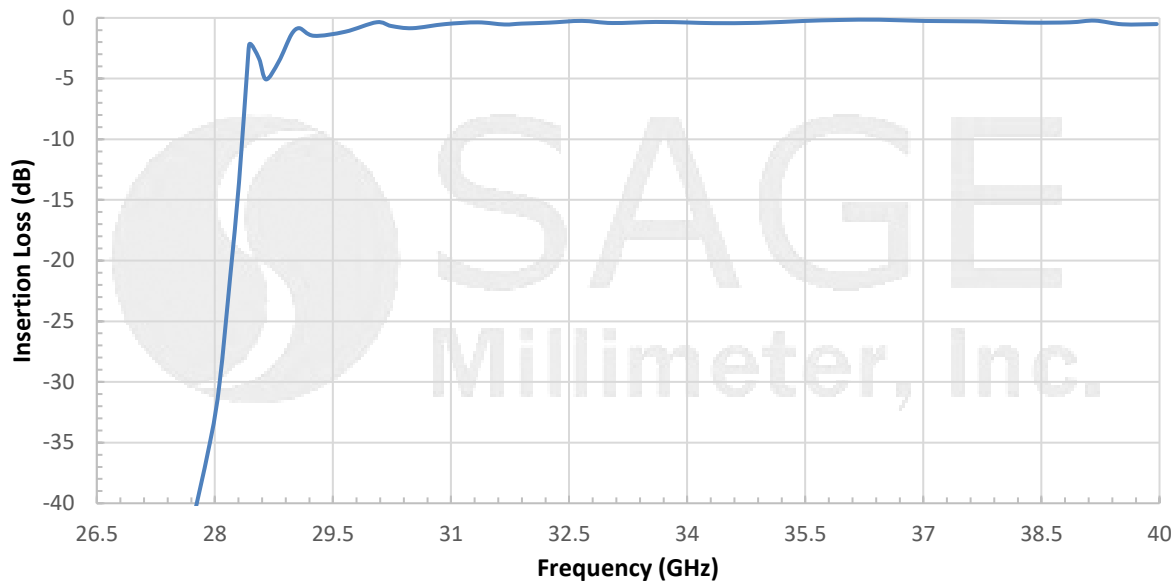
Item	Specification
Waveguide	WR-28 with UG-599/U Flange
Size	2.60" (L) X 0.75" (W) x 0.75" (H)
Material	Brass
Finish	Gold Plated
Weight	3.0 Oz
Outline	WF-HA



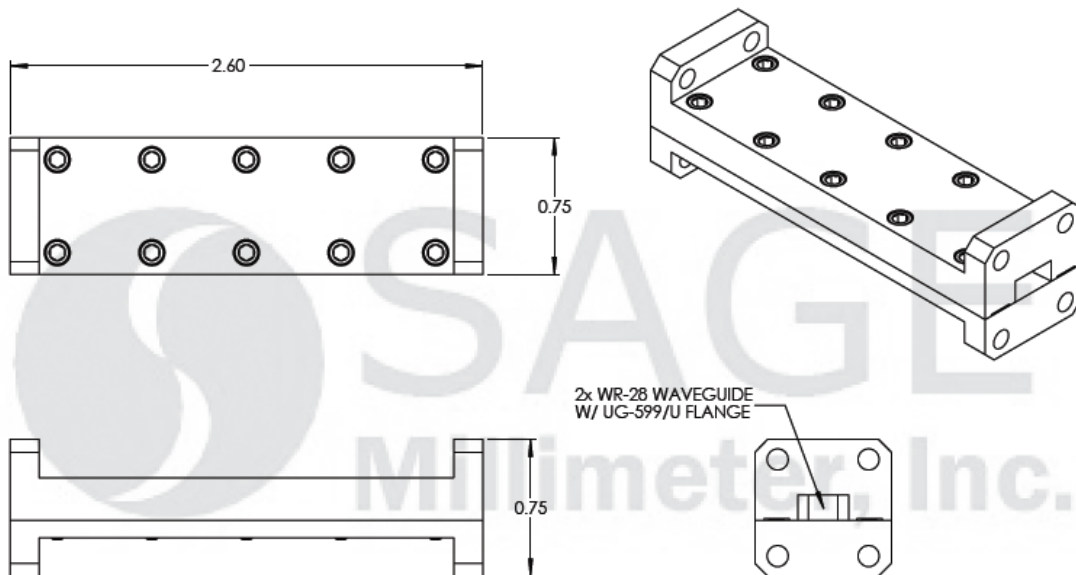


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### Typical Insertion Loss vs. Frequency



### 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.

