

## Waveguide Highpass Filter, Ka Band

### Description:

**Model SWF-27323340-28-H1** is a Ka band waveguide highpass filter with a passband frequency of 26.5 GHz and higher and a rejection frequency from DC to 22.5 GHz. The filter provides a nominal insertion loss of 0.5 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	26.5 GHz		40.0 GHz
Passband Insertion Loss		0.5 dB	
Rejection Frequency	DC		22.5 GHz
Rejection		40 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

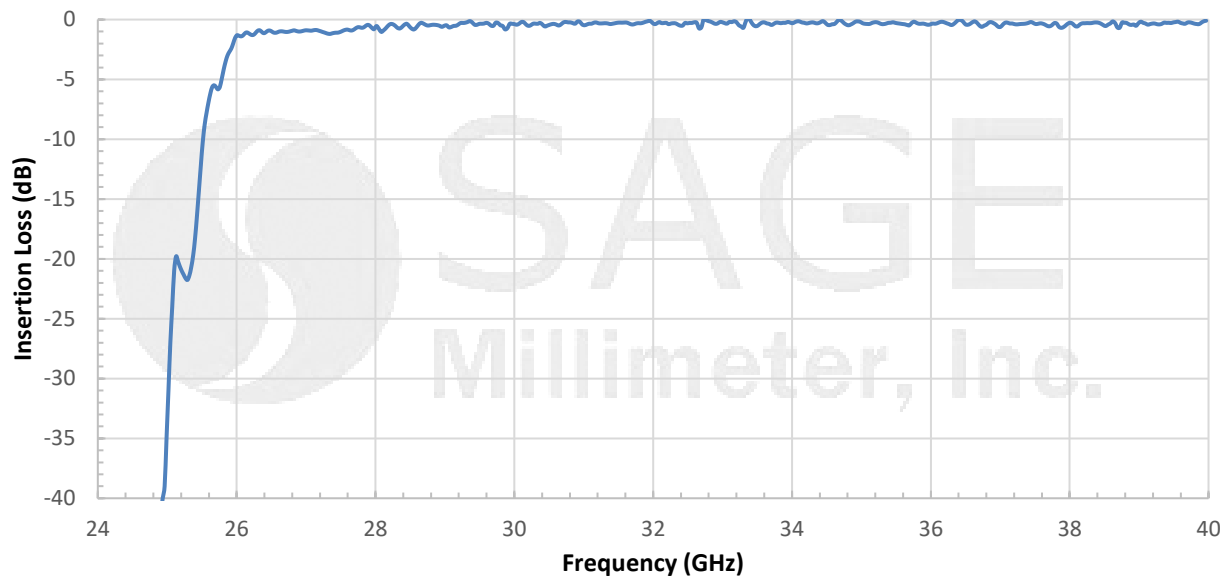
### Mechanical Specifications:

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

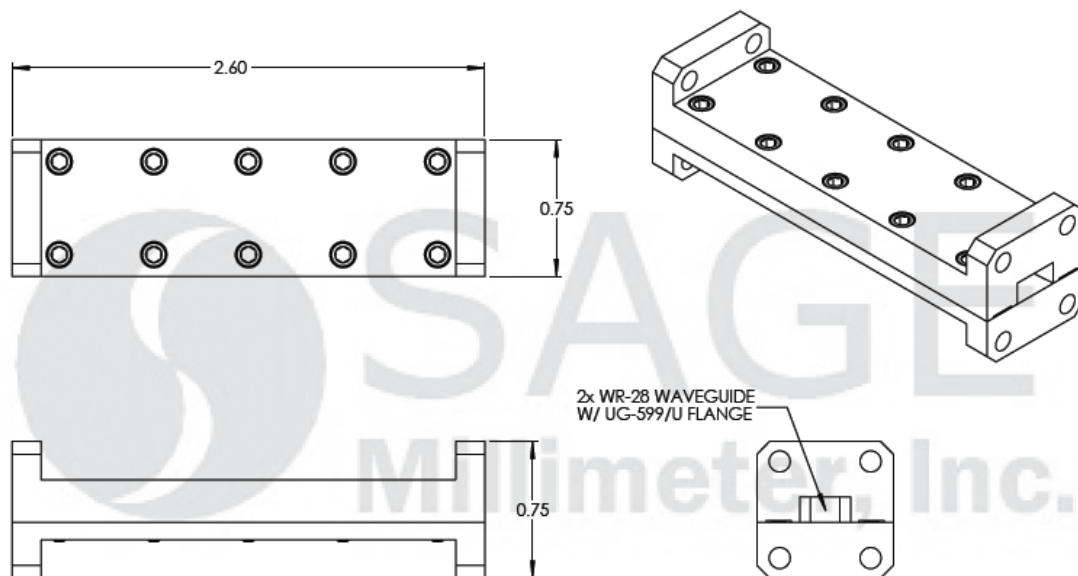


## Waveguide Highpass Filter, Ka Band

### Typical Frequency vs. Insertion Loss



**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.



www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505  
Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com