



## Waveguide Highpass Filter, Ka Band, 28 GHz

### Description:

**Model SWF-28324340-28-H1** is a Ka band waveguide highpass filter with a passband frequency of 28 GHz and higher and a rejection frequency from DC to 24 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	28 GHz		
Passband Insertion Loss		0.5 dB	
Rejection Frequency	DC		24 GHz
Rejection		40 dB	
Power Handling			100 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

### Mechanical Specifications:

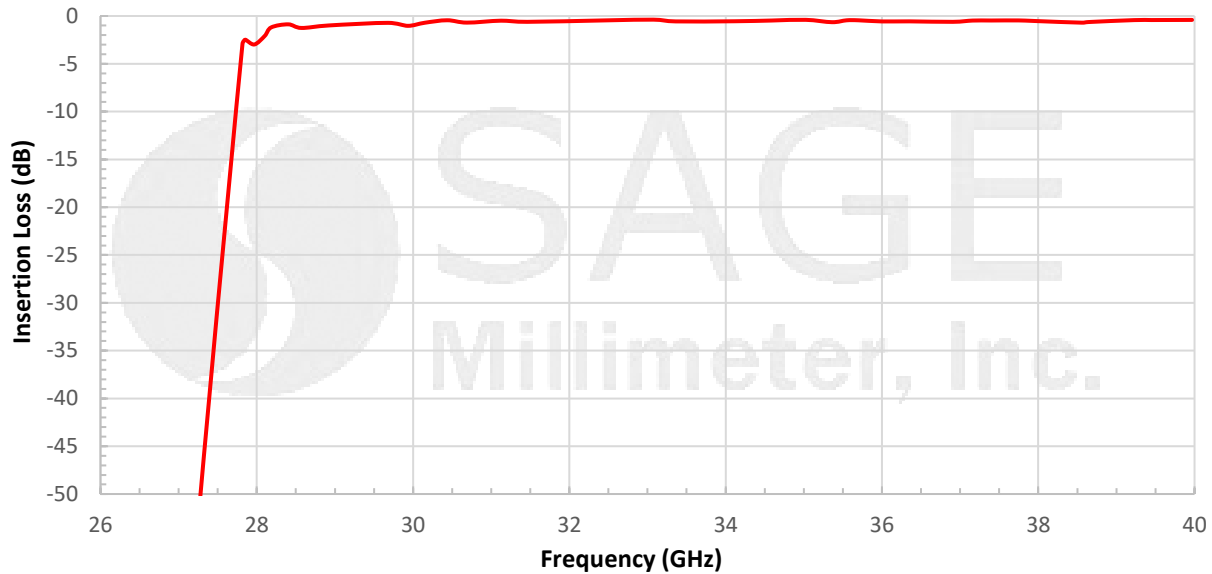
Item	Specification
RF Ports	WR-28 with UG-599/U Flange
Material	Brass
Finish	Gold Plated
Weight	3 Oz
Size	2.60" (L) X 0.75" (W) x 0.75" (H)
Outline	WF-HA



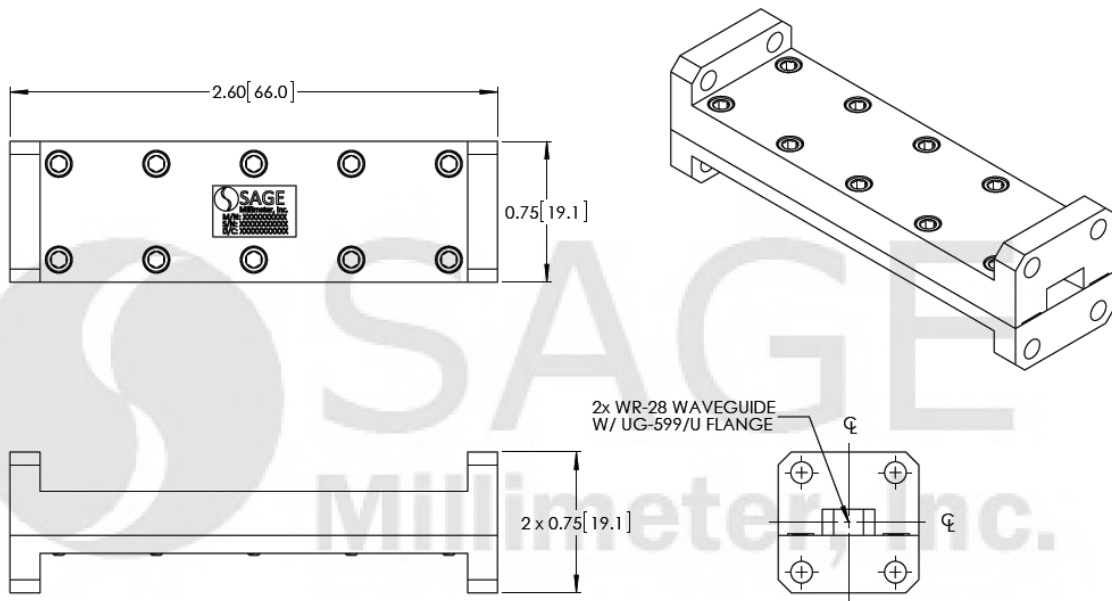


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### Typical Insertion Loss vs. Frequency



**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.
- 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