

## Waveguide Bandpass Filter, Ka Band, 22.0 to 34.0

### Description:

**Model SWF-28312340-28-B1** is a Ka band waveguide bandpass filter with a passband frequency from 22 to 34 GHz and the rejection frequencies of DC to 20 GHz and 37 GHz to 70 GHz, respectively. The filter provides a nominal insertion loss of 1.0 dB across its passband and a typical rejection of 40 dB. Since the high end cutoff frequency can be changed by modifying the design, custom designs can be offered under different model numbers.



### Features:

- Low Insertion Loss
- High Rejection

### Applications:

- 5G Systems
- Test Labs
- Instrumentations
- Sub-assemblies

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	22 GHz		34 GHz
Passband Insertion Loss		1 dB	
Rejection Frequency, Low Side	DC		20 GHz
Rejection Frequency, High Side	37 GHz		70 GHz
Rejection		40 dB	
Passband Return Loss			14 dB
Power Handling			100 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

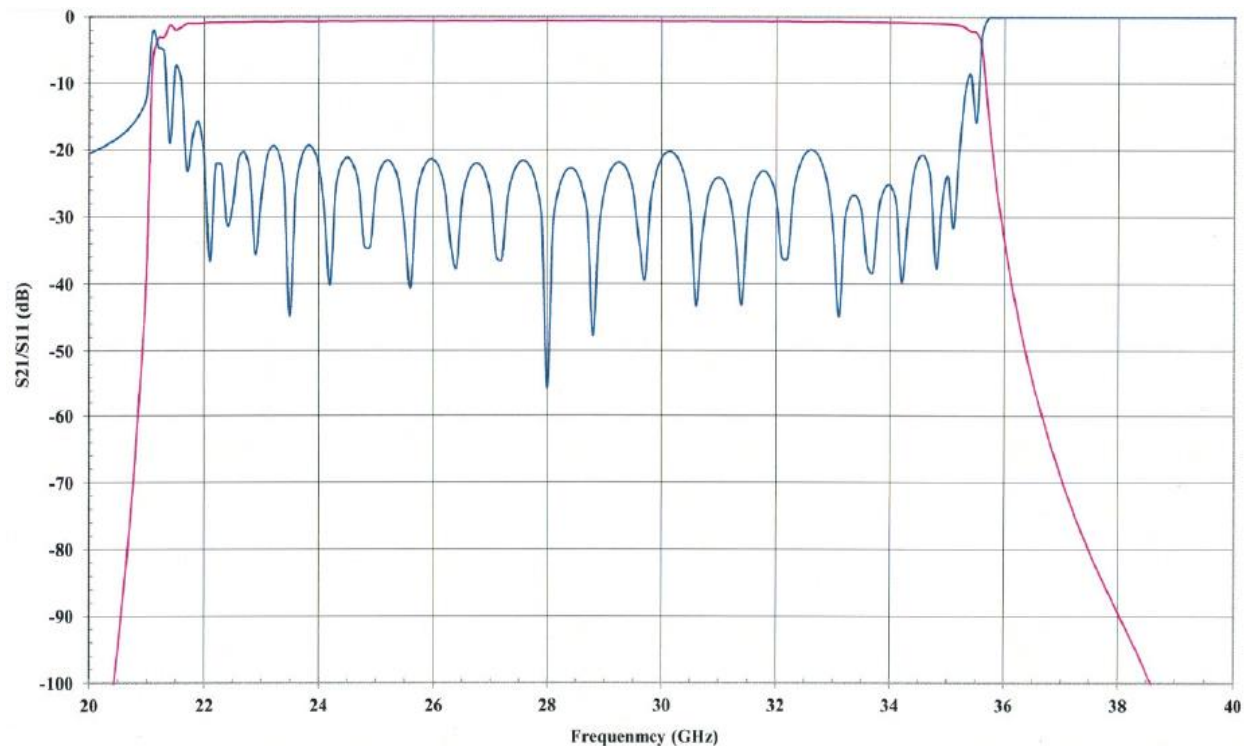
### Mechanical Specifications:

Item	Specification
Waveguide Ports	WR-28 Waveguide with UG-599/U Flange
Material	Brass
Finish	Gold Plated
Weight	8.7 Oz
Size	3.60" (L) X 0.75" (W) x 0.75" (H)
Outline	WF-LA-3.6

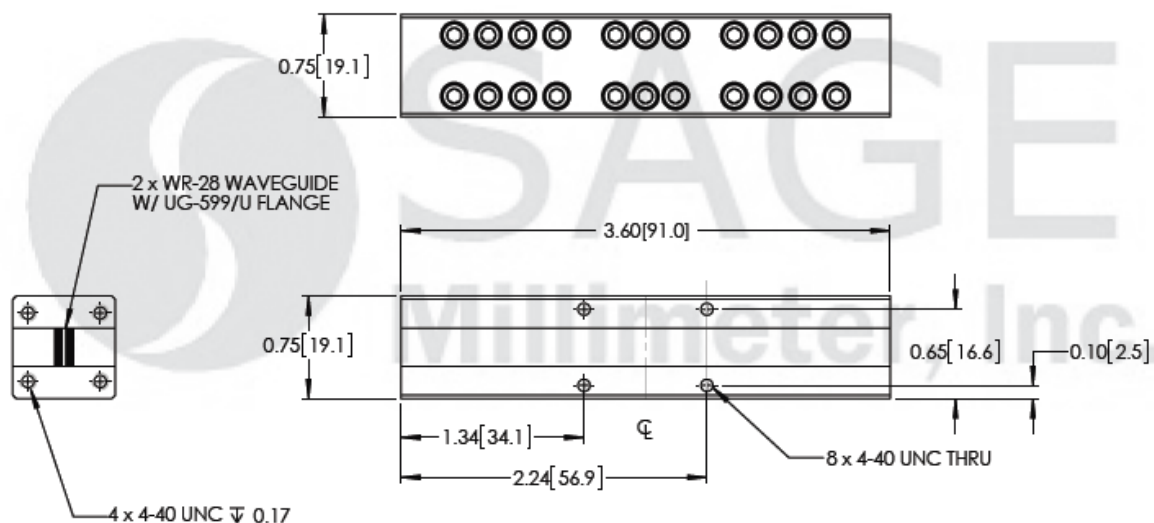


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## Simulated Data:



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



## Note:

- All data presented are simulated. Actual data may vary.
- 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.



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