



## Waveguide Bandpass Filter, Ka Band, 22.0 to 35.0 GHz

### Description:

**Model SWF-30313340-28-B1** is a Ka band waveguide bandpass filter with a passband frequency from 22 to 35 GHz and a rejection frequency of 1 kHz to 20 GHz and 40 to 72 GHz, respectively. The filter provides a nominal insertion loss of 1.0 dB across its passband and a typical rejection of 40 dB. Since both low and high end cutoff frequencies can be changed by modifying the design, custom designs can be offered under different model numbers.



### Features:

- Low Insertion Loss
- High Rejection

### Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency*	22.0 GHz		35.0 GHz
Passband Insertion Loss		1.0 dB	
Rejection Frequency, Low Side	1 kHz		20.0 GHz
Rejection Frequency, High Side	40.0 GHz		72.0 GHz
Rejection		40 dB	
Passband VSWR			1.5:1
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

### Mechanical Specifications:

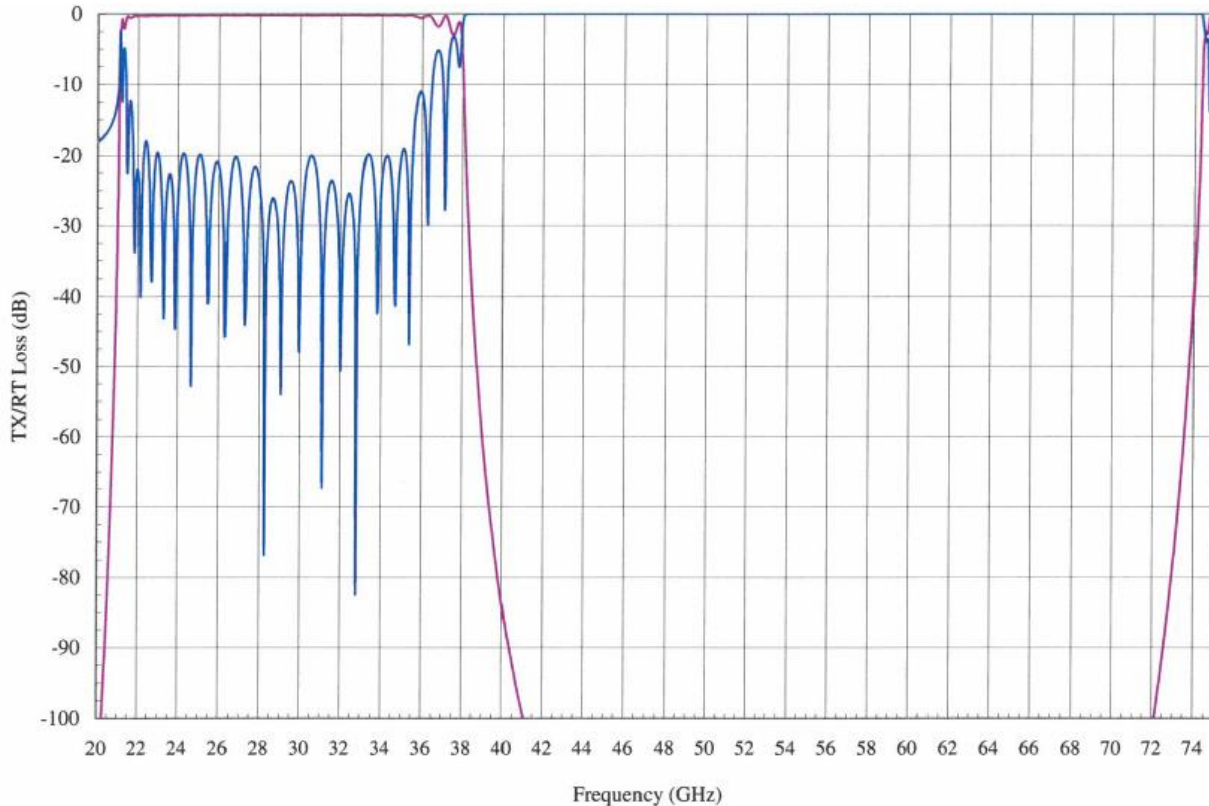
Item	Specification
Waveguide	WR-28 Waveguide with UG-599/U Flange
Size	3.60" (L) X 0.75" (W) x 0.75" (H)
Material	Brass
Finish	Gold Plated
Weight	8.7 Oz
Outline	WF-LA-3.6



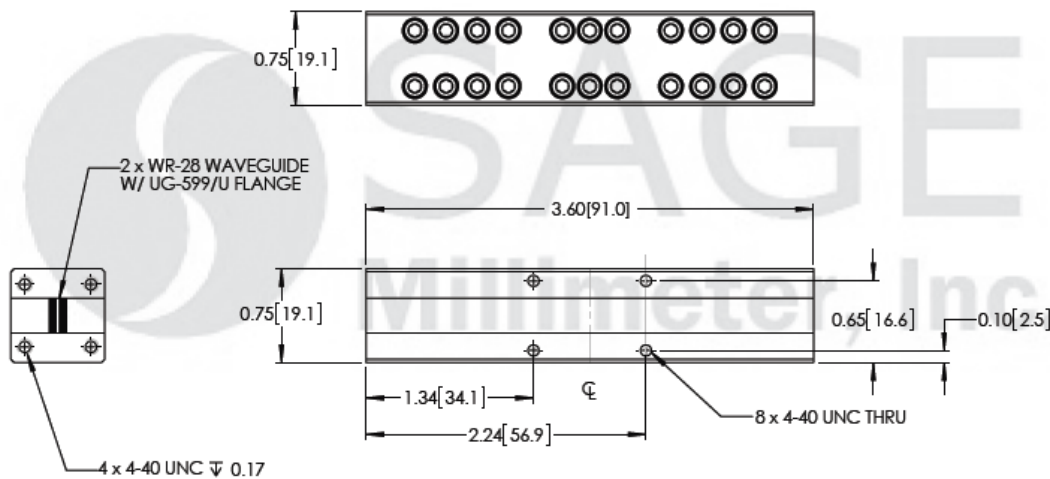


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### Simulated Data:



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



### Note:

- 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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