



## Waveguide Highpass Filter, K Band, 24.1 GHz and Higher

### Description:

**Model SWF-24323340-42-H1** is a K band waveguide highpass filter with a passband frequency of 24.1 GHz and higher and a rejection frequency from DC to 23.1 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	24.1 GHz		
Passband Insertion Loss		0.5 dB	
Rejection Frequency	DC		23.1 GHz
Rejection		40 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

### Mechanical Specifications:

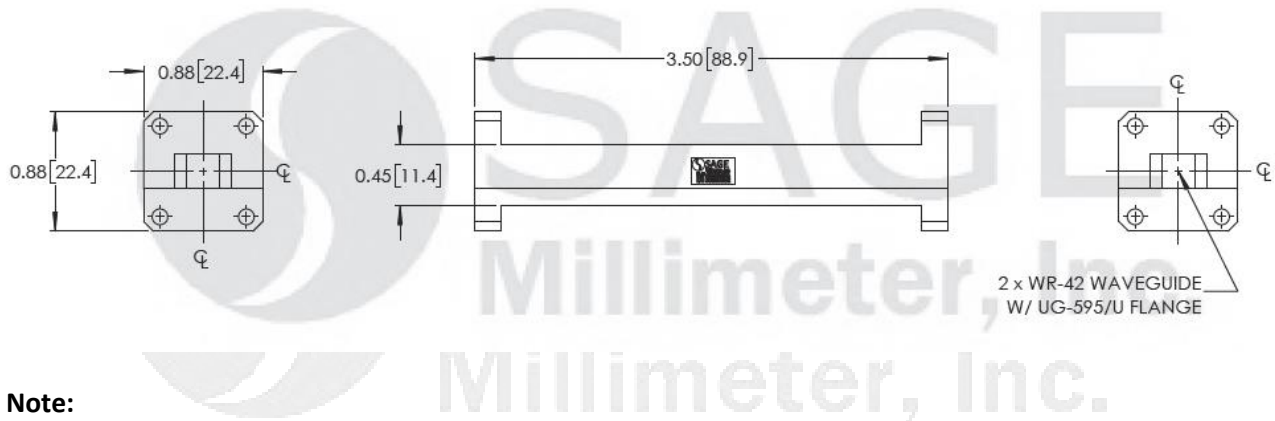
Item	Specification
Waveguide	WR-42 with UG-595/U Flange
Material	Aluminum
Finish	Gold Plated
Weight	3.0 Oz
Size	3.50" (L) X 0.88" (W) x 0.88" (H)
Outline	WF-HK

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



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

## Waveguide Highpass Filter, K Band, 24.1 GHz and Higher



### 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.

