# SWF-34330340-22-H1

# Waveguide Highpass Filter, Q Band, 34 GHz

## **Description:**

**Model SWF-34330340-22-H1** is a Q band waveguide highpass filter with a passband frequency of 34 GHz and higher and a rejection frequency from DC to 31 GHz. The filter provides a nominal insertion loss of 2.0 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	34 GHz		
Passband Insertion Loss		2.0 dB	
Rejection Frequency	DC		31 GHz
Rejection		40 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

#### **Mechanical Specifications:**

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ltem	Specification	
Waveguide	WR-22 with UG-383/U Flange	1
Size	2.40" (L) X 1.125" (Ø)	
Material	Aluminum	
Finish	Gold Plated	
Weight	1.4 Oz	
Outline	WF-HQ-2.4-2	



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

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### Typical Insertion Loss vs. Frequency



#### 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.



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