SWF-82308360-10-B1

Advanced

Waveguide Bandpass Filter, W Band, 78 to 86 GHz

Description:

Model SWF-82308360-10-B1 is a W band waveguide bandpass filter with a passband frequency of 78 to 86 GHz as well as rejection frequencies from 60 to 73 GHz and 91 to 110 GHz. The nominal insertion loss of the bandpass filter is 2.0 dB and the typical rejection is 60 dB. Since both low end and high end cut off frequencies can be selected by modifying the design, custom designs are available 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	78 GHz		86 GHz
Passband Insertion Loss		2.0 dB	
Passband Ripple		±0.5 dB	
Rejection Frequency, Low Side	60 GHz		73 GHz
Rejection Frequency, High Side	91 GHz		110 GHz
Rejection		60 dB	
Passband Return Loss		14 dB	
Specification Temperature		+25˚C	
Operating Temperature	-40˚C		+85˚C

Mechanical Specifications:

Item	Specification
Waveguide	WR-10 Waveguide with UG-387/U-M Flange
Size	2.20” (L) X 0.75” (W)
Material	Brass
Finish	Gold Plated
Weight	5.4 Oz
Outline	WF-BW-2.2

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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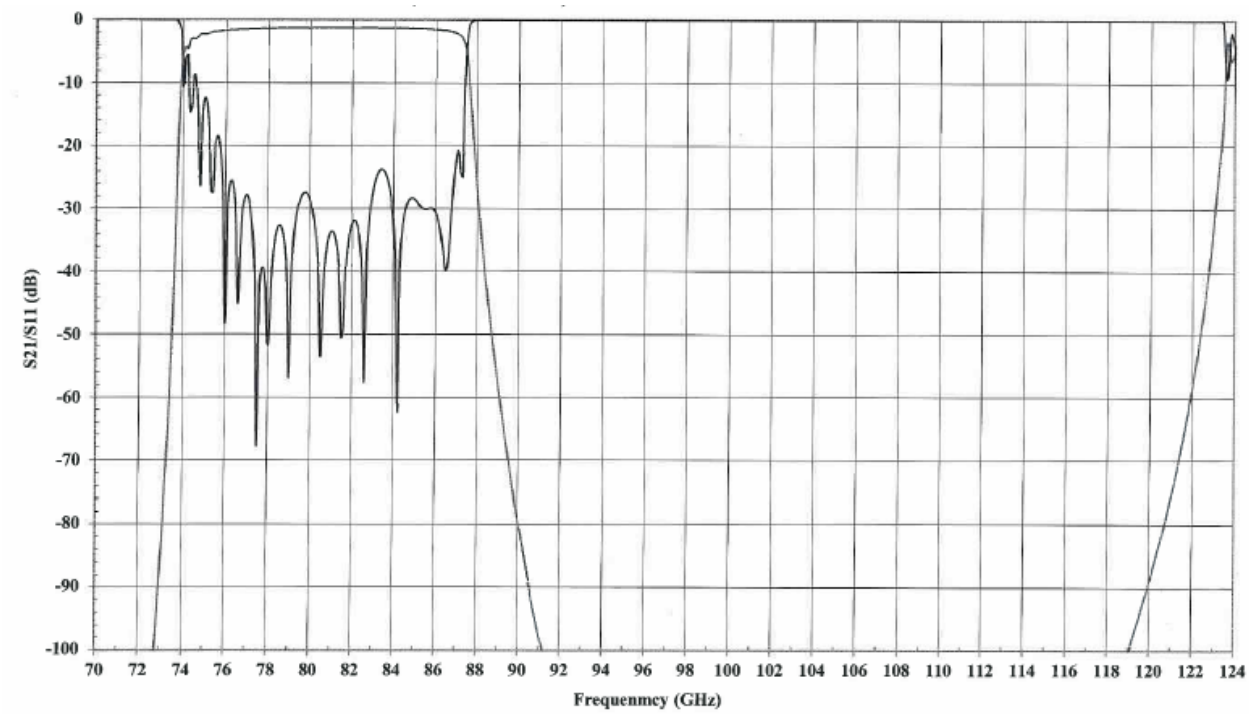
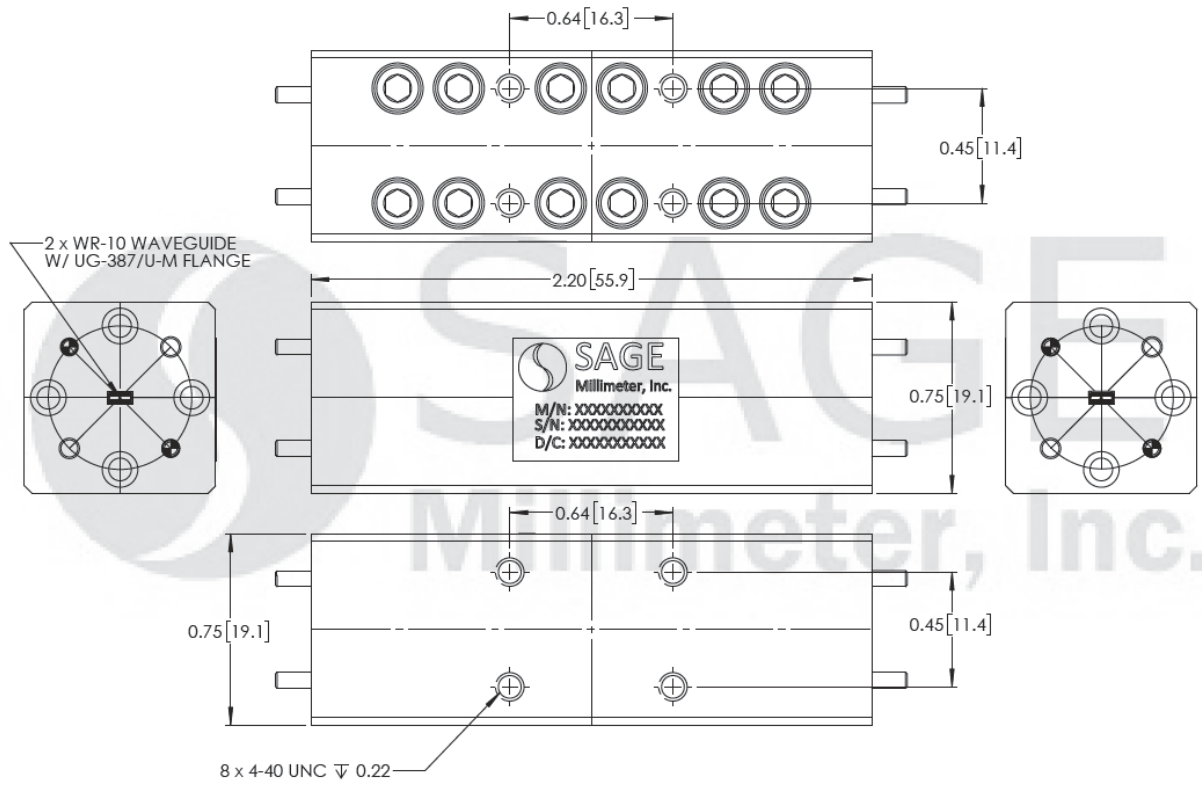
Simulated Data



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



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Note:

- All data presented is simulated. Actual data may vary, slightly.
- 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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