



Waveguide Lowpass Filter, Ka Band, 22.0 to 35.0 GHz

Description:

Model SWF-35340340-28-L1 is a Ka band waveguide lowpass filter with a passband frequency from 22 to 35 GHz and a rejection frequency of 40 GHz to 72 GHz. 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:

- IEEE 802.11ad WiGig Systems
- Test Labs
- Instrumentations
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency*	22 GHz		35 GHz
Passband Insertion Loss		1 dB	
Rejection Frequency, Low Side	DC		20 GHz
Rejection Frequency, High Side	40 GHz		72 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:

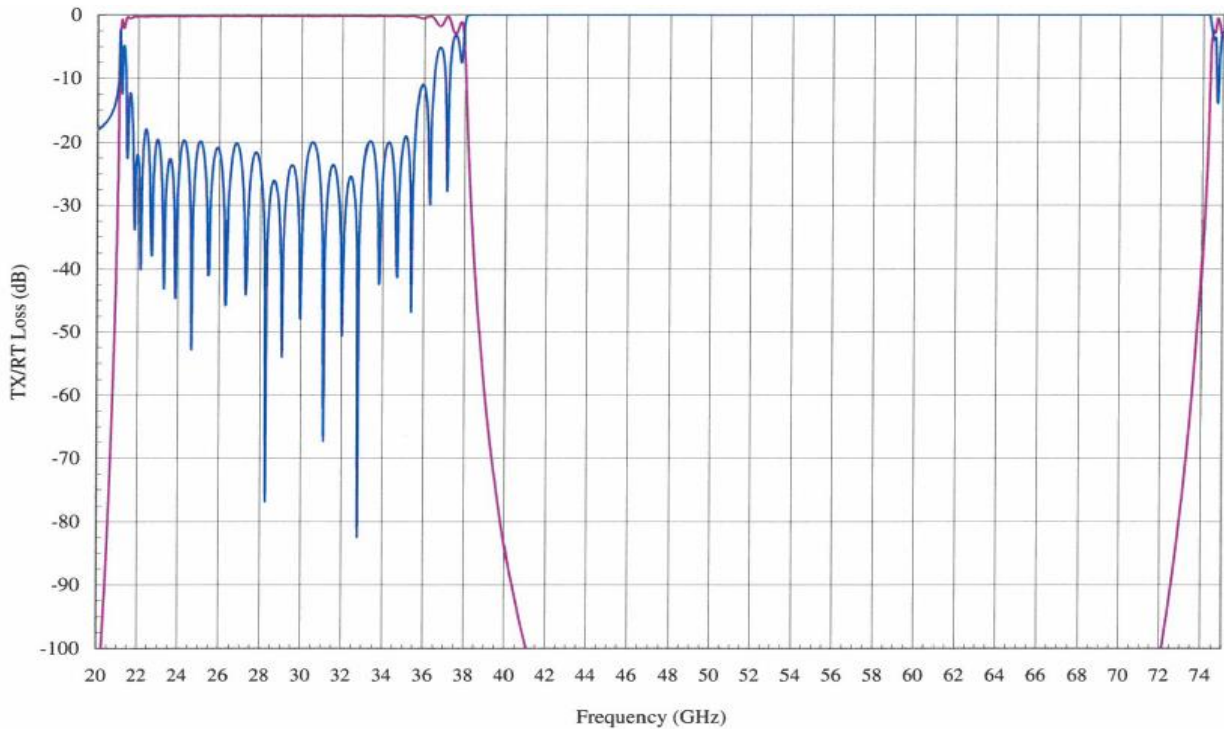
Item	Specification
Waveguide Ports	WR-28 Waveguide with UG-599/U Flange
Material	Brass
Finish	Gold Plated
Weight	8.7 Oz
Size	3.60" (L) X 0.75" (W) x 0.75" (H)
Outline	WF-LA-3.6



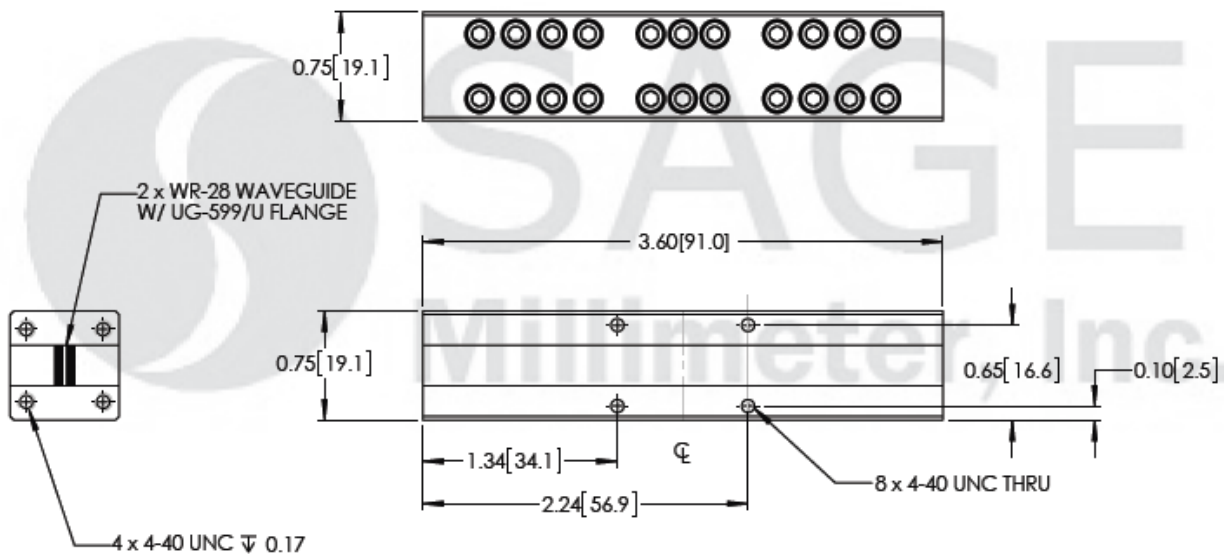


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Simulated Data:



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



Note:

- All data presented were 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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