SWF-22412340-04-B1-WP

Waveguide Bandpass Filter, WR-04 Band, 212 to 224 GHz

SWF-22412340-04-B1-WP is an WR-04 waveguide bandpass filter with a passband frequency of 212 to 224 GHz. The bandpass filter has rejection frequencies from DC to 205 GHz and 232 to 260 GHz with a typical rejection of 40 dB. The nominal insertion loss of the bandpass filter is 2 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.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency Range	212 GHz		224 GHz
Passband Insertion Loss		2 dB	
Rejection Frequency, Low Side	DC		205 GHz
Rejection Frequency, High Side	232 GHz		260 GHz
Rejection		40 dB	
Passband Return Loss		14 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification		
Waveguide	WR-04 Waveguide with UG-387/U-M Anti-Cocking Flange		
Material	Brass		
Finish	Gold Plated		
Outline	WF-B04-A-0.5		

ECCN EAR99

FEATURES

- Low Cost
- Low Insertion Loss
- High Rejection

APPLICATIONS

- Communication Systems
- Radar Systems
- Sub-assemblies

SUPPLEMENTAL DETAILS







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



NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

• If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.

