SWF-30311340-28-B1-WPC

Waveguide Bandpass Filter, Ka-Band, 24 to 35 GHz

SWF-30311340-28-B1-WPC is a Ka band waveguide bandpass filter with a passband frequency of 24 to 35 GHz as well as rejection frequencies from DC to 22 GHz and 48 to 70 GHz. The nominal insertion loss of the bandpass filter is 2 dB and the typical rejection is 40 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	24 GHz		35 GHz
Passband Insertion Loss		2 dB	
Rejection Frequency Low Side	DC		22 GHz
Rejection Frequency High Side	48		70 GHz
Rejection		40 dB	
VSWR		1.5:1	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification			
RF Ports	WR-28 Waveguide with UG-599/U Flange			
Material	Aluminum			
Finish	Gold Plated			
Overall Length	4"			
Outline	WF-BA-4.0			



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• Low Cost

APPLICATIONS

Radar Systems

Sub-assemblies

Low Insertion Loss High Rejection

Communication Systems

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.

