SWF-28301340-28-B1-D

SWF-28301340-28-B1-D is a Ka band waveguide, dual bandpass filter

Waveguide Dual Bandpass Filter, Ka Band,

with passband frequencies from 27.5 to 28.5 GHz and 38.0 GHz to 40.0 GHz and rejection frequencies from DC to 25.5 GHz, 32 to 35.5 GHz, and 43 to 49 GHz. The filter is designed for 5G frequency band, 28 GHz and 39 GHz system applications, particularly. The nominal insertion loss of the bandpass filter is 4.5 dB and the typical rejection is 40 dB. Since the passband frequencies can be changed by modifying the design, custom designs can be offered under different model numbers.

NEXT GENERATION MILLIMETERMAVE COMPONEN

Electrical Specifications:

28 GHz and 39 GHz

Parameter	Minimum	Typical	Maximum
Passband Frequency 1	27.5 GHz	28 GHz	28.5 GHz
Passband Frequency 2	38 GHz	39 GHz	40 GHz
Passband Insertion Loss		4.5 dB	
Rejection Frequency 1	DC		25.5 GHz
Rejection Frequency 2	32 GHz		35.5 GHz
Rejection Frequency 3	43 GHz		49 GHz
Rejection		40 dB	
Passband Return Loss		10 dB	
Power Handling			100 W
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification		
Waveguide	WR-28 Waveguide with UG-599/U Flange		
Material	Brass		
Finish	Gold Plated		
Weight	12.6 Oz		
Size	6.50" (L) X 0.75" (W) X 0.75" (H)		
Outline	WF-BA-6.5-D		

ECCN EAR99

FEATURES

- Dual Passband, 28 GHz and 39 GHz
- Waveguide Interface
- High Rejection

APPLICATIONS

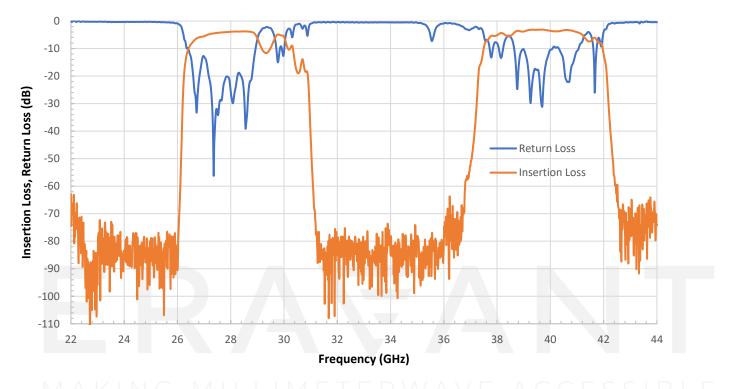
- 5G Systems
- Communication Systems
- Sub-assemblies

SUPPLEMENTAL DETAILS



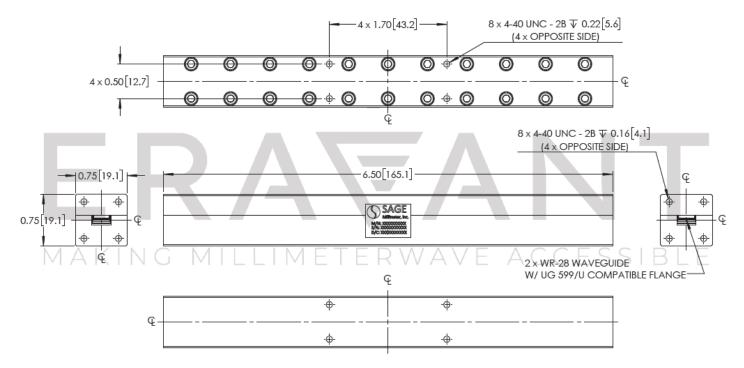
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Typical Performance vs. Frequency

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



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NOTE:

- Data provided is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.
- For 1 mm connectors proper torque should be applied: 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm). Torque wrench model <u>SCH-06004-S1</u> is highly recommended.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model <u>SCH-08008-S1</u> is highly recommended.

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