

## Bandpass Cavity Filter Operating from 2.01 GHz to 2.025 GHz with a 25 MHz Passband Bandwidth with SMA Female Connectors



### FMFL1028

#### Features

- Passband Bandwidth of 25 MHz
- High Rejection
- Cavity filter design
- Min rejection 60 dB at 1.9775 GHz
- Min rejection 60 dB at 2.0575 GHz
- Maximum insertion loss of 1 dB
- Female SMA connectors

#### Applications

- Test and Measurement
- Lab Instrumentation
- Antenna Systems

#### Description

The FMFL1028 is a six section band pass filter that is used for filtering for test and measurement, lab instrumentation, and antenna systems uses. The passband bandwidth is 25 MHz. Implementing a cavity design, the filter has excellent rejection of 60 dB at 1.9775 GHz and 2.0575 GHz. It has a maximum insertion loss of 1 dB. The FMFL1028 has SMA female connectors.

#### Electrical Specifications

Description	Min	Typ	Max	Units
Passband Frequency	2.01		2.025	GHz
Impedance		50		Ohms
Insertion Loss		0.8	1	dB
Passband VSWR		1.25:1	1.3:1	
Rejection at 1.9775 GHz	60			dB
Rejection at 2.0575 GHz	60			dB
Passband Ripple		0.4	0.5	dB
Input Power, CW			50	Watts
Input Power, Peak			200	Watts

Electrical Specification Notes:  
Values at 25°C, sea level.

#### Mechanical Specifications

##### Size

Length	3.47 in [88.14 mm]
Width	1.02 in [25.91 mm]
Height	2.36 in [59.94 mm]
Weight	0.5 lbs [226.8 g]
Body Material and Plating	Aluminum
Finish	Grey Paint

##### Configuration

Number of Sections	6
Connector 1	SMA Female
Connector 2	SMA Female

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**Environmental Specifications**

**Temperature**

Operating Range  
Storage Range

-25 to +70 deg C  
-45 to +85 deg C

**Environment**

Humidity  
Shock  
Vibration  
Altitude

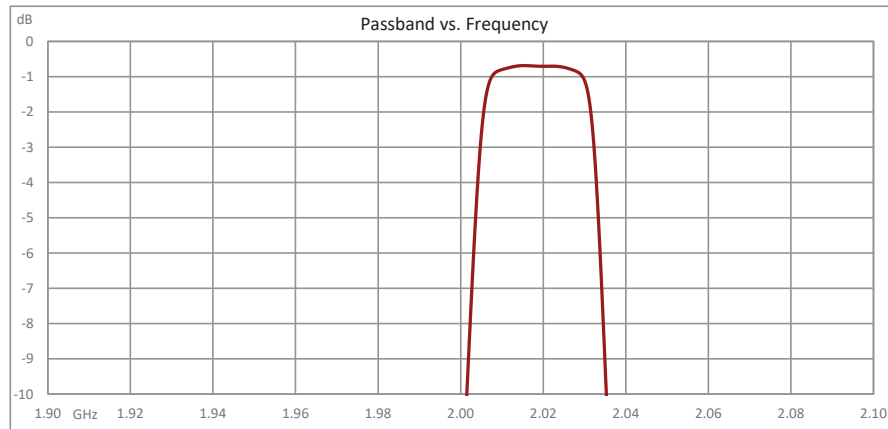
100% RH at 35°C, 95% RH at 40°C  
20G for 11msec half sine wave, 3 axis both directions  
25g RMS (15 degrees 2KHz) endurance, 1 hour per axis  
30,000 ft. (Epoxy Sealed Controlled Environment)

**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:  
Values at 25°C, sea level.

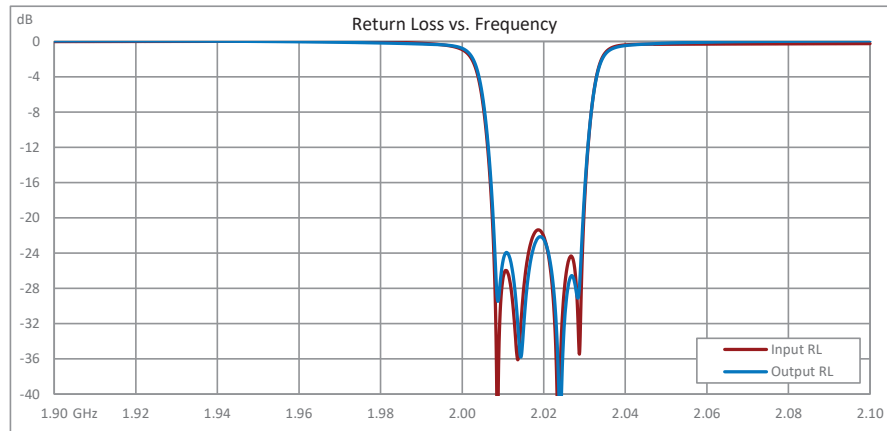
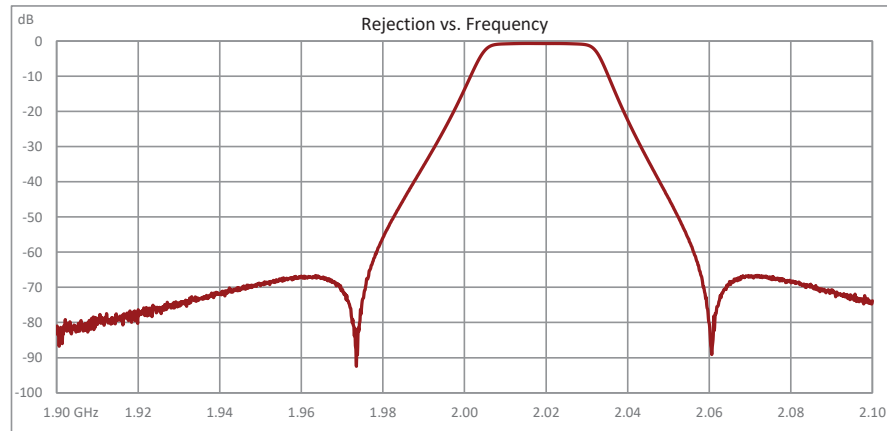
**Typical Performance Data**



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For additional information on this product, please click the following link: [Bandpass Cavity Filter Operating from 2.01 GHz to 2.025 GHz with a 25 MHz Passband Bandwidth with SMA Female Connectors FMFL1028](https://www.fairviewmicrowave.com/bandpass-cavity-filter-2.01-2.025-ghz-sma-female-connectors-fmfl1028-p.aspx)

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FMFL1028 CAD Drawing

Bandpass Cavity Filter Operating from 2.01 GHz to 2.025 GHz with a 25 MHz Passband Bandwidth with SMA Female Connectors

