

## Bandpass Cavity Filter Operating from 2.5 GHz to 2.7 GHz with a 235 MHz Passband Bandwidth with SMA Female Connectors



### FMFL1029

#### Features

- Passband Bandwidth of 235 MHz
- High Rejection
- Cavity filter design
- Min rejection 60 dB at DC to 2.4 GHz
- Min rejection 60 dB at 2.8 GHz to 7.2 GHz
- Maximum insertion loss of 0.5 dB
- Female SMA connectors

#### Applications

- Test and Measurement
- Lab Instrumentation
- Antenna Systems

#### Description

The FMFL1029 is a eight section band pass filter that is used for filtering for test and measurement, lab instrumentation, and antenna systems uses. The passband bandwidth is 235 MHz. Implementing a cavity design, the filter has excellent rejection of 60 dB at 2.4 GHz and 2.8 GHz. It has a maximum insertion loss of 0.5 dB. The FMFL1029 has SMA female connectors.

#### Electrical Specifications

Description	Min	Typ	Max	Units
Passband Frequency	2.5		2.7	GHz
Impedance		50		Ohms
Insertion Loss			0.5	dB
Passband Return Loss	18	19		dB
Rejection at 2.4 GHz	60	65		dB
Rejection at 2.8 GHz	60	65		dB
Input Power, Peak			100	Watts

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

#### Mechanical Specifications

##### Size

Length	3.35 in [85.09 mm]
Width	0.79 in [20.07 mm]
Height	1.77 in [44.96 mm]
Weight	0.287 lbs [130.18 g]
Body Material and Plating	Aluminum
Finish	Grey Paint

##### Configuration

Number of Sections	8
Connector 1	SMA Female
Connector 2	SMA Female

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**Environmental Specifications**

**Temperature**

Operating Range -20 to +70 deg C  
Storage Range -40 to +85 deg C

**Environment**

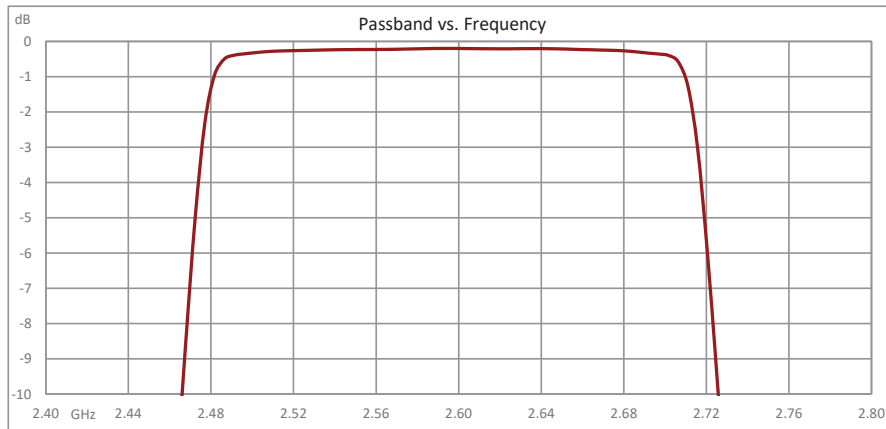
Humidity 100% RH at 35°C, 95% RH at 40°C  
Shock 20G for 11msec half sine wave, 3 axis both directions  
Vibration 25g RMS (15 degrees 2KHz) endurance, 1 hour per axis  
Altitude 30,000 ft. (Epoxy Sealed Controlled Environment)

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

**Plotted and Other Data**

Notes:  
Values at 25°C, sea level.

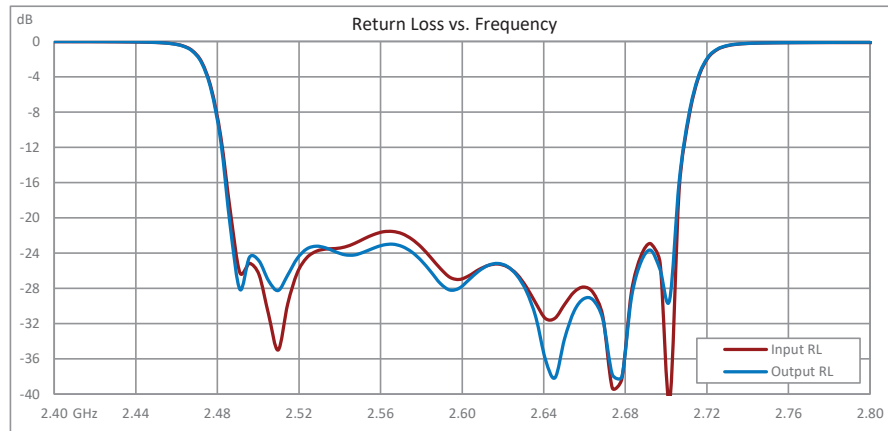
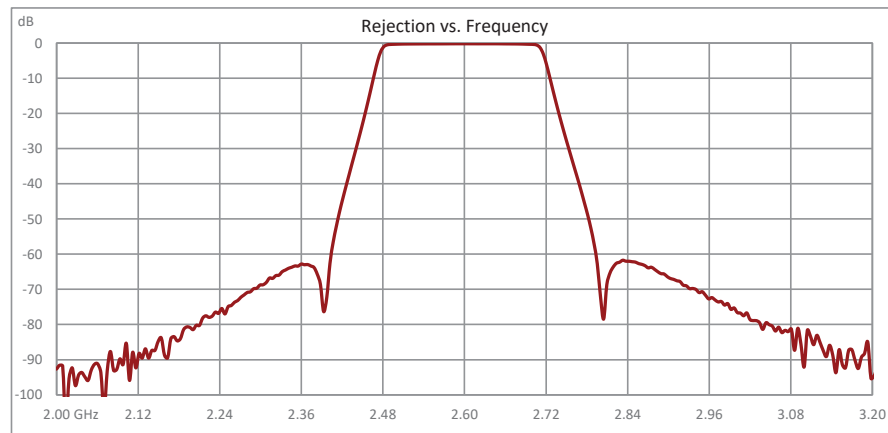
**Typical Performance Data**



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For additional information on this product, please click the following link: [Bandpass Cavity Filter Operating from 2.5 GHz to 2.7 GHz with a 235 MHz Passband Bandwidth with SMA Female Connectors FMFL1029](https://www.fairviewmicrowave.com/bandpass-cavity-filter-2.5-2.7-ghz-sma-female-connectors-fmfl1029-p.aspx)

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# FMFL1029 CAD Drawing

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