

# Bandpass Cavity Filter Operating from 2.4 GHz to 2.484 GHz with a 165 MHz Passband Bandwidth with SMA Female Connectors



## **FMFL1020**

#### **Features**

- · Passband Bandwidth of 165 MHz
- · High Rejection
- · Cavity filter design
- Min rejection 50 dB at DC to 2.1 GHz

## **Applications**

- · Test and Measurement
- Lab Instrumentation

- Min rejection 50 dB at 2.8 GHz to 6 GHz
- Maximum insertion loss of 0.5 dB
- · Female SMA connectors
- Antenna Systems

### **Description**

The FMFL1020 is a four section band pass filter that is used for filtering for test and measurement, lab instrumentation, and antenna systems uses. The passband bandwidth is 165 MHz. Implementing a cavity design, the filter has excellent rejection of 50 dB at 2.1 GHz and 2.8 GHz. It has a maximum insertion loss of 0.5 dB. The FMFL1020 has SMA female connectors.

### **Electrical Specifications**

Description	Min	Тур	Max	Units
Passband Frequency	2.4		2.484	GHz
Impedance		50		Ohms
Insertion Loss		0.3	0.5	dB
Passband VSWR		1.25:1	1.3:1	
Rejection at 2.1 GHz	50	54		dB
Rejection at 2.8 GHz	50	54		dB
Passband Ripple		0.15	0.3	dB
Input Power, CW			50	Watts
Input Power,			500	Watts
Peak				

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

## **Mechanical Specifications**

Size

 Length
 2.44 in [61.98 mm]

 Width
 0.83 in [21.08 mm]

 Height
 2.44 in [61.98 mm]

 Weight
 0.34 lbs [154.22 g]

 Body Material and Plating
 Aluminum

Body Material and Plating Aluminum Finish Grey Paint

Configuration

Number of Sections

Connector 1 SMA Female
Connector 2 SMA Female



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### **Environmental Specifications**

**Temperature** 

Operating Range -25 to +60 deg C Storage Range -40 to +85 deg C

**Environment** 

Humidity100% RH at 35°C, 95% RH at 40°CShock20G for 11msec half sine wave, 3 axis both directionsVibration25g RMS (15 degrees 2KHz) endurance, 1 hour per axisAltitude30,000 ft. (Epoxy Sealed Controlled Environment)

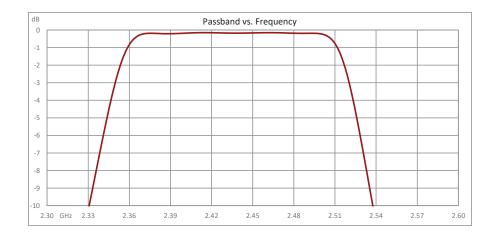
Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

Values at 25°C, sea level.

### **Typical Performance Data**

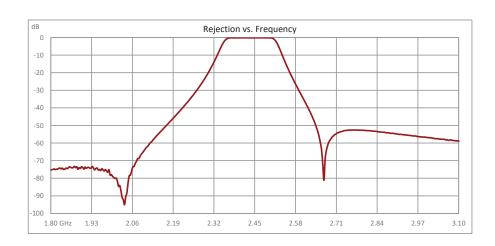


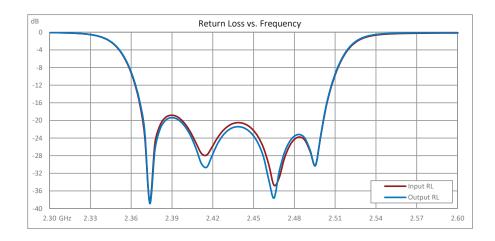


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Bandpass Cavity Filter Operating from 2.4 GHz to 2.484 GHz with a 165 MHz Passband Bandwidth with SMA Female Connectors from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Bandpass Cavity Filter Operating from 2.4 GHz to 2.484 GHz with a 165 MHz Passband Bandwidth with SMA Female Connectors FMFL1020

URL: https://www.fairviewmicrowave.com/bandpass-cavity-filter-2.4-2.484-ghz-sma-female-connectors-fmfl1020-p.aspx

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# FMFL1020 CAD Drawing

Bandpass Cavity Filter Operating from 2.4 GHz to 2.484 GHz with a 165 MHz Passband Bandwidth with SMA Female Connectors

