



#### **FMFL1021**

#### **Features**

- · Passband Bandwidth of 25 MHz
- · High Rejection
- · Cavity filter design
- Min rejection 70 dB at 0.5 GHz to 3.5 GHz

#### **Applications**

- · Test and Measurement
- · Lab Instrumentation

- Min rejection 70 dB at 4.5 GHz to 11 GHz
- · Maximum insertion loss of 1.5 dB
- · Female SMA connectors
- · Very high Q factor and high selectivity
- Antenna Systems

#### Description

The FMFL1021 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 25 MHz. Implementing a cavity design, the filter has excellent rejection of 70 dB at 3.5 GHz and 4.5 GHz. It has a maximum insertion loss of 1.5 dB. The FMFL1021 has SMA female connectors.

#### **Electrical Specifications**

Description	Min	Тур	Max	Units
Passband Center Frequency		4		GHz
Impedance		50		Ohms
Insertion Loss		1	1.5	dB
Passband VSWR		1.2:1	1.3:1	
Rejection at 3.5 GHz	70	80		dB
Rejection at 4.5 GHz	70	80		dB
Input Power, CW			50	Watts
Input Power,			200	Watts
Peak				

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

#### **Mechanical Specifications**

Size
Length
Width
Height
Weight
Body Material and Plating
Finish

Configuration
Number of Sections

Connector 1
Connector 2

2.29 in [58.17 mm] 0.47 in [11.94 mm] 1.14 in [28.96 mm] 0.125 lbs [56.7 g] Aluminum Grey Paint

4

SMA Female SMA Female





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#### **Environmental Specifications**

**Temperature** 

Operating Range -20 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)

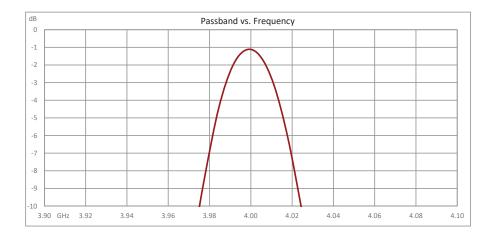
Compliance Certifications (see product page for current document)

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

Notes:

Values at 25°C, sea level.

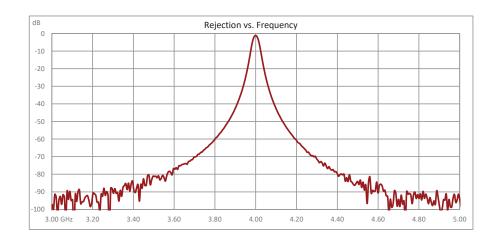
#### **Typical Performance Data**

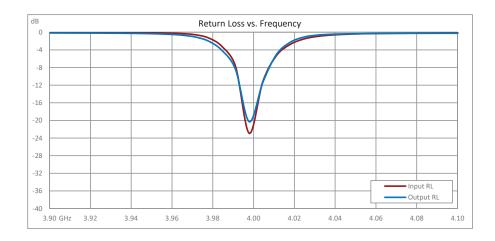






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Bandpass Cavity Filter Operating at 4 GHz with a 25 MHz Passband Bandwidth with SMA Female Connectors from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 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 at 4 GHz with a 25 MHz Passband Bandwidth with SMA Female Connectors FMFL1021

URL: https://www.fairviewmicrowave.com/bandpass-cavity-filter-4-ghz-sma-female-connectors-fmfl1021-p.aspx

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### FMFL1021 CAD Drawing

Bandpass Cavity Filter Operating at 4 GHz with a 25 MHz Passband Bandwidth with SMA Female Connectors

