

Bandpass Cavity Filter Operating from 2.985 GHz to 3.015 GHz with a 40 MHz Passband Bandwidth with SMA Female Connectors



FMFL1025

Features

- Passband Bandwidth of 40 MHz
- High Rejection
- Cavity filter design
- Min rejection 70 dB at 0.4 GHz to 2.8 GHz
- Min rejection 70 dB at 3.2 GHz to 5 GHz
- Maximum insertion loss of 2 dB
- Female SMA connectors

Applications

- Test and Measurement
- Lab Instrumentation
- Antenna Systems

Description

The FMFL1025 is a five section band pass filter that is used for filtering for test and measurement, lab instrumentation, and antenna systems uses. The passband bandwidth is 40 MHz. Implementing a cavity design, the filter has excellent rejection of 70 dB at 2.8 GHz and 3.2 GHz. It has a maximum insertion loss of 2 dB. The FMFL1025 has SMA female connectors.

Electrical Specifications

Description	Min	Typ	Max	Units
Passband Frequency	2.985		3.015	GHz
Impedance		50		Ohms
Insertion Loss		1.5	2	dB
Passband VSWR		1.25:1	1.3:1	
Rejection at 2.8 GHz	70			dB
Rejection at 3.2 GHz	70			dB
Passband Ripple		0.6	0.8	dB
Input Power, CW			30	Watts
Input Power, Peak			200	Watts

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

Mechanical Specifications

Size

Length	4.33 in [109.98 mm]
Width	0.71 in [18.03 mm]
Height	1.02 in [25.91 mm]
Weight	0.4 lbs [181.44 g]
Body Material and Plating	Aluminum
Finish	Grey Paint

Configuration

Number of Sections	5
Connector 1	SMA Female
Connector 2	SMA Female

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Environmental Specifications

Temperature

Operating Range
Storage Range

0 to +40 deg C
-55 to +125 deg C

Environment

Humidity
Shock
Vibration
Altitude

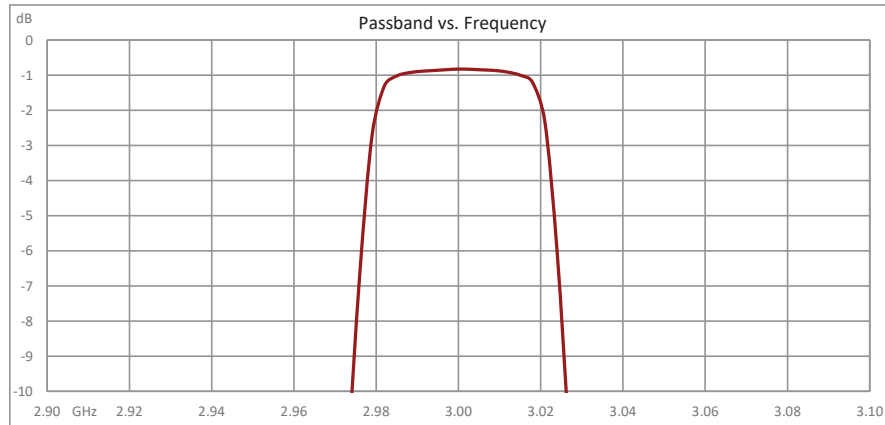
100% RH at 35°C, 95% RH at 40°C
20G for 11msec half sine wave, 3 axis both directions
25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
30,000 ft. (Epoxy Sealed Controlled Environment)

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

Plotted and Other Data

Notes:
Values at 25°C, sea level.

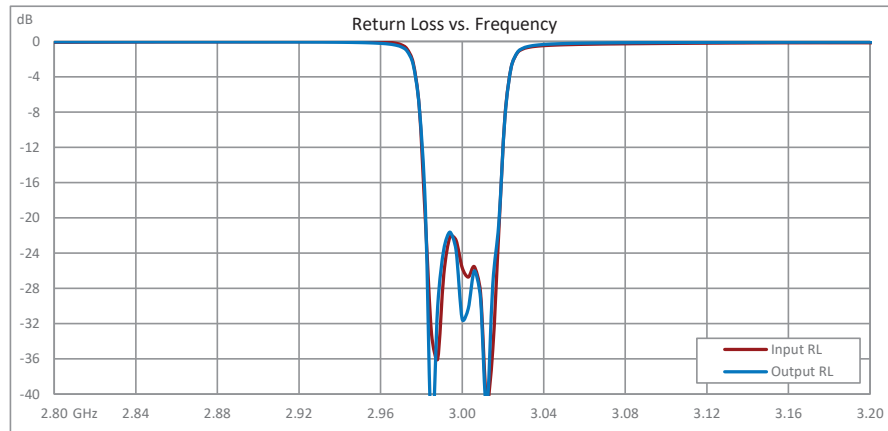
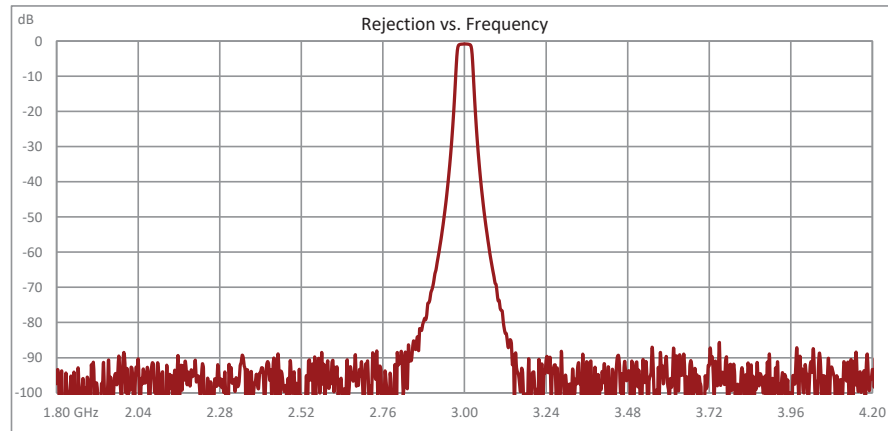
Typical Performance Data



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For additional information on this product, please click the following link: [Bandpass Cavity Filter Operating from 2.985 GHz to 3.015 GHz with a 40 MHz Passband Bandwidth with SMA Female Connectors FMFL1025](https://www.fairviewmicrowave.com/bandpass-cavity-filter-2.985-3.015-ghz-sma-female-connectors-fmfl1025-p.aspx)

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FMFL1025 CAD Drawing

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