Bandpass Cavity Filter Operating from 3.485 GHz to 3.515 GHz with a 45 MHz Passband Bandwidth with SMA Female Connectors

FMFL1026

Features

- Passband Bandwidth of 45 MHz
- High Rejection
- Cavity filter design
- Min rejection 70 dB at 0.4 GHz to 3.3 GHz
- Min rejection 70 dB at 3.7 GHz to 5 GHz
- Maximum insertion loss of 2 dB
- Female SMA connectors

Applications

- Test and Measurement
- Lab Instrumentation
- Antenna Systems

Description

The FMFL1026 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 45 MHz. Implementing a cavity design, the filter has excellent rejection of 70 dB at 3.3 GHz and 3.7 GHz. It has a maximum insertion loss of 2 dB. The FMFL1026 has SMA female connectors.

Electrical Specifications

Description	Min	Typ	Max	Units
Passband Frequency	3.485		3.515	GHz
Impedance		50		Ohms
Insertion Loss		1.5	2	dB
Passband VSWR		1.25:1	1.3:1	
Rejection at 3.3 GHz	70			dB
Rejection at 3.7 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	0 to +40 deg C
Storage Range	-55 to +125 deg C

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Environment

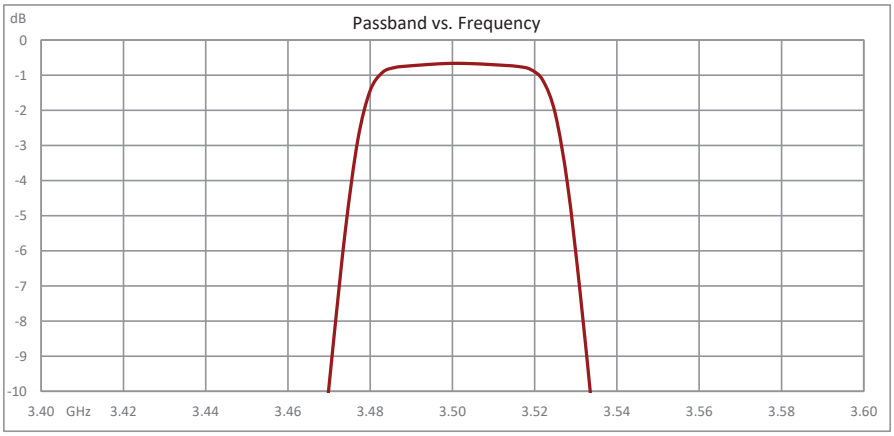
Humidity	100% RH at 35°C, 95% RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Altitude	30,000 ft. (Epoxy Sealed Controlled Environment)

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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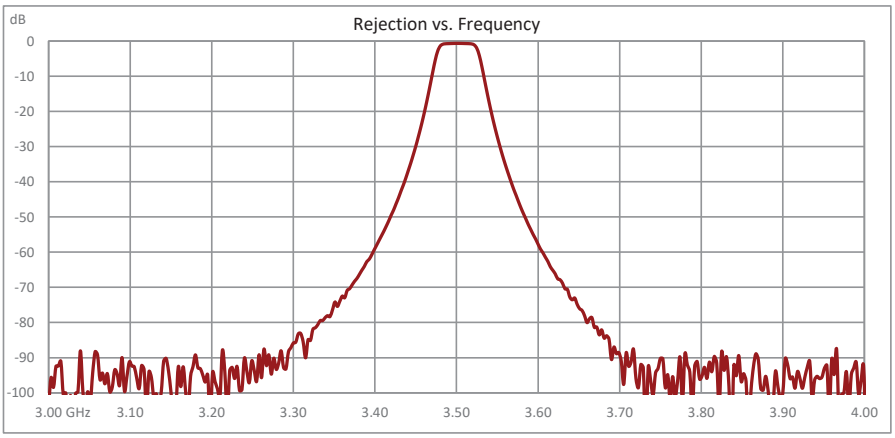

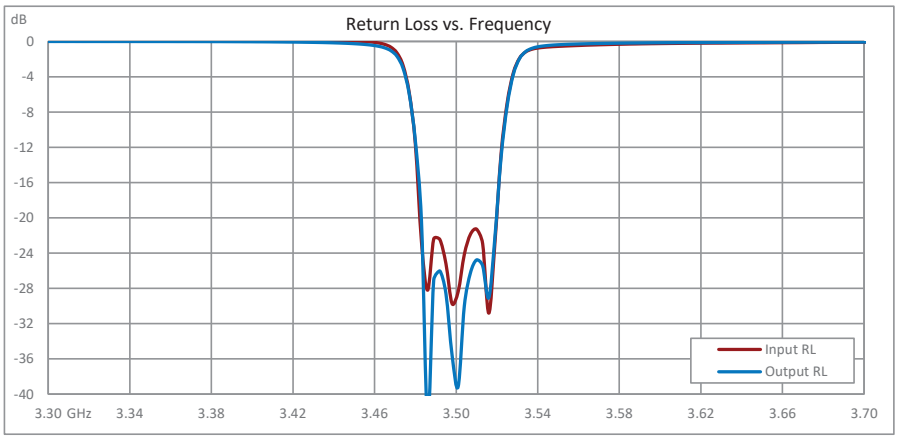

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For additional information on this product, please click the following link: Bandpass Cavity Filter Operating from 3.485 GHz to 3.515 GHz with a 45 MHz Passband Bandwidth with SMA Female Connectors FMFL1026

URL: https://www.fairviewmicrowave.com/bandpass-cavity-filter-3.485-3.515-ghz-sma-female-connectors-fmfl1026-p.aspx

FMFL1026 CAD Drawing

Bandpass Cavity Filter Operating from 3.485 GHz to 3.515 GHz with a 45 MHz Passband Bandwidth with SMA Female Connectors