

Bandpass Filter withs Operating from 4.2 GHz to 5.7 GHz with a 2.2 GHz Passband Bandwidth with SMA Female Connectors

FMFL1031

Features

- · Passband Bandwidth of 2.2 GHz
- · High Rejection
- · Cavity filter design
- Min rejection 45 dB at DC to 3.4 GHz

Applications

- · Test and Measurement
- Lab Instrumentation

- Min rejection 45 dB at 6.9 GHz to 9.5 GHz
- · Maximum insertion loss of 1 dB
- · Female SMA connectors

Antenna Systems

Description

The FMFL1031 is a ten section band pass filter that is used for filtering for test and measurement, lab instrumentation, and antenna systems uses. The passband bandwidth is 2.2 GHz. Implementing a cavity design, the filter has excellent rejection of 45 dB at 3.4 GHz and 6.9 GHz. It has a maximum insertion loss of 1 dB. The FMFL1031 has SMA female connectors.

Electrical Specifications

| Description | Min | Тур | Max | Units |
|--|-----|-------|-------|-------|
| Passband Frequency | 4.2 | | 5.7 | GHz |
| Impedance | | 50 | | Ohms |
| Insertion Loss | | 0.85 | 1 | dB |
| Passband VSWR | | 1.5:1 | 1.8:1 | |
| Rejection at 3.4 GHz | 45 | 52 | | dB |
| Rejection at 6.9 GHz | 45 | 60 | | dB |
| Passband Ripple | | 0.5 | 0.8 | dB |
| Input Power, CW | | | 15 | Watts |
| Input Power, at 10% Duty Cycle 1µs Pulse | | | 100 | Watts |
| Peak Width | | | | |

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

Mechanical Specifications

Size

 Length
 2.87 in [72.9 mm]

 Width
 0.47 in [11.94 mm]

 Height
 1.26 in [32 mm]

 Weight
 0.194 lbs [88 g]

 Body Material and Plating
 Aluminum

 Finish
 Grey Paint

Configuration

Number of Sections 10

Connector 1 SMA Female
Connector 2 SMA Female



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Environmental Specifications

Temperature

Operating Range -55 to +85 deg C Storage Range -55 to +125 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)

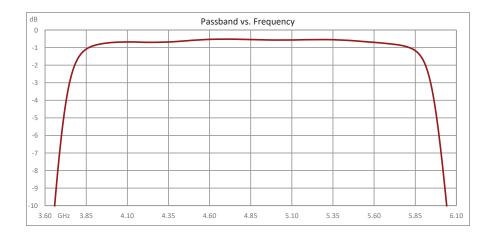
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

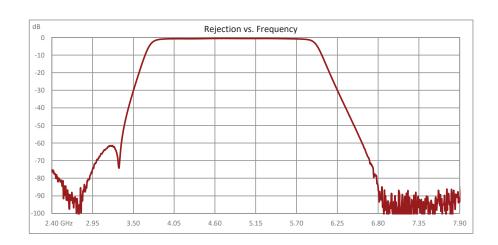
Typical Performance Data

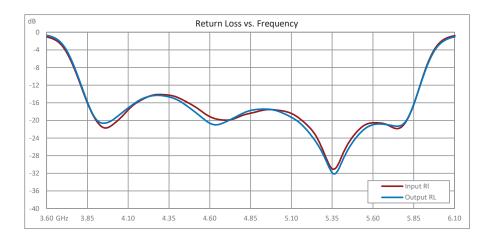




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For additional information on this product, please click the following link: Bandpass Filter withs Operating from 4.2 GHz to 5.7 GHz with a 2.2 GHz Passband Bandwidth with SMA Female Connectors FMFL1031

URL: https://www.fairviewmicrowave.com/bandpass-cavity-filter-4.2-5.7-ghz-sma-female-connectors-fmfl1031-p.aspx

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FMFL1031 CAD Drawing

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