

## Bandpass Cavity Filter Operating from 1.88 GHz to 1.92 GHz with a 55 MHz Passband Bandwidth with SMA Female Connectors



### FMFL1027

#### Features

- Passband Bandwidth of 55 MHz
- High Rejection
- Cavity filter design
- Min rejection 60 dB at 1.83 GHz
- Min rejection 60 dB at 1.97 GHz
- Maximum insertion loss of 1 dB
- Female SMA connectors

#### Applications

- Test and Measurement
- Lab Instrumentation
- Antenna Systems

#### Description

The FMFL1027 is a six section band pass filter that is used for filtering for test and measurement, lab instrumentation, and antenna systems uses. The passband bandwidth is 55 MHz. Implementing a cavity design, the filter has excellent rejection of 60 dB at 1.83 GHz and 1.97 GHz. It has a maximum insertion loss of 1 dB. The FMFL1027 has SMA female connectors.

#### Electrical Specifications

| Description           | Min  | Typ    | Max   | Units |
|-----------------------|------|--------|-------|-------|
| Passband Frequency    | 1.88 |        | 1.92  | GHz   |
| Impedance             |      | 50     |       | Ohms  |
| Insertion Loss        |      | 0.8    | 1     | dB    |
| Passband VSWR         |      | 1.25:1 | 1.3:1 |       |
| Rejection at 1.83 GHz | 60   |        |       | dB    |
| Rejection at 1.97 GHz | 60   |        |       | dB    |
| Passband Ripple       |      | 0.4    | 0.5   | dB    |
| Input Power, CW       |      |        | 50    | Watts |
| Input Power, Peak     |      |        | 200   | Watts |

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

#### Mechanical Specifications

##### Size

|                           |                    |
|---------------------------|--------------------|
| Length                    | 3.47 in [88.14 mm] |
| Width                     | 1.02 in [25.91 mm] |
| Height                    | 2.36 in [59.94 mm] |
| Weight                    | 0.5 lbs [226.8 g]  |
| Body Material and Plating | Aluminum           |
| Finish                    | Grey Paint         |

##### Configuration

|                    |            |
|--------------------|------------|
| Number of Sections | 6          |
| Connector 1        | SMA Female |
| Connector 2        | SMA Female |

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### Environmental Specifications

#### Temperature

Operating Range  
Storage Range

-25 to +70 deg C  
-45 to +85 deg C

#### Environment

Humidity  
Shock  
Vibration  
Altitude

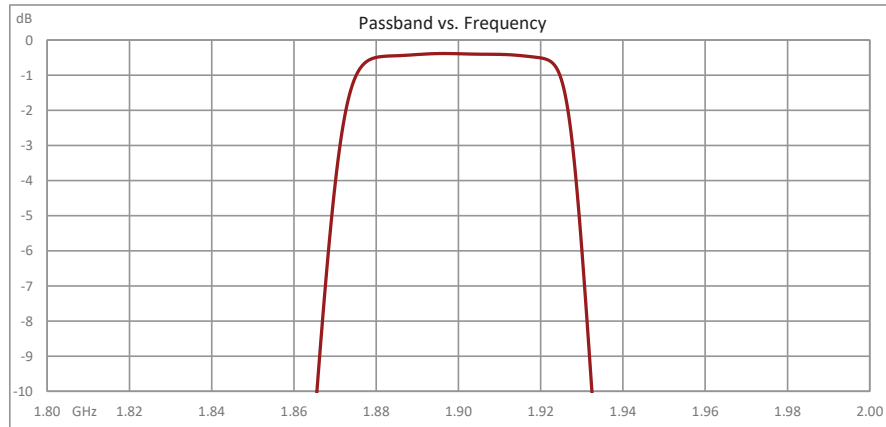
100% RH at 35°C, 95% RH at 40°C  
20G for 11msec half sine wave, 3 axis both directions  
25g RMS (15 degrees 2KHz) endurance, 1 hour per axis  
30,000 ft. (Epoxy Sealed Controlled Environment)

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

### Plotted and Other Data

Notes:  
Values at 25°C, sea level.

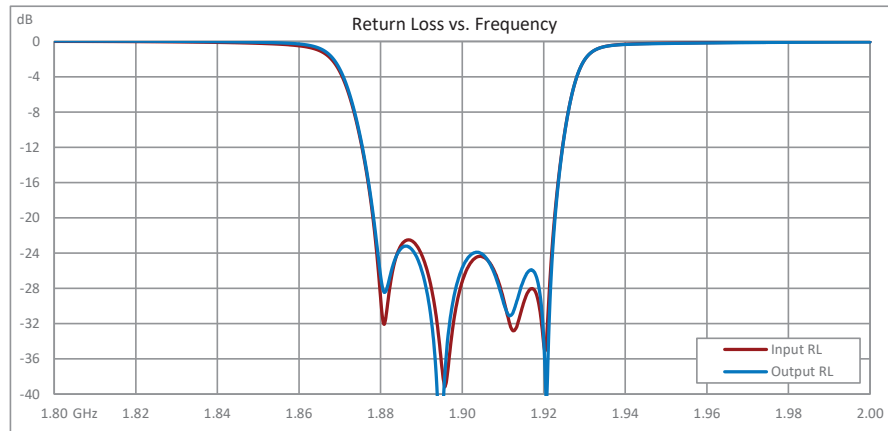
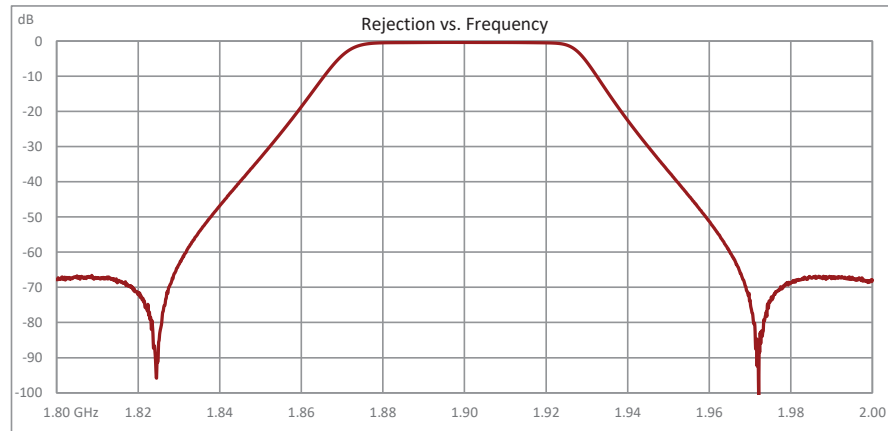
### Typical Performance Data



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For additional information on this product, please click the following link: [Bandpass Cavity Filter Operating from 1.88 GHz to 1.92 GHz with a 55 MHz Passband Bandwidth with SMA Female Connectors FMFL1027](https://www.fairviewmicrowave.com/bandpass-cavity-filter-1.88-1.92-ghz-sma-female-connectors-fmfl1027-p.aspx)

URL: <https://www.fairviewmicrowave.com/bandpass-cavity-filter-1.88-1.92-ghz-sma-female-connectors-fmfl1027-p.aspx>

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FMFL1027 CAD Drawing

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