

Bandpass Cavity Filter Operating From 1.71 GHz to 1.77 GHz With SMA Female Connectors

The FMFL010 is a four section band pass filter that is useful for filtering for UMTS/ AWS uses. The pass band is 60 MHz, or 1.71 to 1.77 GHz. Implementing a combline design, the filter has excellent minimum rejection of 50 dB at 1.49 GHz and 1.99 GHz, or about 220 MHz from the band edges. It has a maximum insertion loss of 1.5 dB. The FMFL010 has SMA Female connectors.

Electrical Specifications

| Description | Min | Typ | Max | Units |
|-----------------------|------|-------|------|-------|
| Passband Frequency | 1.71 | | 1.77 | GHz |
| Impedance | | 50 | | Ohms |
| Insertion Loss | | | 1.5 | dB |
| Passband VSWR | | 1.5:1 | | |
| Rejection at 1.49 GHz | 50 | | | dB |
| Rejection at 1.99 GHz | 50 | | | dB |
| Input Power, CW | | | 5 | Watts |

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

Mechanical Specifications

| Size | |
|--------------------|----------------------|
| Length | 1.8 in [45.72 mm] |
| Width | 1.4 in [35.56 mm] |
| Height | 0.53 in [13.46 mm] |
| Weight | 0.121 lbs [54.88 g] |
| Configuration | |
| Design | Compline |
| Number of Sections | 4 |
| Package Style | Connectorized Module |
| Connector 1 | SMA Female |
| Connector 2 | SMA Female |

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

Plotted and Other Data

Notes:



Features:

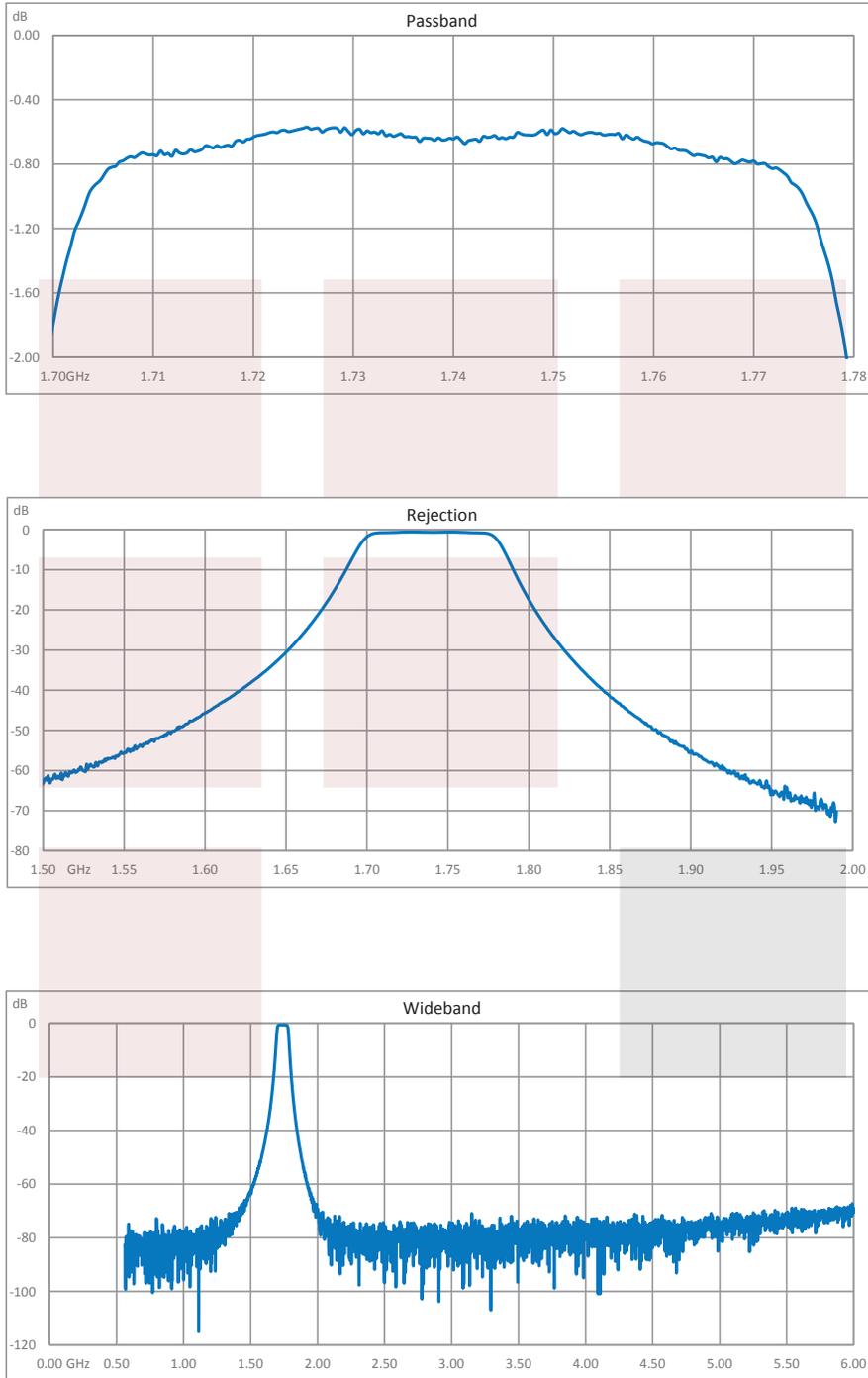
- Pass band of 60 MHz
- 1.71 to 1.77 GHz
- Four section
- Compline filter design
- Minimum 50 dB rejection at 1.49 GHz and 1.99 GHz (about 220 MHz from band edge)
- Maximum insertion loss of 1.5 dB
- Female SMA connectors

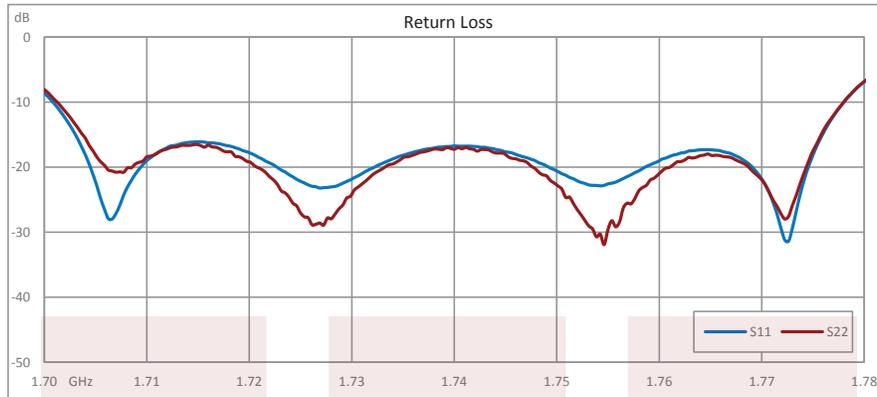
Applications:

- UMTS/AWS

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Typical Performance Data



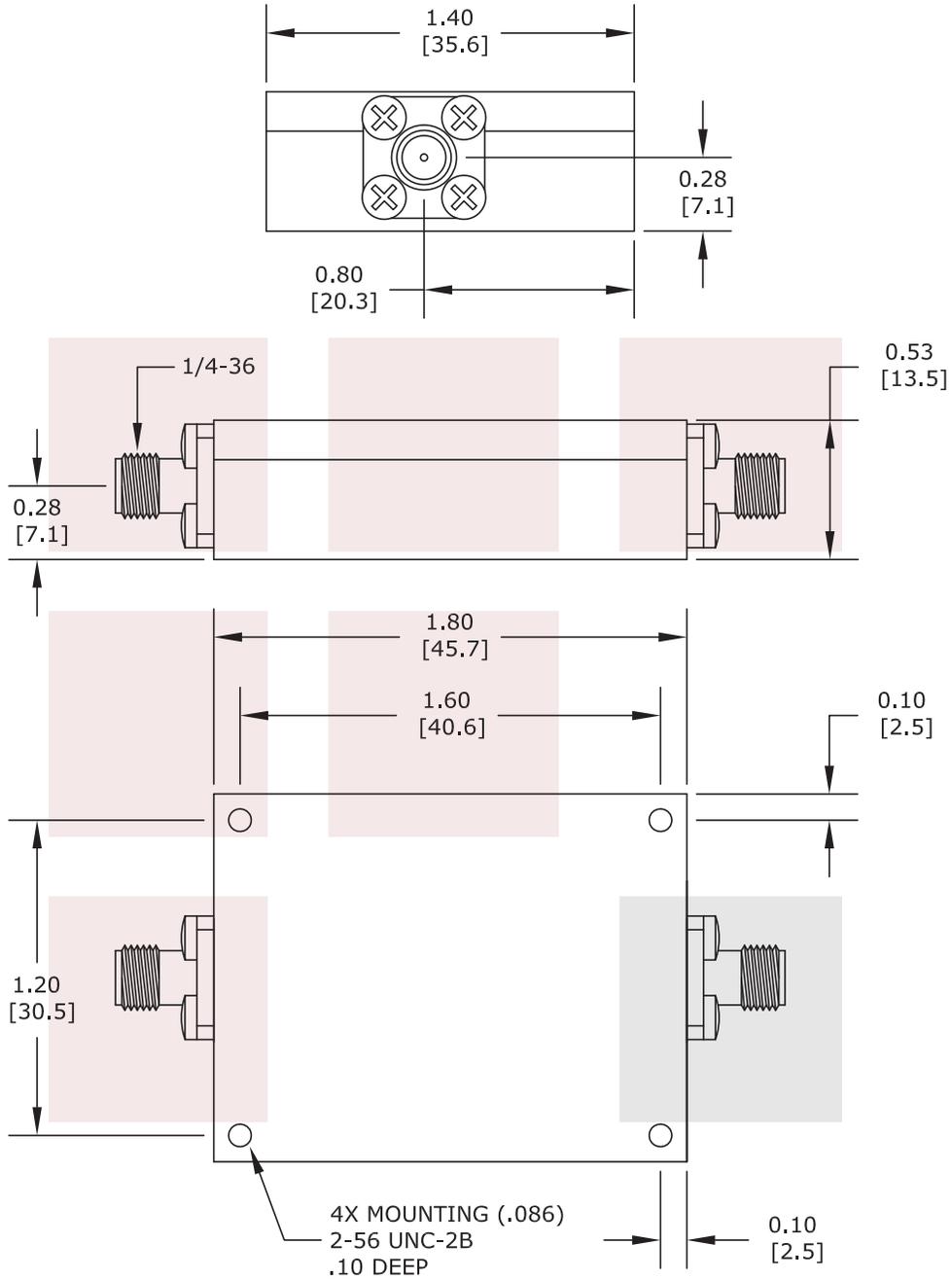


Bandpass Cavity Filter Operating From 1.71 GHz to 1.77 GHz With SMA Female Connectors from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Bandpass Cavity Filter Operating From 1.71 GHz to 1.77 GHz With SMA Female Connectors FMFL010](#)

URL: <https://www.fairviewmicrowave.com/bandpass-cavity-filter-1.71-1.77-ghz-sma-female-connectors-fmfl010-p.aspx>

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|---|----------|---|-------|------|------|
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| ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM | | 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. | | | |
| | | 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. | | | |
| | | 3. DIMENSIONS ARE IN INCHES [mm]. | | | |
| TITLE | DWG NO | CAGE CODE | | | |
| Bandpass Cavity Filter Operating From 1.71 GHz to 1.77 GHz With SMA Female Connectors | FMFL010 | 3FKR5 | | | |
| | CAD FILE | SHEET | SCALE | SIZE | |
| | 042617 | | N/A | A | 2233 |