

Bandpass Cavity Filter Operating From 17.3 GHz to 18.1 GHz With SMA Female Connectors

The FMFL1006 is an eight section band pass filter. It is part of a family of filters that is useful for satellite communications. The pass band is 800 MHz wide, from 17.3 GHz to 18.1 GHz. Implemented using a Comblaine design, the filter has excellent rejection of 50 dB at 16.2 GHz and 19.2 GHz, or ± 1.5 GHz from mid band. It has a maximum insertion loss of 1.5 dB. The FMFL1006 has SMA female connectors.

Electrical Specifications

| Description | Min | Typ | Max | Units |
|-----------------------|------|-------|------|-------|
| Passband Frequency | 17.3 | | 18.1 | GHz |
| Impedance | | 50 | | Ohms |
| Insertion Loss | | | 1.5 | dB |
| Passband VSWR | | 1.4:1 | | |
| Rejection at 16.2 GHz | 50 | | | dB |
| Rejection at 19.2 GHz | 50 | | | dB |
| Input Power, CW | | | 2 | Watts |

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

Mechanical Specifications

| | |
|-------------|--------------------|
| Size | |
| Length | 1.86 in [47.24 mm] |
| Width | 0.5 in [12.7 mm] |
| Height | 0.4 in [10.16 mm] |

Configuration

| | |
|--------------------|-------------------|
| Design | Comblaine |
| Number of Sections | 8 |
| Package Style | Connectorized |
| Connector 1 | SMA Female |
| Connector 2 | SMA Female |
| Connector Option | Field Replaceable |

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

| | |
|-----------------|------------|
| RoHS Compliant | Yes |
| REACH Compliant | 06/14/2014 |

Plotted and Other Data

Notes:
• Values at 25°C, sea level.



Features:

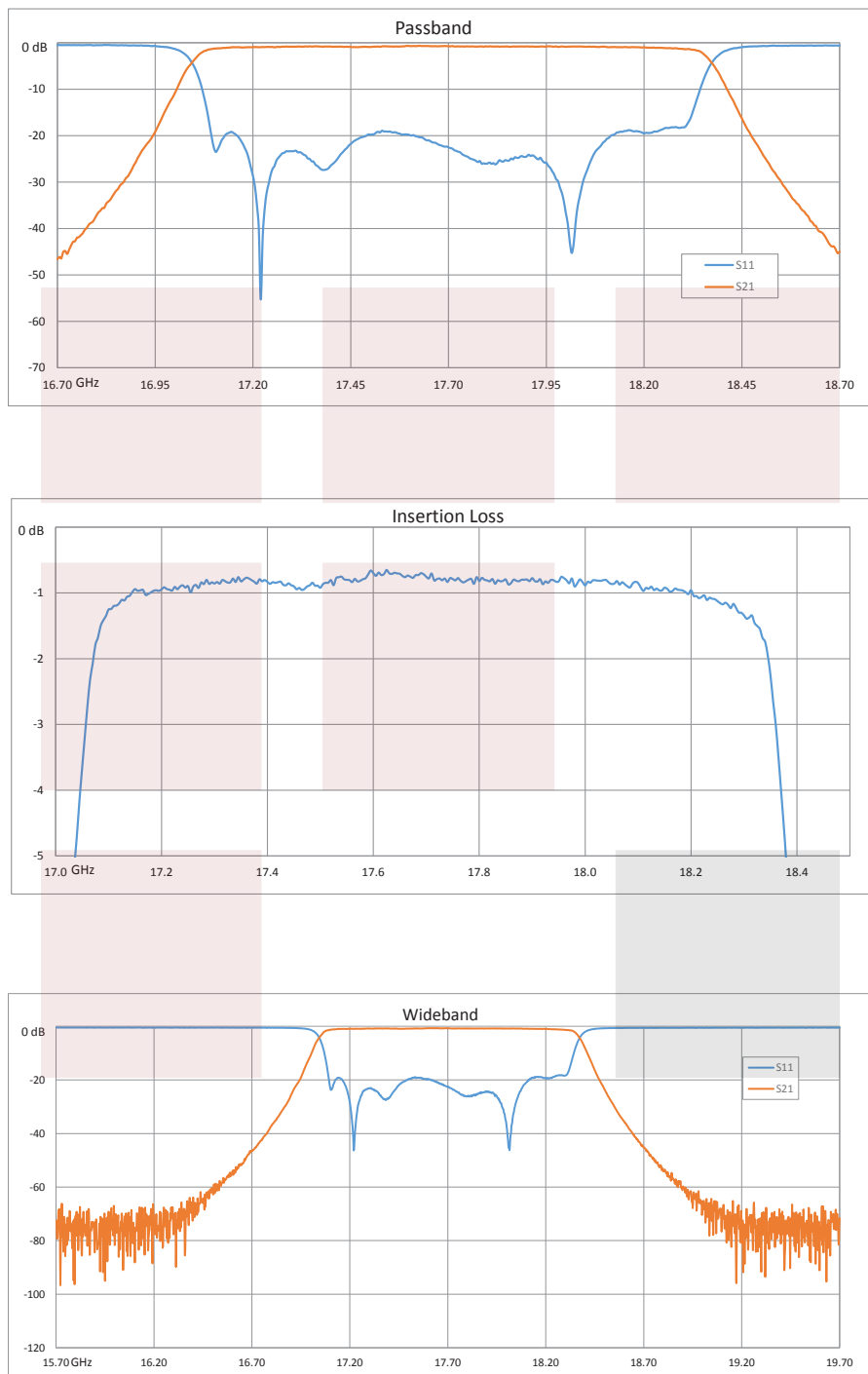
Pass band of 800 MHz
17.3 GHz to 18.1 GHz
Eight section
Comblaine filter design
50 dB rejection at 16.2 GHz and 19.2 GHz (1.5 GHz from band center)
Typical insertion loss of 1.5 dB
Female SMA connectors

Applications:

Satellite communications

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Typical Performance Data



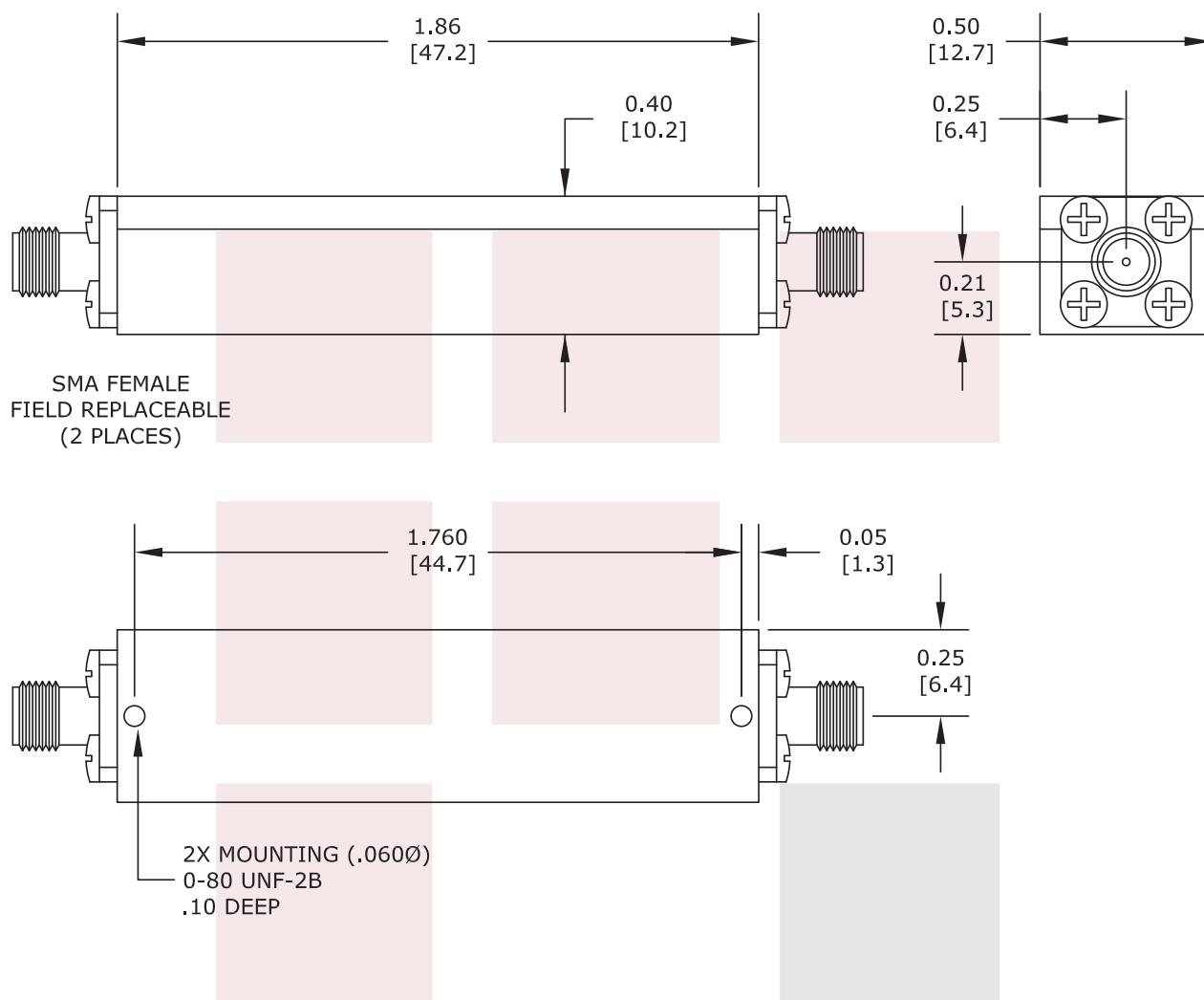
Bandpass Cavity Filter Operating From 17.3 GHz to 18.1 GHz With SMA Female Connectors from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Bandpass Cavity Filter Operating From 17.3 GHz to 18.1 GHz With SMA Female Connectors FMFL1006](#)

URL: <http://www.fairviewmicrowave.com/bandpass-cavity-filter-17.3-18.1-ghz-sma-female-connectors-fmfl1006-p.aspx>

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TOLERANCE

.X ± .1
.XX ± .01
.XXX ± .005
.XXXX ± .0010

* THESE DIMENSIONS AND TOLERANCES
SUPERSEDE NOTE #1 ON TITLE BLOCK.

| | | | | | |
|---|--------------|---|---------------|---------------------------|--|
| FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM | | NOTES: 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 Bandpass Cavity Filter Operating From 17.3 GHz to 18.1 GHz With SMA Female Connectors | | DWG NO FMFL1006 | | CAGE CODE 3FKR5 | |
| CAD FILE 120415 | SHEET | SCALE N/A | SIZE A | 2233 | |