

Bandpass Cavity Filter Operating From 17.2 GHz to 18.2 GHz With SMA Female Connectors

The FMFL1008 is an six section band pass filter. It is part of a family of filters that is useful for satellite communications. The pass band is 1000 MHz wide, from 17.2 GHz to 18.2 GHz. Implemented using a Comblin design, the filter has excellent rejection of 35 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 FMFL1008 has SMA female connectors.

Electrical Specifications

Description	Min	Typ	Max	Units
Passband Frequency	17.2		18.2	GHz
Impedance		50		Ohms
Insertion Loss			1.5	dB
Passband VSWR		1.4:1		
Rejection at 16.2 GHz	35			dB
Rejection at 19.2 GHz	35			dB
Input Power, CW			2	Watts

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

Mechanical Specifications

Size	
Length	1.55 in [39.37 mm]
Width	0.45 in [11.43 mm]
Height	0.4 in [10.16 mm]

Configuration

Design	Comblin
Number of Sections	6
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:

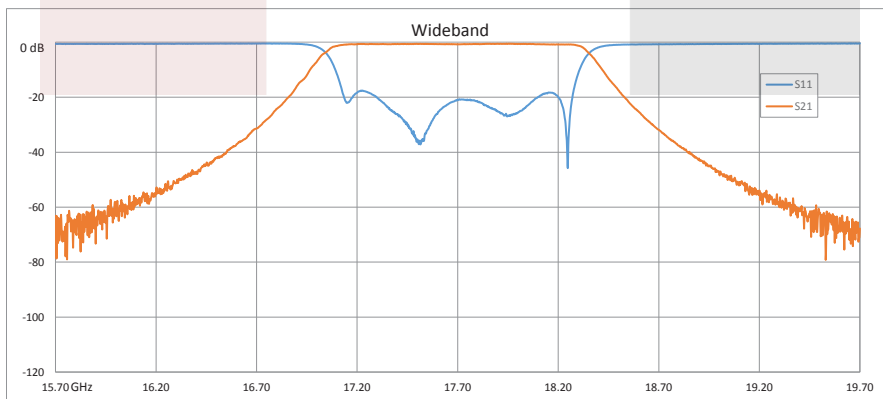
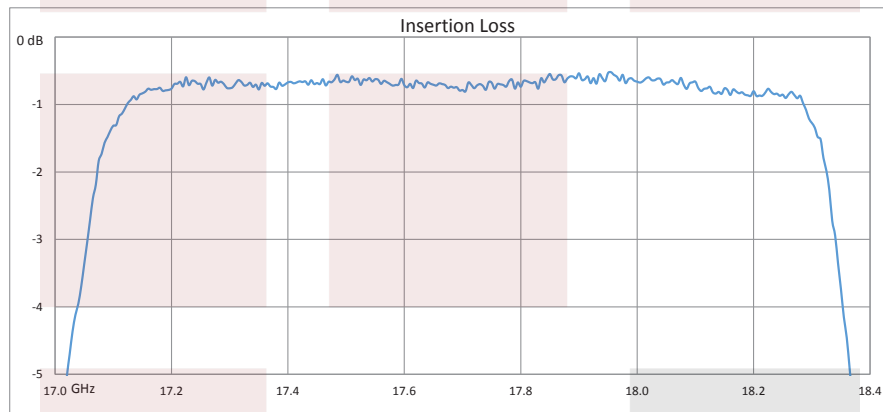
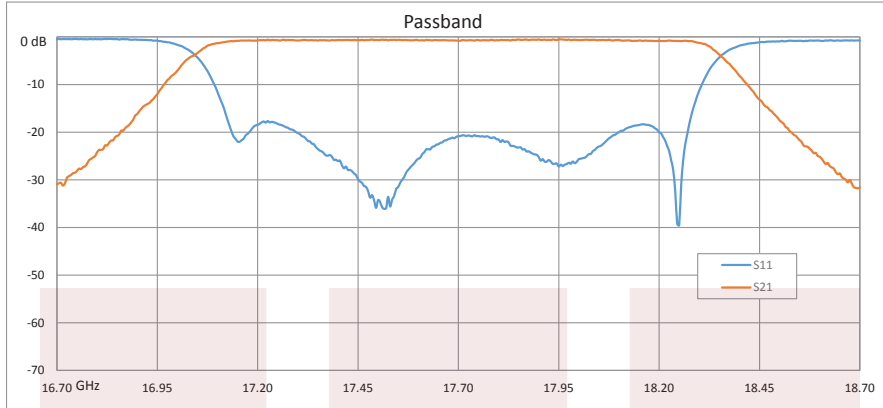
Pass band of 1000 MHz
17.2 GHz to 18.2 GHz
Six section
Comblin filter design
35 dB rejection at 16.2 GHz and 19.2 GHz (1.5 GHz from band center)
Typical insertion loss of 1.5 dB
Female SMA connectors

Applications:

Satellite communications

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Typical Performance Data



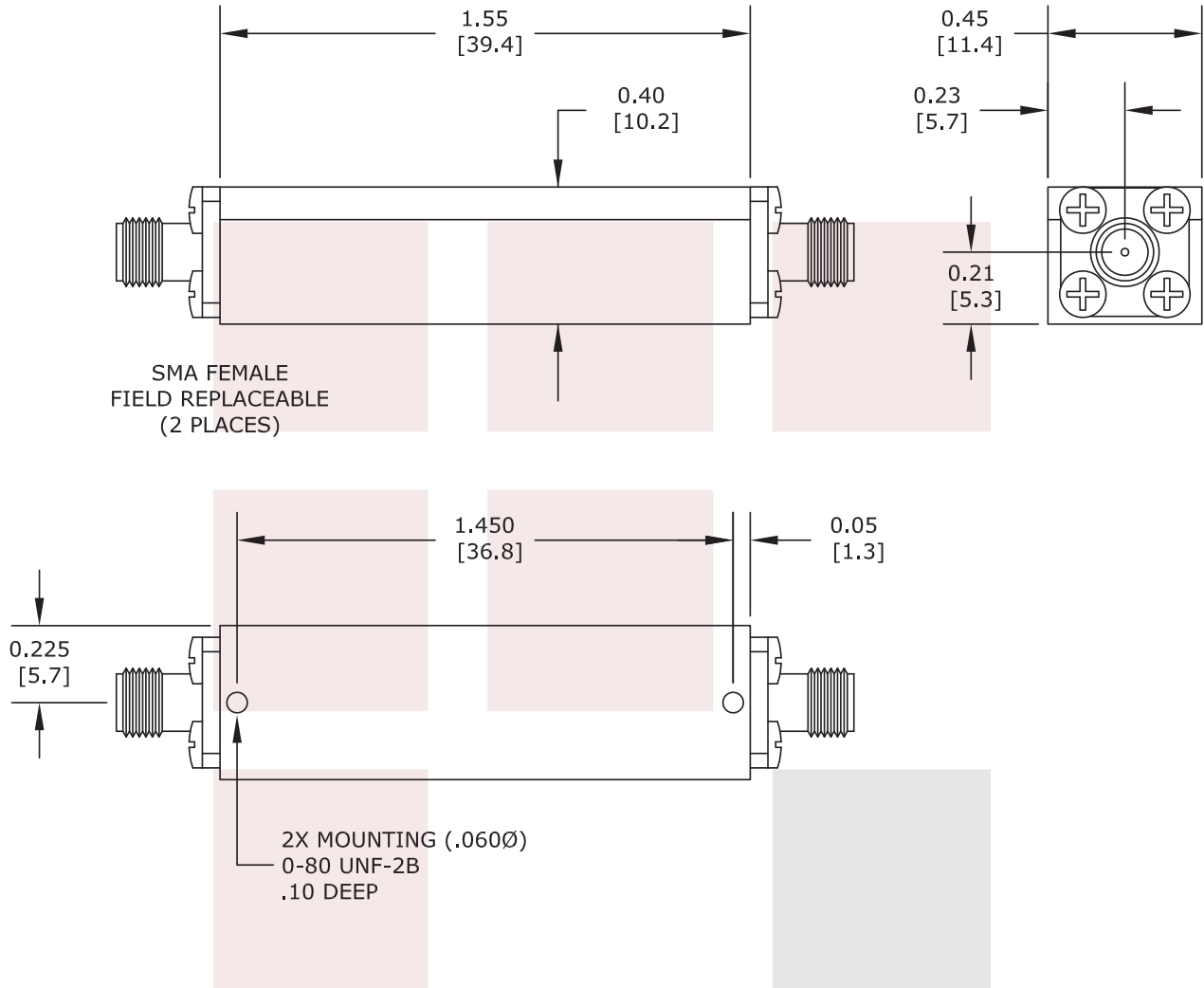
Bandpass Cavity Filter Operating From 17.2 GHz to 18.2 GHz With SMA Female Connectors from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Bandpass Cavity Filter Operating From 17.2 GHz to 18.2 GHz With SMA Female Connectors FMFL1008](#)

URL: <http://www.fairviewmicrowave.com/bandpass-cavity-filter-17.2-18.2-ghz-sma-female-connectors-fmfl1008-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 17.2 GHz to 18.2 GHz With SMA Female Connectors		DWG NO FMFL1008		CAGE CODE 3FKR5	
CAD FILE	120415	SHEET	SCALE	N/A	SIZE A 2233