

Bandpass Cavity Filter Operating From 11.7 GHz to 12.8 GHz With SMA Female Connectors

The FMFL1002 is an seven section band pass filter. It is part of a family of filters that is useful for satellite communications. The pass band is 1100 MHz wide, from 11.7 GHz to 12.8 GHz. Implemented using a Comblaine design, the filter has excellent rejection of 50 dB at 9.75 GHz and 14.75 GHz, or ± 2.5 GHz from mid band. It has a maximum insertion loss of 1.25 dB. The FMFL1002 has SMA female connectors.

Electrical Specifications

Description	Min	Typ	Max	Units
Passband Frequency	11.7		12.8	GHz
Impedance		50		Ohms
Insertion Loss			1.25	dB
Passband VSWR		1.4:1		
Rejection at 9.75 GHz	50			dB
Rejection at 14.75 GHz	50			dB
Input Power, CW			2	Watts

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

Mechanical Specifications

Size	
Length	2.49 in [63.25 mm]
Width	0.5 in [12.7 mm]
Height	0.47 in [11.94 mm]

Configuration

Design	Comblaine
Number of Sections	7
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:

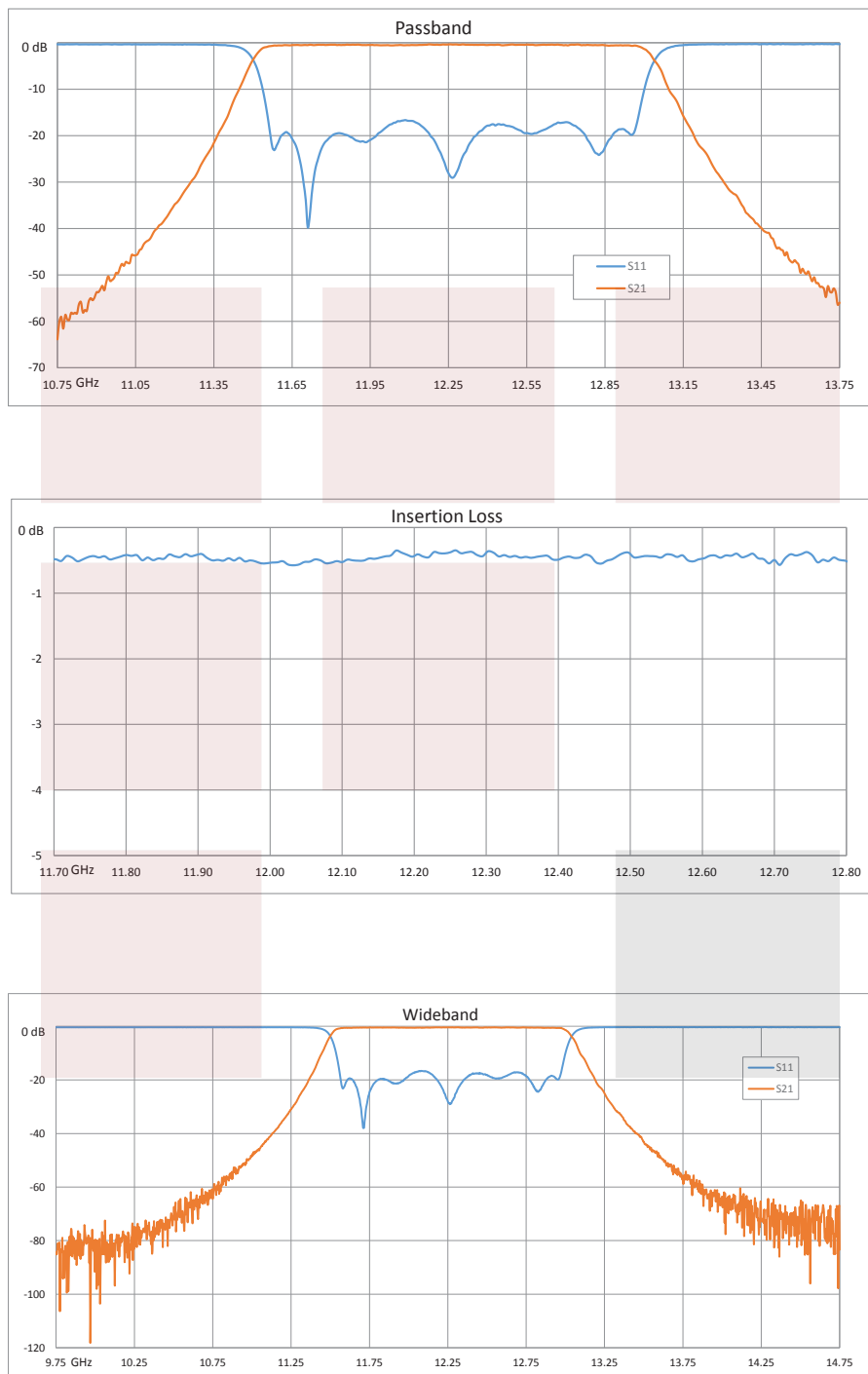
Pass band of 1100 MHz
11.7 GHz to 12.8 GHz
Seven section
Comblaine filter design
50 dB rejection at 9.75
GHz and 14.750 GHz (2.5
GHz from band center)
Typical insertion loss of 1.25 dB
Female SMA connectors

Applications:

Satellite communications

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Typical Performance Data



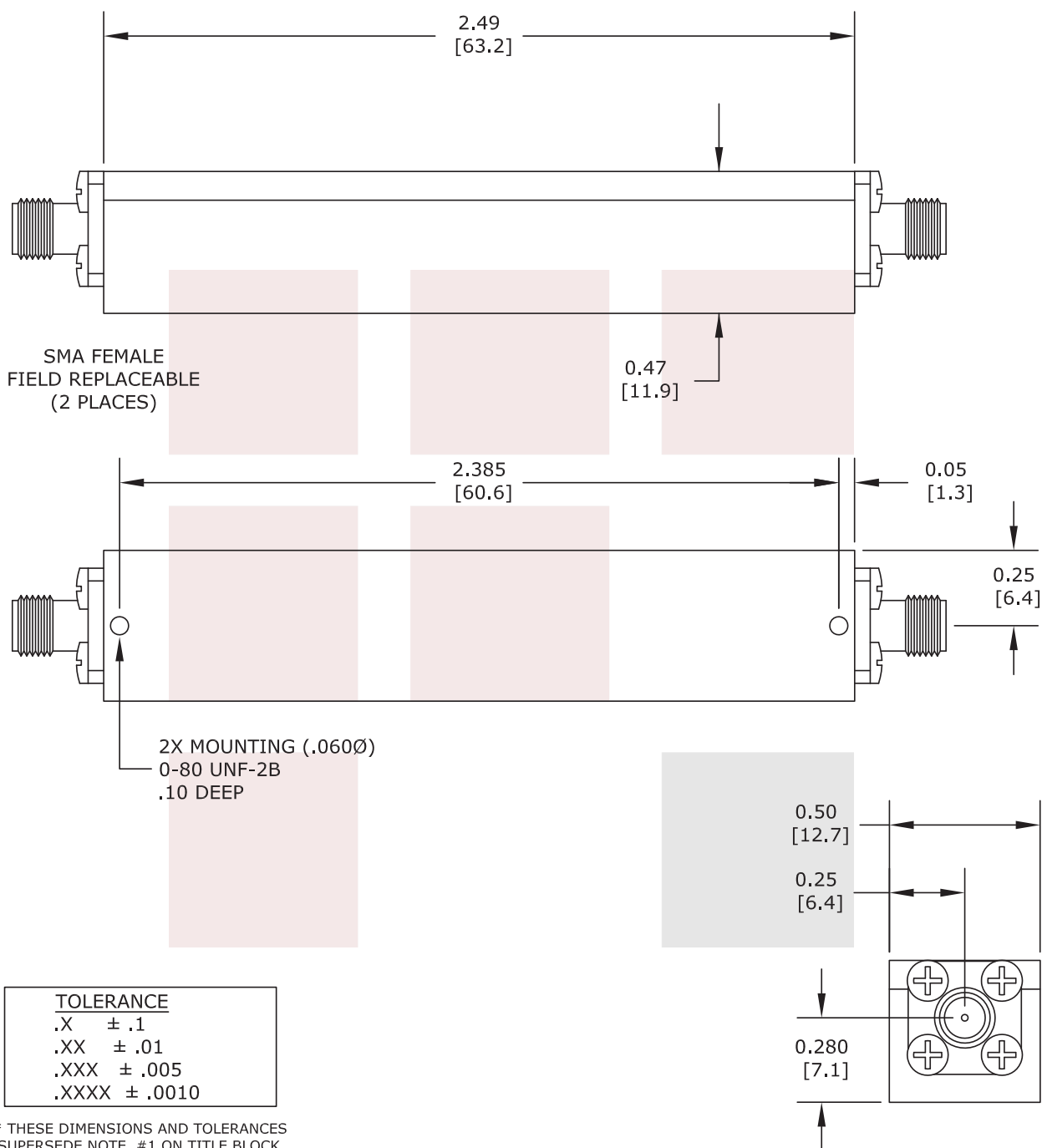
Bandpass Cavity Filter Operating From 11.7 GHz to 12.8 GHz With SMA Female Connectors from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Bandpass Cavity Filter Operating From 11.7 GHz to 12.8 GHz With SMA Female Connectors FMFL1002](#)

URL: <http://www.fairviewmicrowave.com/bandpass-cavity-filter-11.7-12.8-ghz-sma-female-connectors-fmfl1002-p.aspx>

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TITLE

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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].

DWG NO

FMFL1002

CAGE CODE

3FKR5

CAD FILE

120415

SHEET

SCALE

N/A

SIZE

A 2233