

Bandpass Cavity Filter Operating From 10.55 GHz to 11.8 GHz With SMA Female Connectors

The FMFL1001 is an eleven section band pass filter. It is part of a family of filters that is useful for satellite communications. The pass band is 1250 MHz wide, from 10.55 GHz to 11.8 GHz. Implemented using a Comblaine design, the filter has excellent rejection of 50 dB at 8.45 GHz and 13.925 GHz, or ± 2.75 GHz from mid band. It has a maximum insertion loss of 1.25 dB. The FMFL1001 has SMA female connectors.

Electrical Specifications

Description	Min	Typ	Max	Units
Passband Frequency	10.55		11.8	GHz
Impedance		50		Ohms
Insertion Loss			1.25	dB
Passband VSWR		1.4:1		
Rejection at 8.425 GHz	50			dB
Rejection at 13.925 GHz	50			dB
Input Power, CW			2	Watts

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

Mechanical Specifications

Size	
Length	2.69 in [68.33 mm]
Width	0.5 in [12.7 mm]
Height	0.47 in [11.94 mm]

Configuration

Design	Comblaine
Number of Sections	11
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:

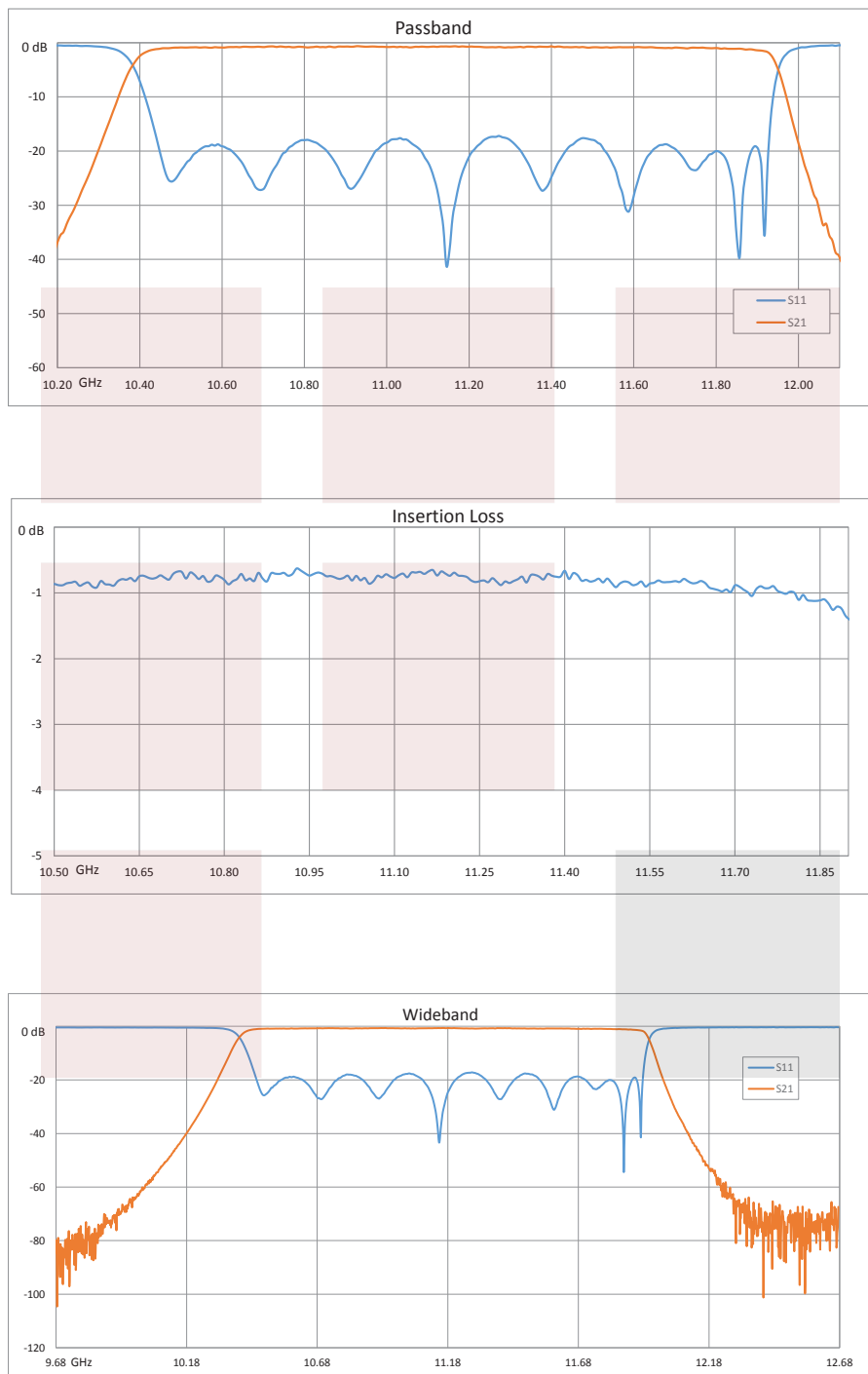
Pass band of 1250 MHz
10.55 GHz to 11.8 GHz
Eleven section
Comblaine filter design
50 dB rejection at 8.45
GHz and 13.925 GHz (2.75
GHz from band center)
Typical insertion loss of 1.25 dB
Female SMA connectors

Applications:

Satellite communications

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Typical Performance Data



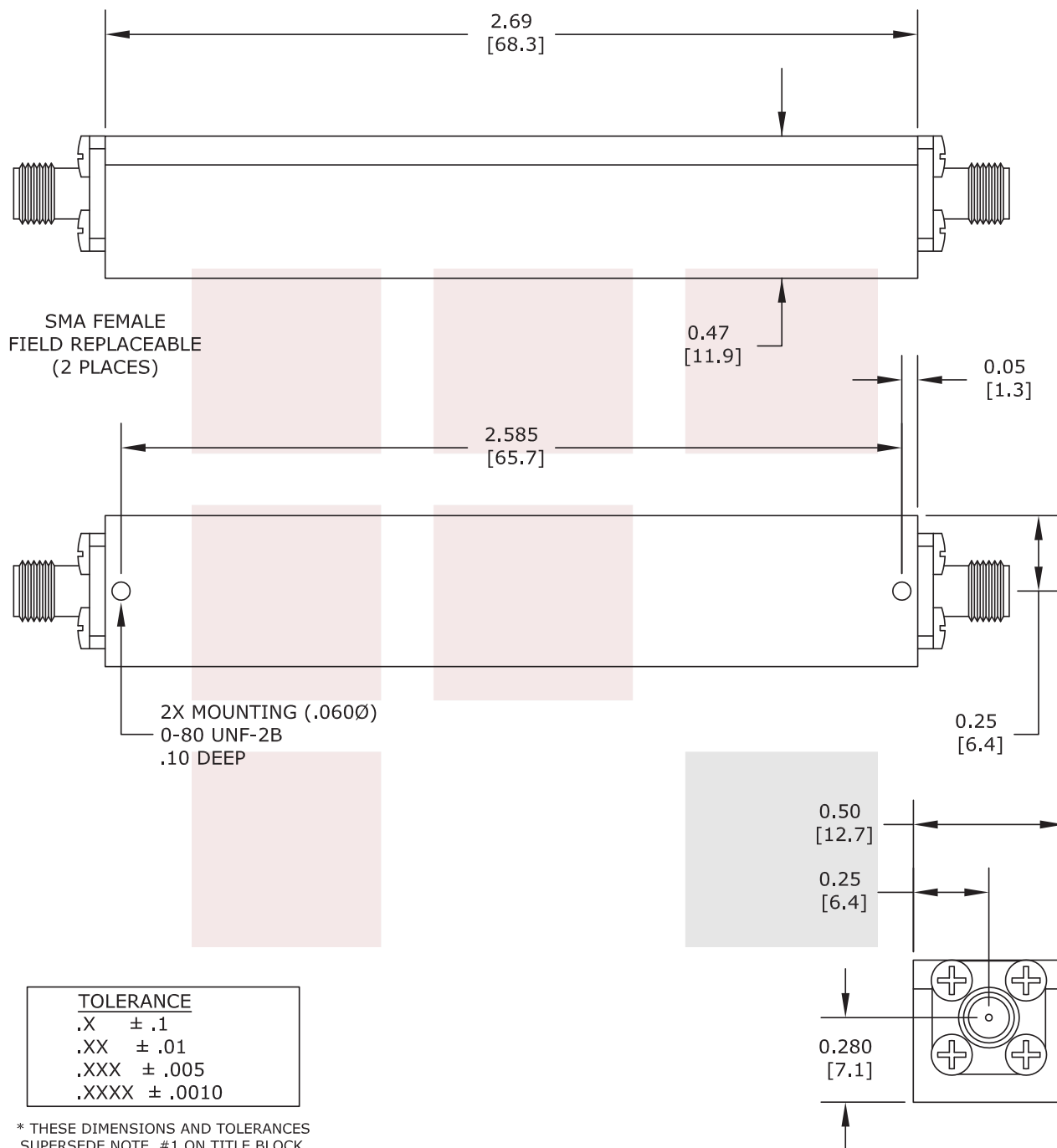
Bandpass Cavity Filter Operating From 10.55 GHz to 11.8 GHz With SMA Female Connectors from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Bandpass Cavity Filter Operating From 10.55 GHz to 11.8 GHz With SMA Female Connectors FMFL1001](#)

URL: <http://www.fairviewmicrowave.com/bandpass-cavity-filter-10.55-11.8-ghz-sma-female-connectors-fmfl1001-p.aspx>

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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].

TITLE

Bandpass Cavity Filter Operating From 10.55 GHz to
11.8 GHz With SMA Female Connectors

DWG NO

FMFL1001

CAGE CODE

3FKR5

CAD FILE

120415

SHEET

SCALE

N/A

SIZE

A 2233