

Bandpass Cavity Filter Operating From 12.2 GHz to 12.7 GHz With SMA Female Connectors

The FMFL1004 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 500 MHz wide, from 12.2 GHz to 12.7 GHz. Implemented using a Comblin design, the filter has excellent rejection of 50 dB at 11.45 GHz and 13.45 GHz, or ±1 GHz from mid band. It has a maximum insertion loss of 1.5 dB. The FMFL1004 has SMA female connectors.

Electrical Specifications

Description	Min	Typ	Max	Units
Passband Frequency	12.2		12.7	GHz
Impedance		50		Ohms
Insertion Loss			1.5	dB
Passband VSWR		1.4:1		
Rejection at 11.45 GHz	50			dB
Rejection at 13.45 GHz	50			dB
Input Power, CW			2	Watts

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

Mechanical Specifications

Size	
Length	1.93 in [49.02 mm]
Width	0.5 in [12.7 mm]
Height	0.47 in [11.94 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:

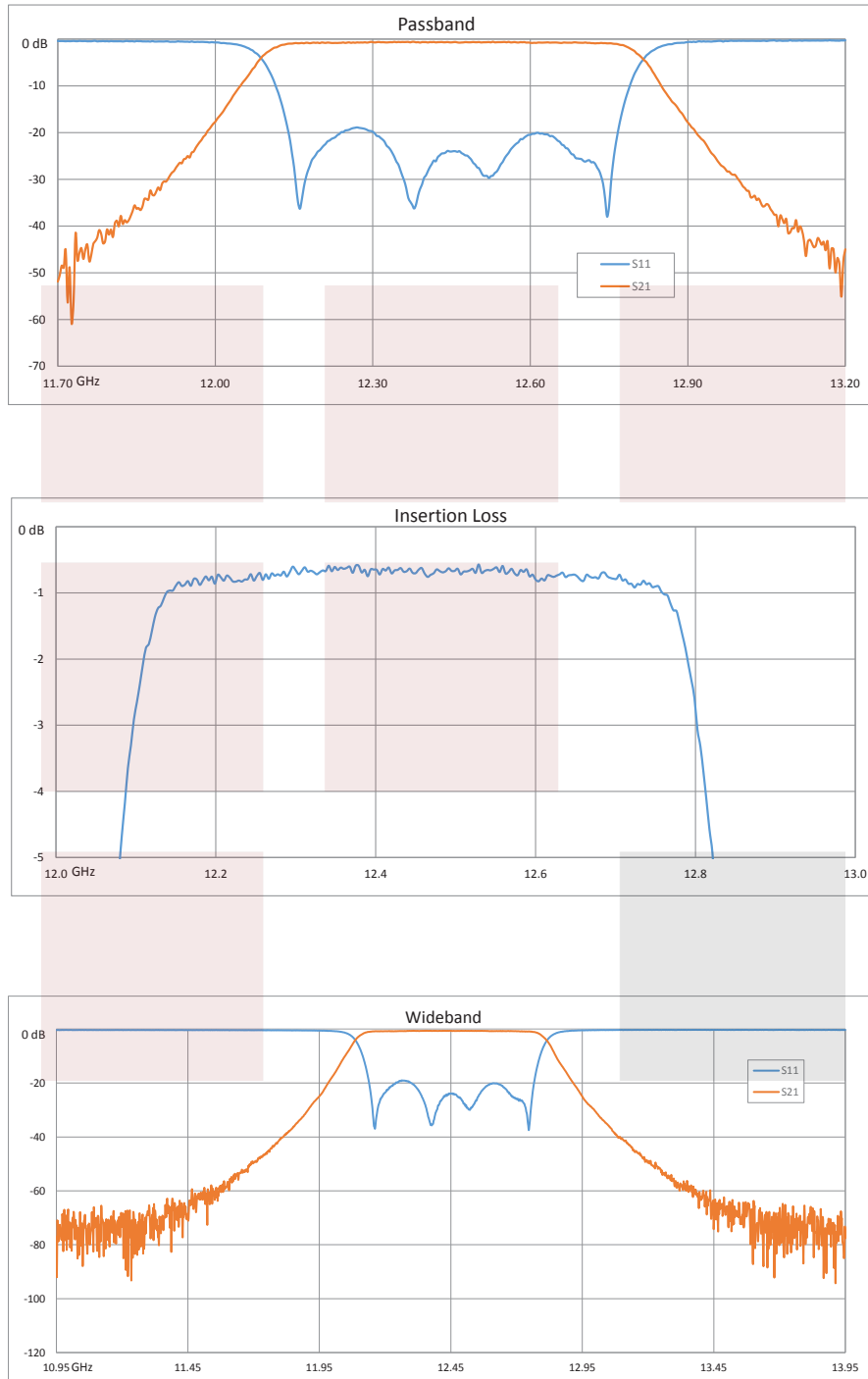
Pass band of 500 MHz
 12.2 GHz to 12.7 GHz
 Six section
 Comblin filter design
 50 dB rejection at 11.45 GHz and 13.45 GHz (1 GHz from band center)
 Typical insertion loss of 1.5 dB
 Female SMA connectors

Applications:

Satellite communications

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Typical Performance Data

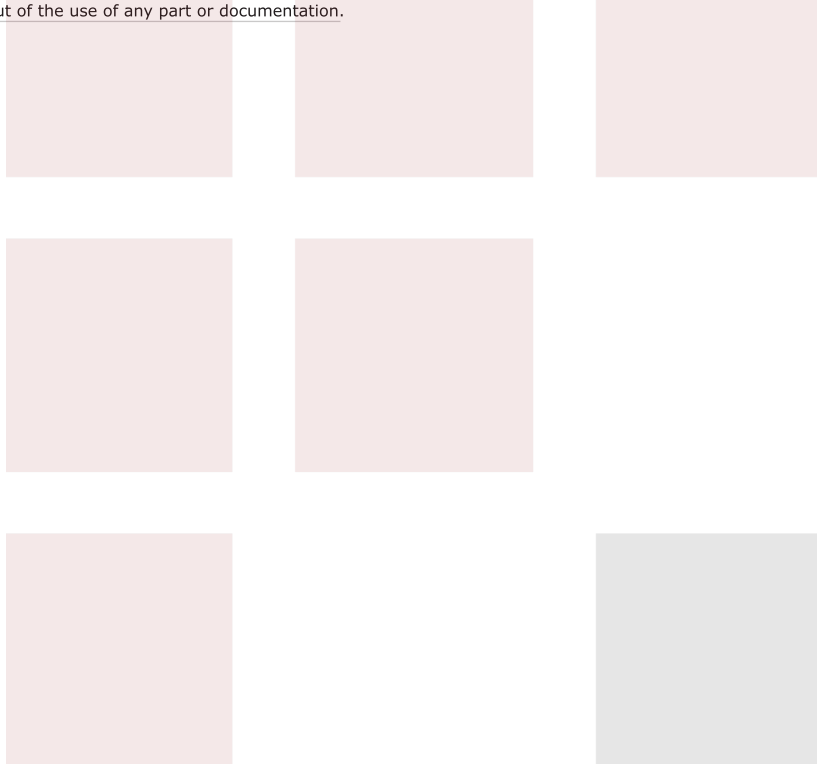


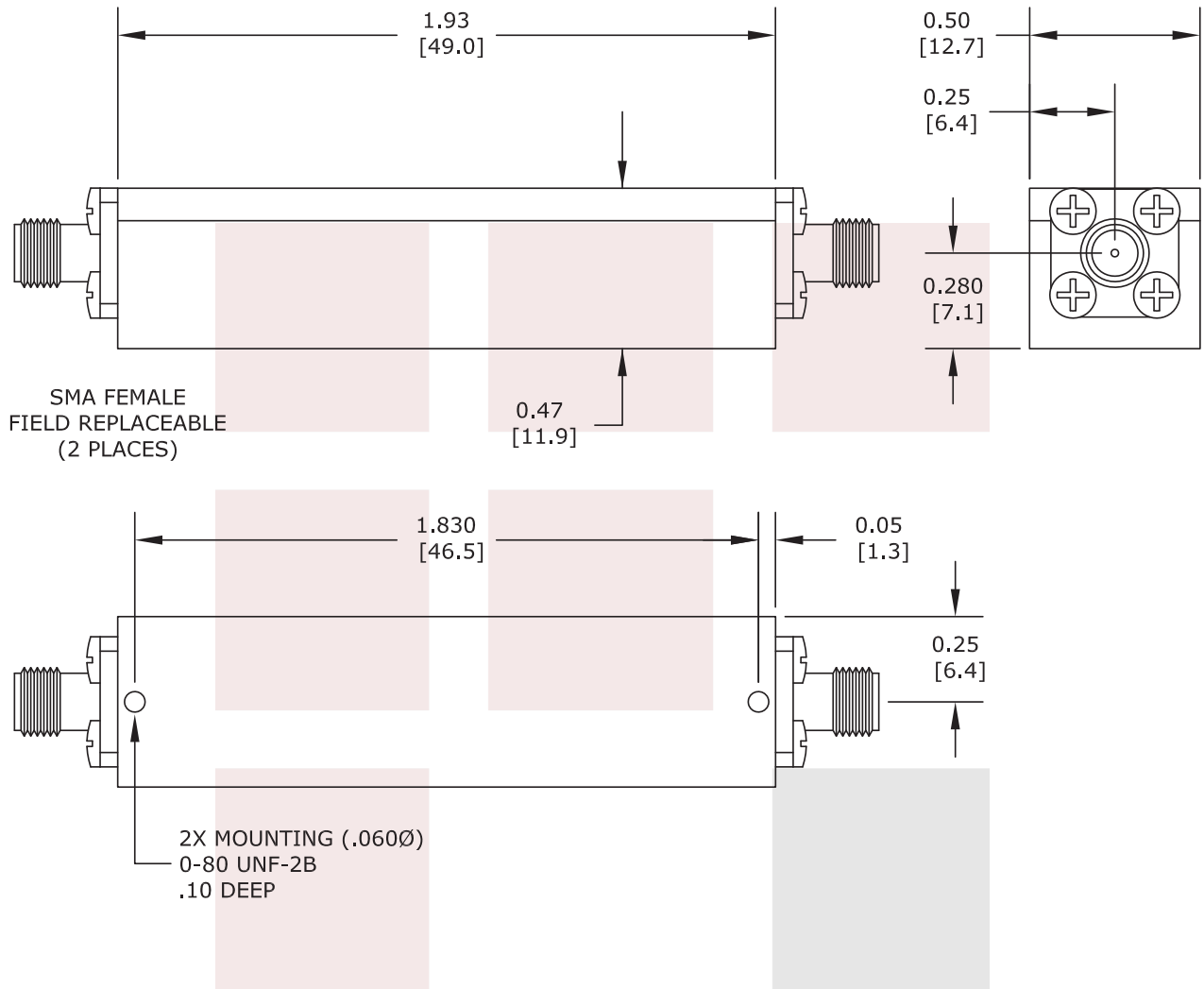
Bandpass Cavity Filter Operating From 12.2 GHz to 12.7 GHz With SMA Female Connectors from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Bandpass Cavity Filter Operating From 12.2 GHz to 12.7 GHz With SMA Female Connectors FMFL1004](#)

URL: <http://www.fairviewmicrowave.com/bandpass-cavity-filter-12.2-12.7-ghz-sma-female-connectors-fmfl1004-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.

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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 12.2 GHz to 12.7 GHz With SMA Female Connectors

DWG NO	FMFL1004	CAGE CODE	3FKR5		
CAD FILE	120415	SHEET	SCALE	N/A	SIZE A 2233