

## Bandpass Cavity Filter Operating From 1 GHz to 2 GHz With SMA Female Connectors

The FMFL1012 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 1000 MHz wide, from 1 GHz to 2 GHz. Implemented using a Comblines design, the filter has excellent rejection of 55 dB at 650 MHz and 3 GHz, or  $\pm 1.5$  GHz from mid band. It has a maximum insertion loss of 2 dB. The FMFL1012 has SMA female connectors.

### Electrical Specifications

Description	Min	Typ	Max	Units
Passband Frequency	1		2	GHz
Impedance		50		Ohms
Insertion Loss		1.5	2	dB
Passband VSWR		1.7:1		
Rejection at 650 MHz	55			dB
Rejection at 3 GHz	55			dB
Input Power, CW			2	Watts

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

### Mechanical Specifications

Size	
Length	1.6 in [40.64 mm]
Width	0.55 in [13.97 mm]
Height	0.44 in [11.18 mm]

### Configuration

Design	Comblines
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](http://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:

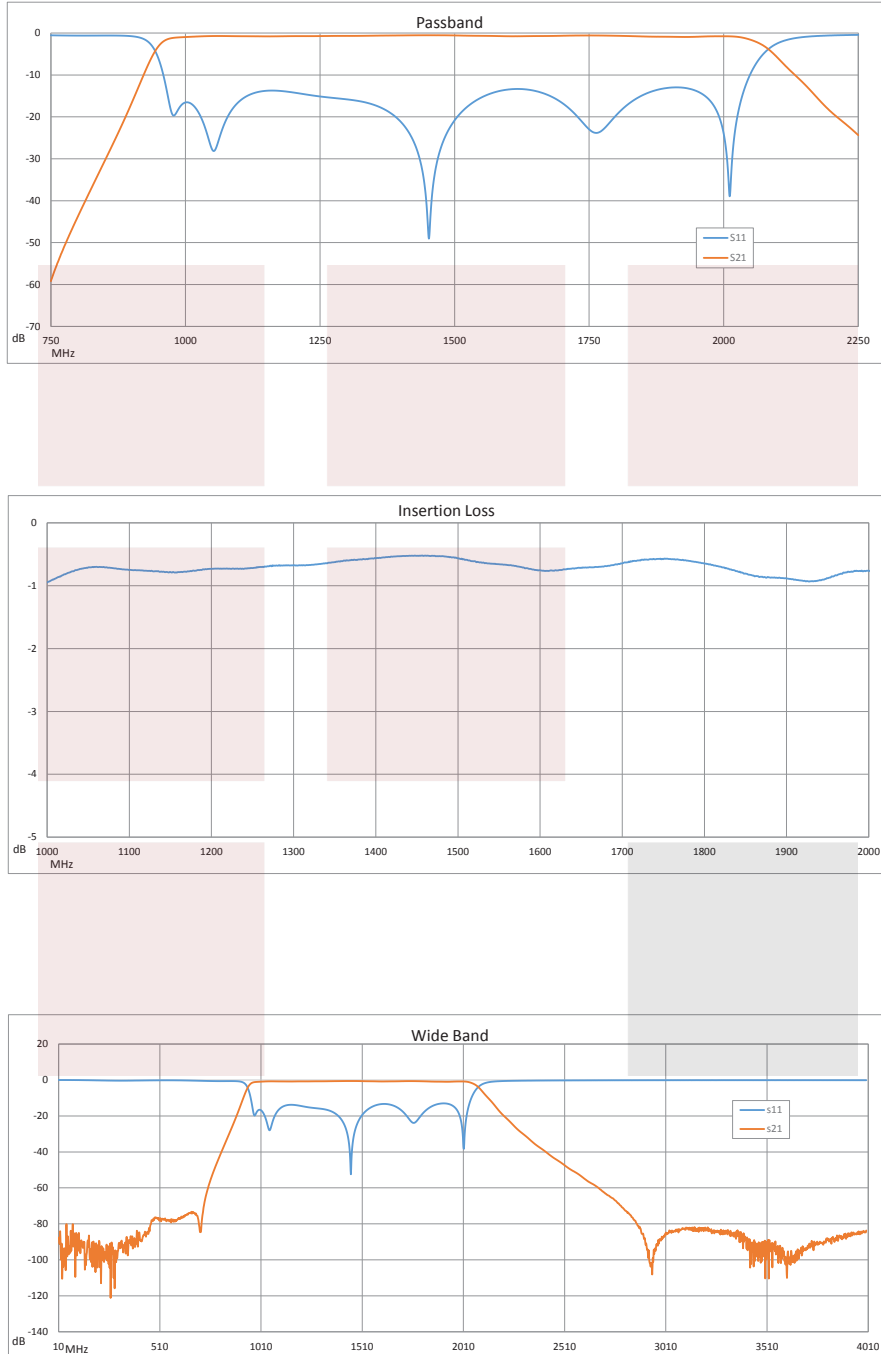
- Pass band of 1000 MHz
- 1 GHz to 2 GHz
- Eleven section
- Comblines filter design
- 55 dB rejection at 650 MHz and 3 GHz (1.5 GHz from band center)
- Typical insertion loss of 1.5 dB
- Female SMA connectors

### Applications:

- Satellite communications

Fairview Microwave  
 1130 Junction Dr. #100  
 Allen, TX 75013  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

**Typical Performance Data**



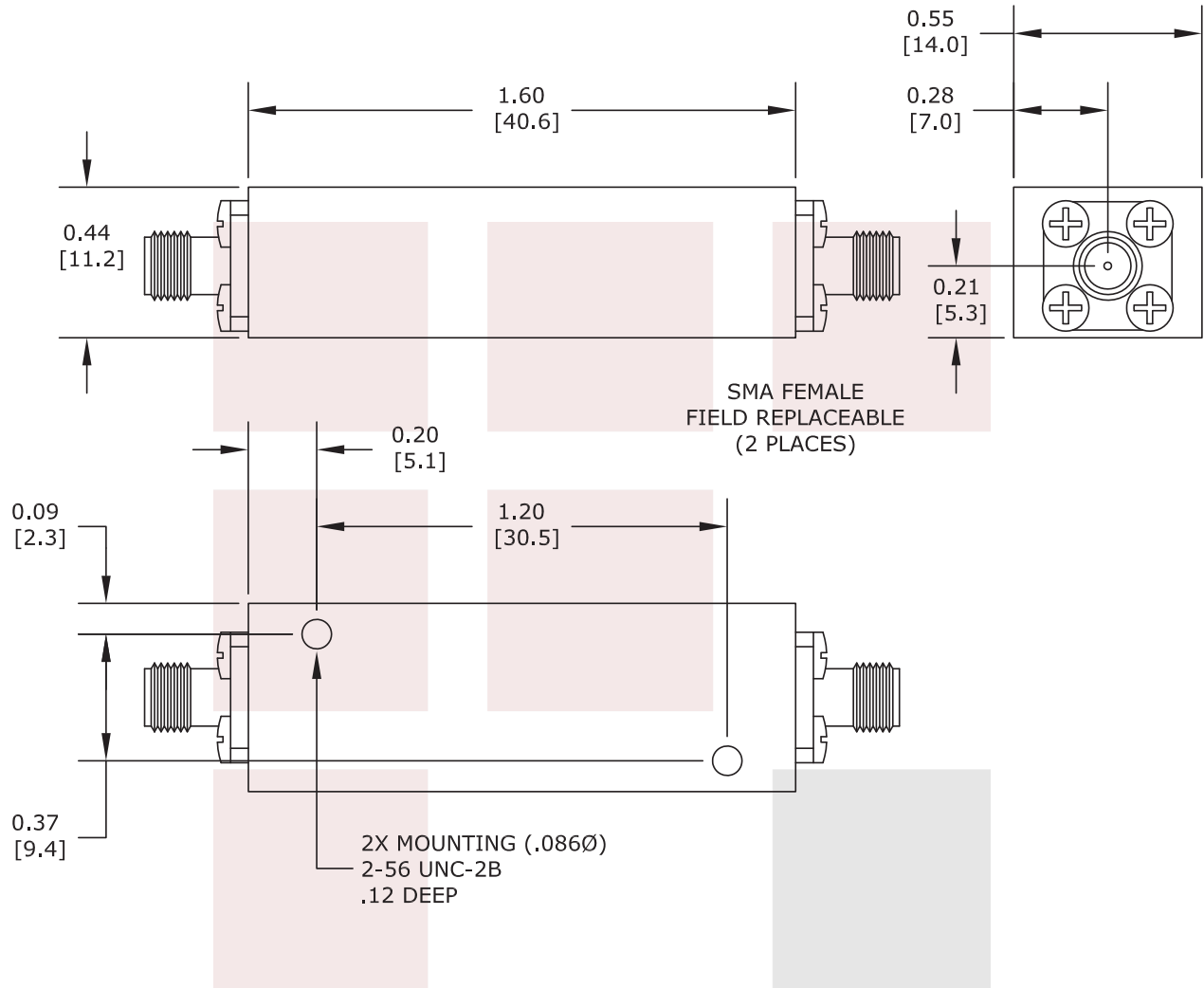
Bandpass Cavity Filter Operating From 1 GHz to 2 GHz With SMA Female Connectors from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Bandpass Cavity Filter Operating From 1 GHz to 2 GHz With SMA Female Connectors FMFL1012](#)

URL: <http://www.fairviewmicrowave.com/bandpass-cavity-filter-1-2-ghz-sma-female-connectors-fmfl1012-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.

<b>FAIRVIEW MICROWAVE INC.</b> 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 1 GHz to 2 GHz With SMA Female Connectors	DWG NO FMFL1012	CAGE CODE 3FKR5			
CAD FILE 110215	SHEET	SCALE N/A	SIZE A	2233	