

Bandpass Cavity Filter Operating From 2 GHz to 4 GHz With SMA Female Connectors

The FMFL1013 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 2000 MHz wide, from 2 GHz to 4 GHz. Implemented using a Compline design, the filter has excellent rejection of 55 dB at 1.3 GHz and 6 GHz, or ± 3 GHz from mid band. It has a maximum insertion loss of 2 dB. The FMFL1013 has SMA female connectors.

Electrical Specifications

Description	Min	Typ	Max	Units
Passband Frequency	2		4	GHz
Impedance		50		Ohms
Insertion Loss		1.5	2	dB
Passband VSWR		1.7:1		
Rejection at 1.3 GHz	55			dB
Rejection at 6 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	Compline
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:

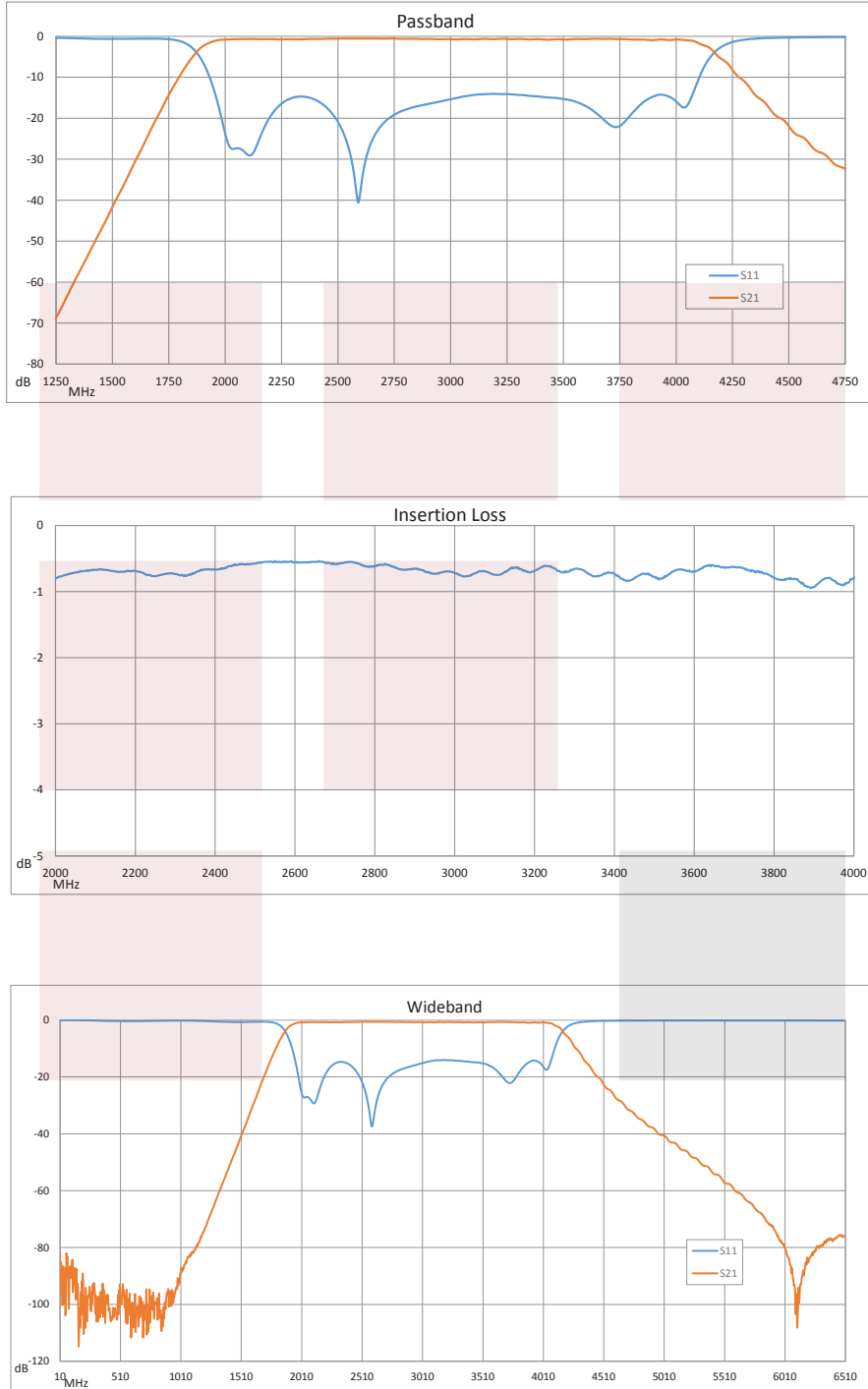
- Pass band of 2000 MHz
- 2 GHz to 4 GHz
- Eleven section
- Compline filter design
- 55 dB rejection at 1.3 GHz and 6 GHz (3 GHz from band center)
- Typical insertion loss of 1.5 dB
- Female SMA connectors

Applications:

Satellite communications

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Typical Performance Data



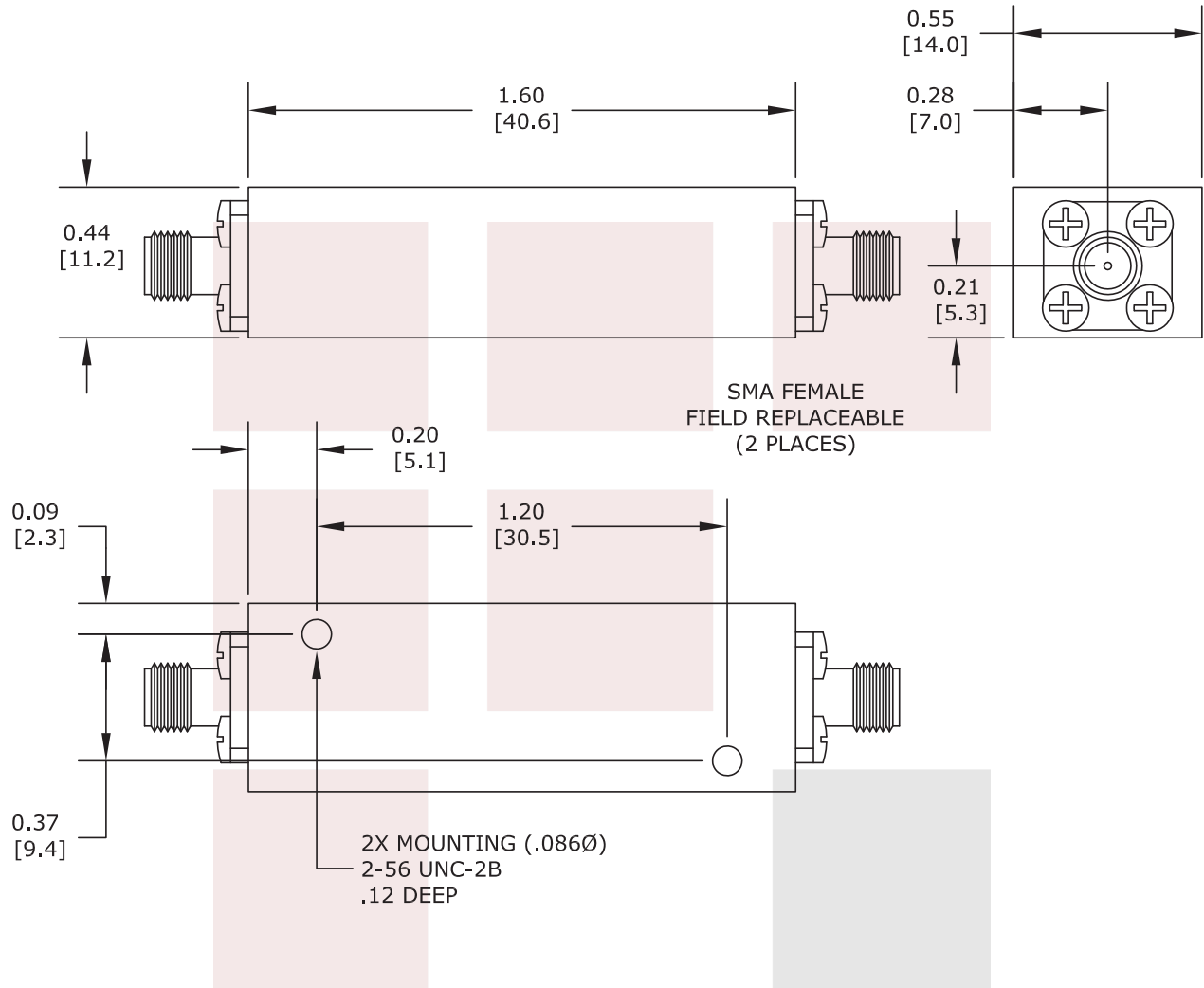
Bandpass Cavity Filter Operating From 2 GHz to 4 GHz With SMA Female Connectors from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Bandpass Cavity Filter Operating From 2 GHz to 4 GHz With SMA Female Connectors FMFL1013](#)

URL: <http://www.fairviewmicrowave.com/bandpass-cavity-filter-2-4-ghz-sma-female-connectors-fmfl1013-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 2 GHz to 4 GHz With SMA Female Connectors	DWG NO FMFL1013	CAGE CODE 3FKR5			
CAD FILE 110215	SHEET	SCALE N/A	SIZE A	2233	