

Bandpass Cavity Filter Operating From 18.2 GHz to 19.2 GHz With SMA Female Connectors

The FMFL1009 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 1000 MHz wide, from 18.2 GHz to 19.2 GHz. Implemented using a Comblaine design, the filter has excellent rejection of 35 dB at 17.2 GHz and 20.2 GHz, or ± 1.5 GHz from mid band. It has a maximum insertion loss of 1.5 dB. The FMFL1009 has SMA female connectors.

Electrical Specifications

Description	Min	Typ	Max	Units
Passband Frequency	18.2		19.2	GHz
Impedance		50		Ohms
Insertion Loss			1.5	dB
Passband VSWR		1.4:1		
Rejection at 17.2 GHz	35			dB
Rejection at 20.2 GHz	35			dB
Input Power, CW			2	Watts

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

Mechanical Specifications

Size	
Length	1.55 in [39.37 mm]
Width	0.45 in [11.43 mm]
Height	0.4 in [10.16 mm]

Configuration

Design	Comblaine
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:

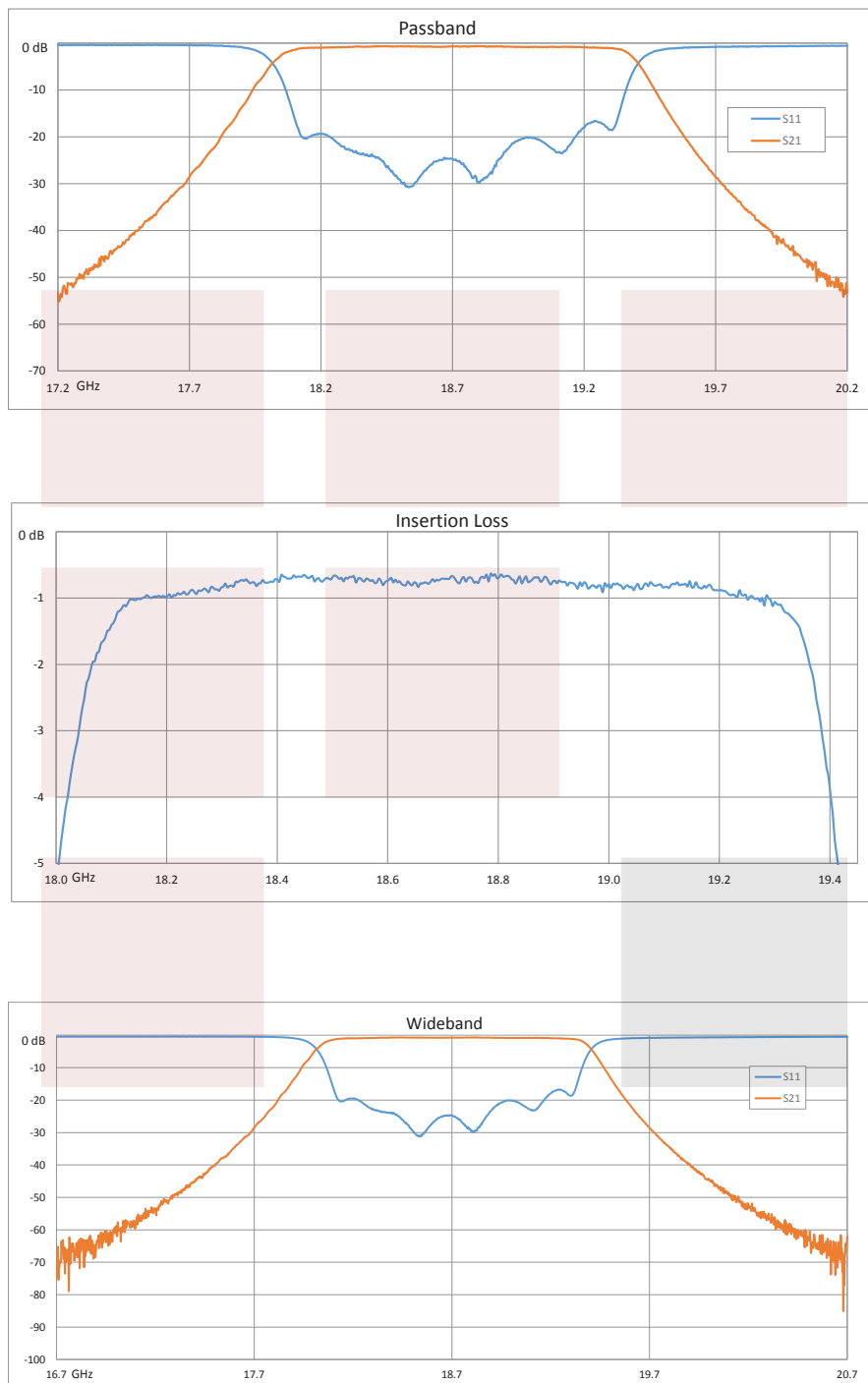
Pass band of 1000 MHz
18.2 GHz to 19.2 GHz
Six section
Comblaine filter design
35 dB rejection at 17.2 GHz and 20.2 GHz (1.5 GHz from band center)
Typical insertion loss of 1.5 dB
Female SMA connectors

Applications:

Satellite communications

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Typical Performance Data



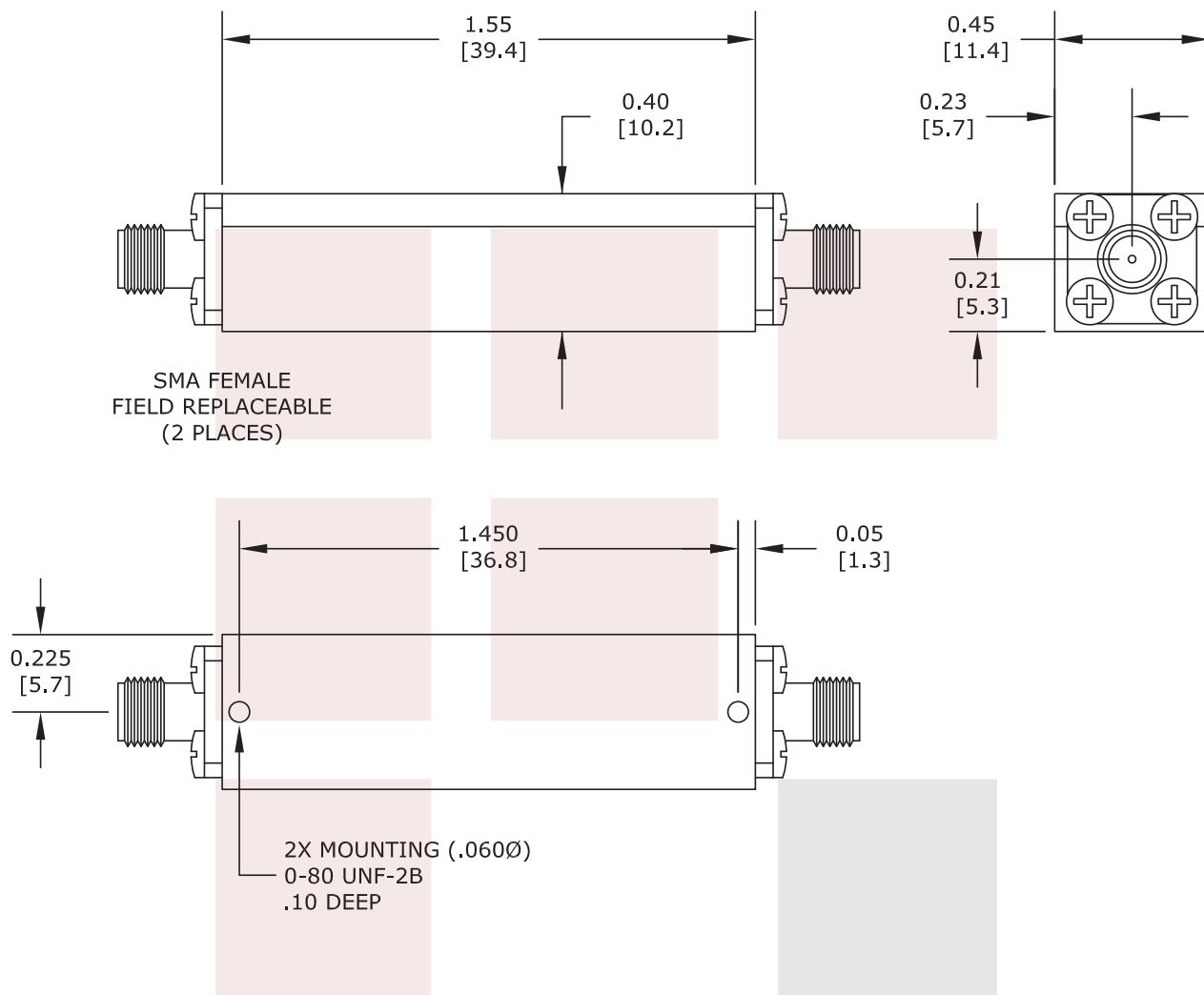
Bandpass Cavity Filter Operating From 18.2 GHz to 19.2 GHz With SMA Female Connectors from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Bandpass Cavity Filter Operating From 18.2 GHz to 19.2 GHz With SMA Female Connectors FMFL1009](#)

URL: <http://www.fairviewmicrowave.com/bandpass-cavity-filter-18.2-19.2-ghz-sma-female-connectors-fmfl1009-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 18.2 GHz to 19.2 GHz With SMA Female Connectors	DWG NO FMFL1009		CAGE CODE 3FKR5		
	CAD FILE 120415	SHEET	SCALE N/A	SIZE A	2233