

Bandpass Cavity Filter Operating From 17.2 GHz to 21.2 GHz With SMA Female Connectors

The FMFL1007 is an eight section band pass filter. It is part of a family of filters that is useful for satellite communications. The pass band is 4000 MHz wide, from 17.2 GHz to 21.2 GHz. Implemented using a Combline design, the filter has excellent rejection of 50 dB at 13.45 GHz and 24.95 GHz, or ± 5.75 GHz from mid band. It has a maximum insertion loss of 1 dB. The FMFL1007 has SMA female connectors.

Electrical Specifications

Description	Min	Typ	Max	Units
Passband Frequency	17.2		21.2	GHz
Impedance		50		Ohms
Insertion Loss			1	dB
Passband VSWR		1.4:1		
Rejection at 13.45 GHz	50			dB
Rejection at 24.95 GHz	50			dB
Input Power, CW			2	Watts

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

Mechanical Specifications

Size	
Length	1.32 in [33.53 mm]
Width	0.5 in [12.7 mm]
Height	0.4 in [10.16 mm]

Configuration

Design	Combline
Number of Sections	8
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:

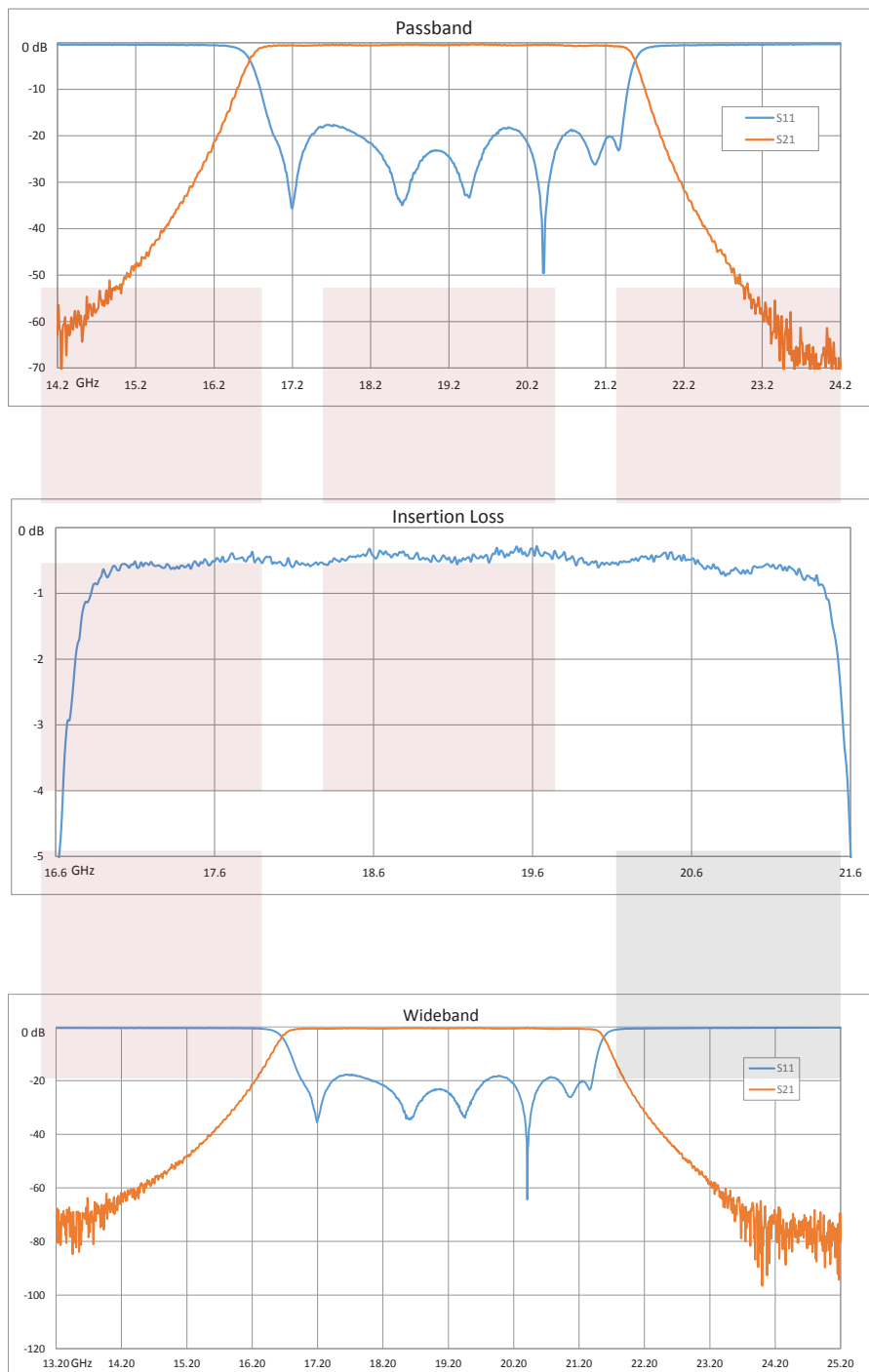
Pass band of 4000 MHz
17.2 GHz to 21.2 GHz
Eight section
Combline filter design
50 dB rejection at 13.45 GHz and 24.95 GHz (5.75 GHz from band center)
Typical insertion loss of 1 dB
Female SMA connectors

Applications:

Satellite communications

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Typical Performance Data

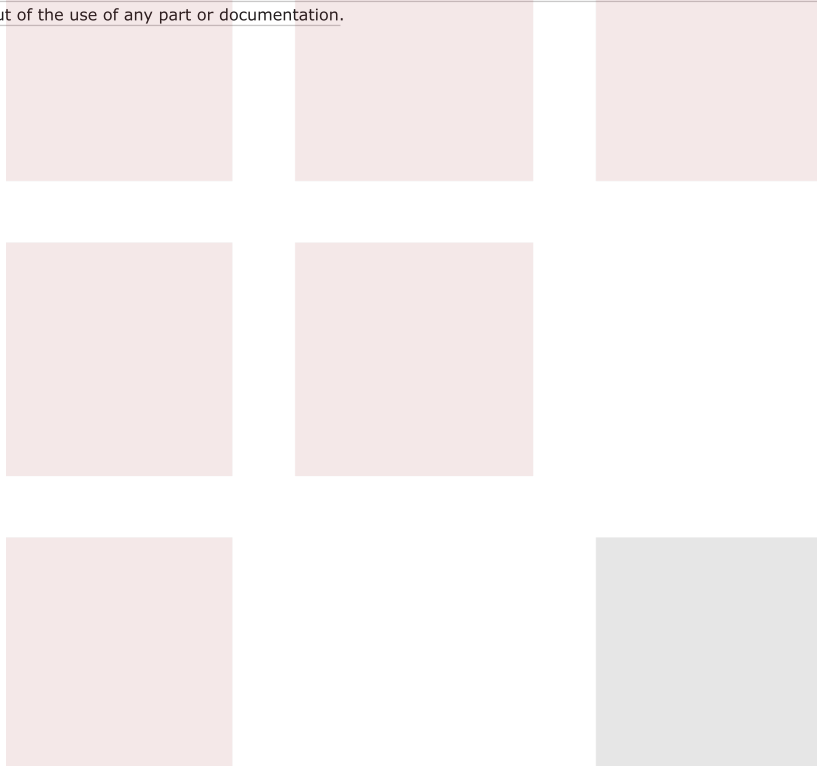


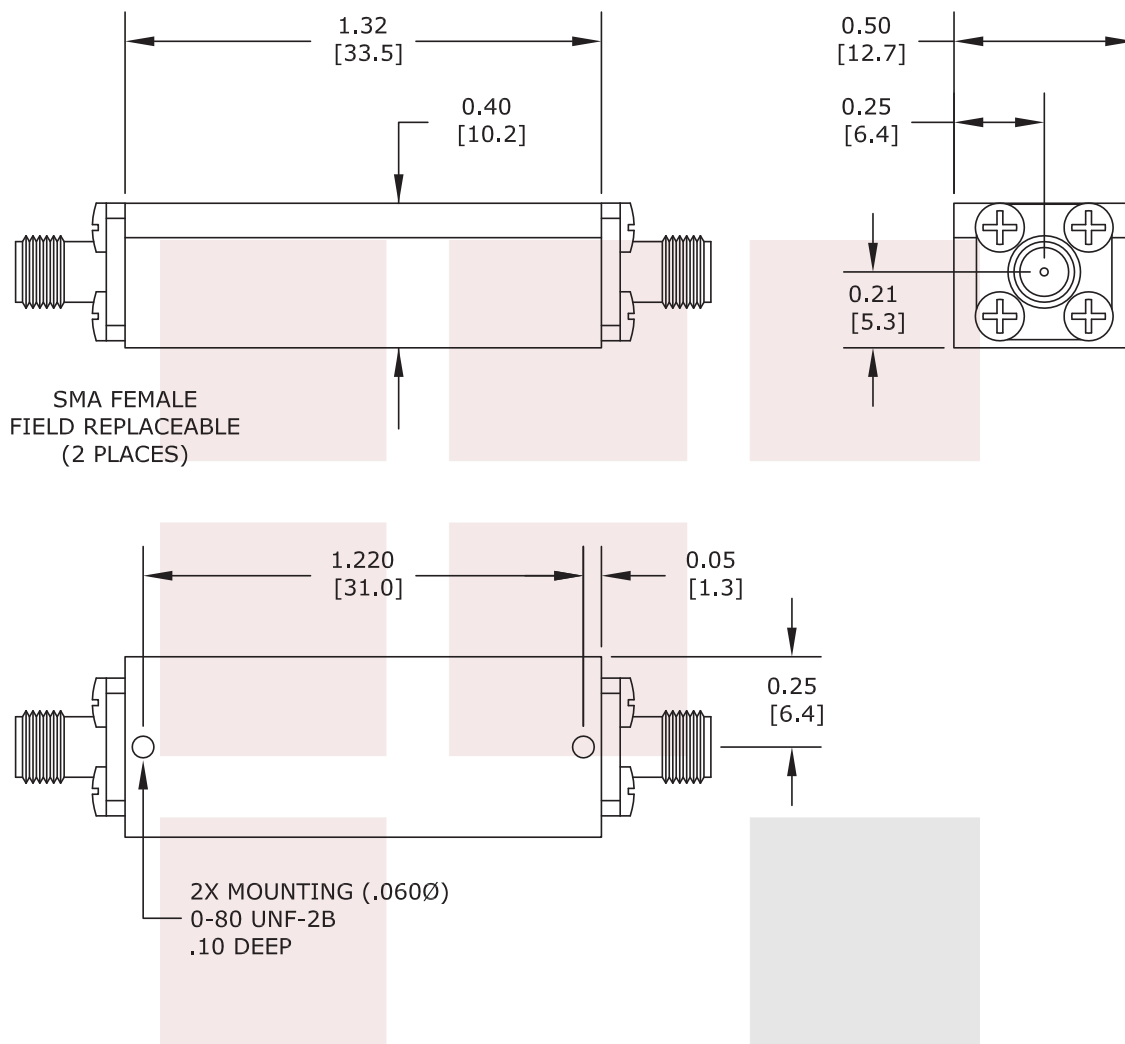
Bandpass Cavity Filter Operating From 17.2 GHz to 21.2 GHz With SMA Female Connectors from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Bandpass Cavity Filter Operating From 17.2 GHz to 21.2 GHz With SMA Female Connectors FMFL1007](#)

URL: <http://www.fairviewmicrowave.com/bandpass-cavity-filter-17.2-21.2-ghz-sma-female-connectors-fmfl1007-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 17.2 GHz to 21.2 GHz With SMA Female Connectors	DWG NO FMFL1007		CAGE CODE 3FKR5		
	CAD FILE 120415	SHEET	SCALE N/A	SIZE A	2233