



Bandpass Cavity Filter Operating From 9.9 GHz to 10.8 GHz With SMA Female Connectors

The FMFL1000 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 900 MHz wide, from 9.9 GHz to 10.8 GHz. Implemented using a Combline design, the filter has excellent rejection of 50 dB at 8.35 GHz and 12.35 GHz, or ±2 GHz from mid band. It has a maximum insertion loss of 1 dB. The FMFL1000 has SMA female connectors.



Electrical Specifications

Description	Min	Тур	Max	Units
Passband Frequency	9.9		10.8	GHz
Impedance		50		Ohms
Insertion Loss			1	dB
Passband VSWR		1.4:1		
Rejection at 8.35 GHz	50			dB
Rejection at 12.35 GHz	50			dB
Input Power, CW			2	Watts

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

Mechanical Specifications

Size

2.07 in [52.58 mm] Lenath Width 0.5 in [12.7 mm] 0.47 in [11.94 mm] Height

Configuration

Design Number of Sections Package Style Connector 1

Connectorized SMA Female Connector 2 SMA Female Connector Option Field Replaceable

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

Combline

RoHS Compliant

REACH Compliant 06/14/2014

Plotted and Other Data

Notes:

Values at 25°C, sea level.

Features:

Pass band of 900 MHz 9.9 GHz to 10.8 GHz Eight section Combline filter design 50 dB rejection at 8.35 GHz and 12.35 GHz (1.55 GHz from band center) Typical insertion loss of 1 dB Female SMA connectors

Applications:

Satellite communications

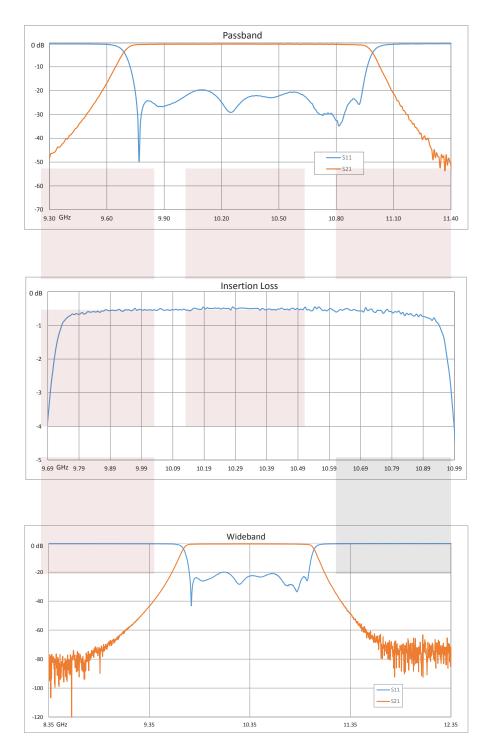
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Typical Performance Data







Bandpass Cavity Filter Operating From 9.9 GHz to 10.8 GHz With SMA Female Connectors from Fairview Microwave is instock 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.

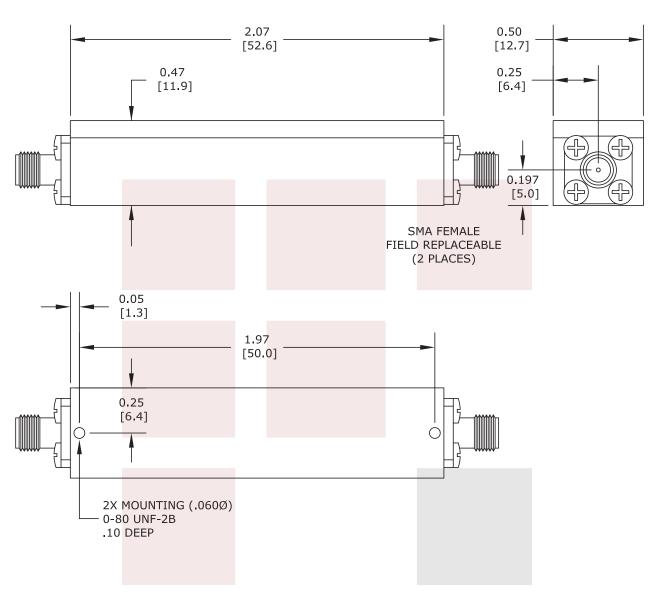
For additional information on this product, please click the following link: Bandpass Cavity Filter Operating From 9.9 GHz to 10.8 GHz With SMA Female Connectors FMFL1000

URL: http://www.fairviewmicrowave.com/bandpass-cavity-filter-9.9-10.8-ghz-sma-female-connectors-fmfl1000-p.aspx









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].					
Bandpass Cavity Filter Operating From 9.9 GHz to 10.8 GHz With SMA Female Connectors	DWG NO FMFL1000			CAGE CODE 3FKR5		
	CAD FILE 120415	SHEET	SCALE	N/A	SIZE A	2233