



# **Bandpass Cavity Filter Operating From 10.7 GHz to** 12.2 GHz With SMA Female Connectors

The FMFL1003 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 1500 MHz wide, from 10.7 GHz to 12.2 GHz. Implemented using a Combline design, the filter has excellent rejection of 50 dB at 8.45 GHz and 14.45 GHz, or ±3 GHz from mid band. It has a maximum insertion loss of 1 dB. The FMFL1003 has SMA female connectors.



### **Electrical Specifications**

Description	Min	Тур	Max	Units
Passband Frequency	10.7		12.2	GHz
Impedance		50		Ohms
Insertion Loss			1	dB
Passband VSWR		1.4:1		
Rejection at 8.45 GHz	50			dB
Rejection at 14.45 GHz	50			dB
Input Power, CW			2	Watts

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

### **Mechanical Specifications**

Size Lenath Width Height

1.44 in [36.58 mm] 0.5 in [12.7 mm] 0.47 in [11.94 mm]

Configuration

Design Number of Sections Package Style Connector 1 Connector 2

Connector Option

Combline Connectorized SMA Female SMA Female Field Replaceable

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

RoHS Compliant

**REACH Compliant** 06/14/2014

#### **Plotted and Other Data**

Notes:

Values at 25°C, sea level.

### Features:

Pass band of 1500 MHz 10.7 GHz to 12.2 GHz Six section Combline filter design 50 dB rejection at 8.45 GHz and 14.45 GHz (3 GHz from band center) Typical insertion loss of 1 dB Female SMA connectors

# **Applications:**

Satellite communications

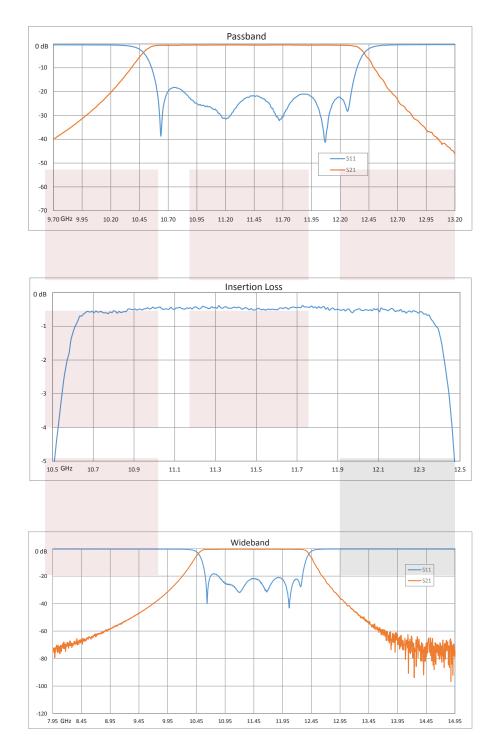
Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

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## **Typical Performance Data**







Bandpass Cavity Filter Operating From 10.7 GHz to 12.2 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.

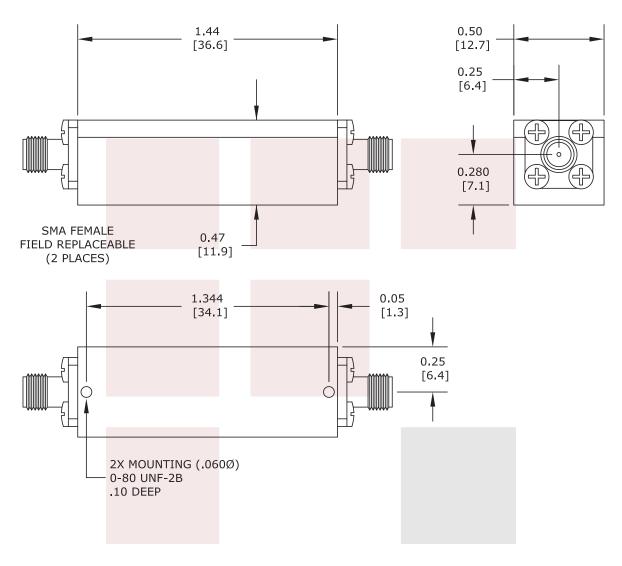
For additional information on this product, please click the following link: Bandpass Cavity Filter Operating From 10.7 GHz to 12.2 GHz With SMA Female Connectors FMFL1003

URL: http://www.fairviewmicrowave.com/bandpass-cavity-filter-10.7-12.2-ghz-sma-female-connectors-fmfl1003-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 10.7 GHz to 12.2 GHz With SMA Female Connectors	DWG NO FMFL1003			CAGE CODE 3FKR5			
	CAD FILE 120415	SHEET	SCALE	N/A	SIZE A	2233	