



Bandpass Cavity Filter Operating From 14 GHz to 14.8 GHz With SMA Female Connectors

The FMFL1005 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 800 MHz wide, from 14 GHz to 14.8 GHz. Implemented using a Combline design, the filter has excellent rejection of 50 dB at 12.85 GHz and 15.95 GHz, or ± 1.55 GHz from mid band. It has a maximum insertion loss of 1.5 dB. The FMFL1005 has SMA female connectors.



Electrical Specifications

Description	Min	Тур	Max	Units
Passband Frequency	14		14.8	GHz
Impedance		50		Ohms
Insertion Loss			1.5	dB
Passband VSWR		1.4:1		
Rejection at 12.85 GHz	50			dB
Rejection at 15.95 GHz	50			dB
Input Power, CW			2	Watts

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

Mechanical Specifications

Size Lenath Width

1.85 in [46.99 mm] 0.5 in [12.7 mm] 0.47 in [11.94 mm] Height

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 800 MHz 14 GHz to 14.8 GHz Six section Combline filter design 50 dB rejection at 12.85 GHz and 15.95 GHz (1.55 GHz from band center) Typical insertion loss of 1.5 dB Female SMA connectors

Applications:

Satellite communications

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

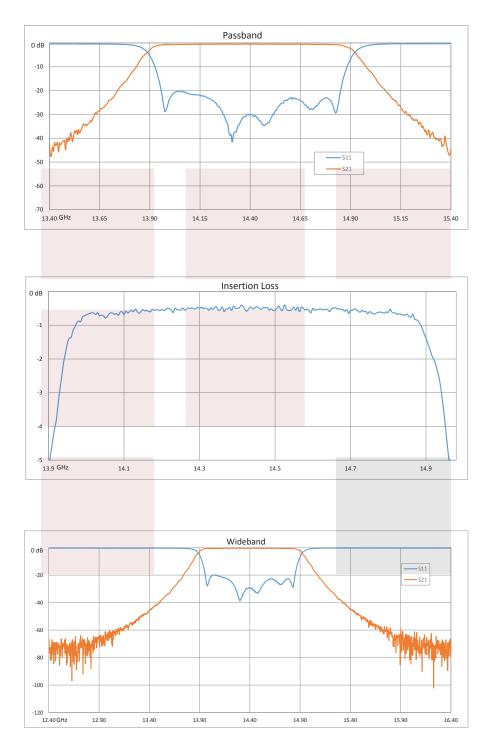
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Typical Performance Data







Bandpass Cavity Filter Operating From 14 GHz to 14.8 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 14 GHz to 14.8 GHz With SMA Female Connectors FMFL1005

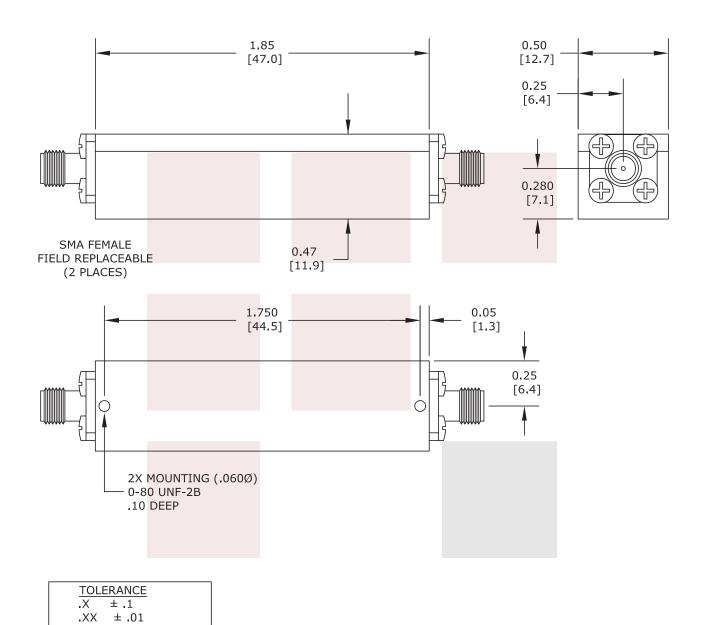
The information contained in this document is accurate to the best of our knowledge and representative of the part

URL: http://www.fairviewmicrowave.com/bandpass-cavity-filter-14-14.8-ghz-sma-female-connectors-fmfl1005-p.aspx

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* THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.

.XXX ± .005 .XXXX ± .0010

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Bandpass Cavity Filter Operating From 14 GHz to 14	DWG NO FMFL1005			CAGE CODE 3FKR5		
GHz With SMA Female Connectors	CAD FILE 120415	SHEET	SCALI	SCALE N/A S		2233