

Bandpass Cavity Filter Operating From 1 GHz to 2 GHz With SMA Female Connectors

The FMFL1012 is an eleven 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 1 GHz to 2 GHz. Implemented using a Combline design, the filter has excellent rejection of 55 dB at 650 MHz and 3 GHz, or ± 1.5 GHz from mid band. It has a maximum insertion loss of 2 dB. The FMFL1012 has SMA female connectors.

Electrical Specifications

Description	Min	Typ	Max	Units
Passband Frequency	1		2	GHz
Impedance		50		Ohms
Insertion Loss		1.5	2	dB
Passband VSWR		1.7:1		
Rejection at 650 MHz	55			dB
Rejection at 3 GHz	55			dB
Input Power, CW			2	Watts

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

Mechanical Specifications

Size

Length	1.6 in [40.64 mm]
Width	0.55 in [13.97 mm]
Height	0.44 in [11.18 mm]

Configuration

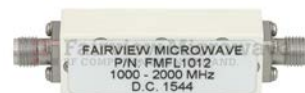
Design	Combline
Number of Sections	11
Package Style	Connectorized
Connector 1	SMA Female
Connector 2	SMA Female
Connector Option	Field Replaceable

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:

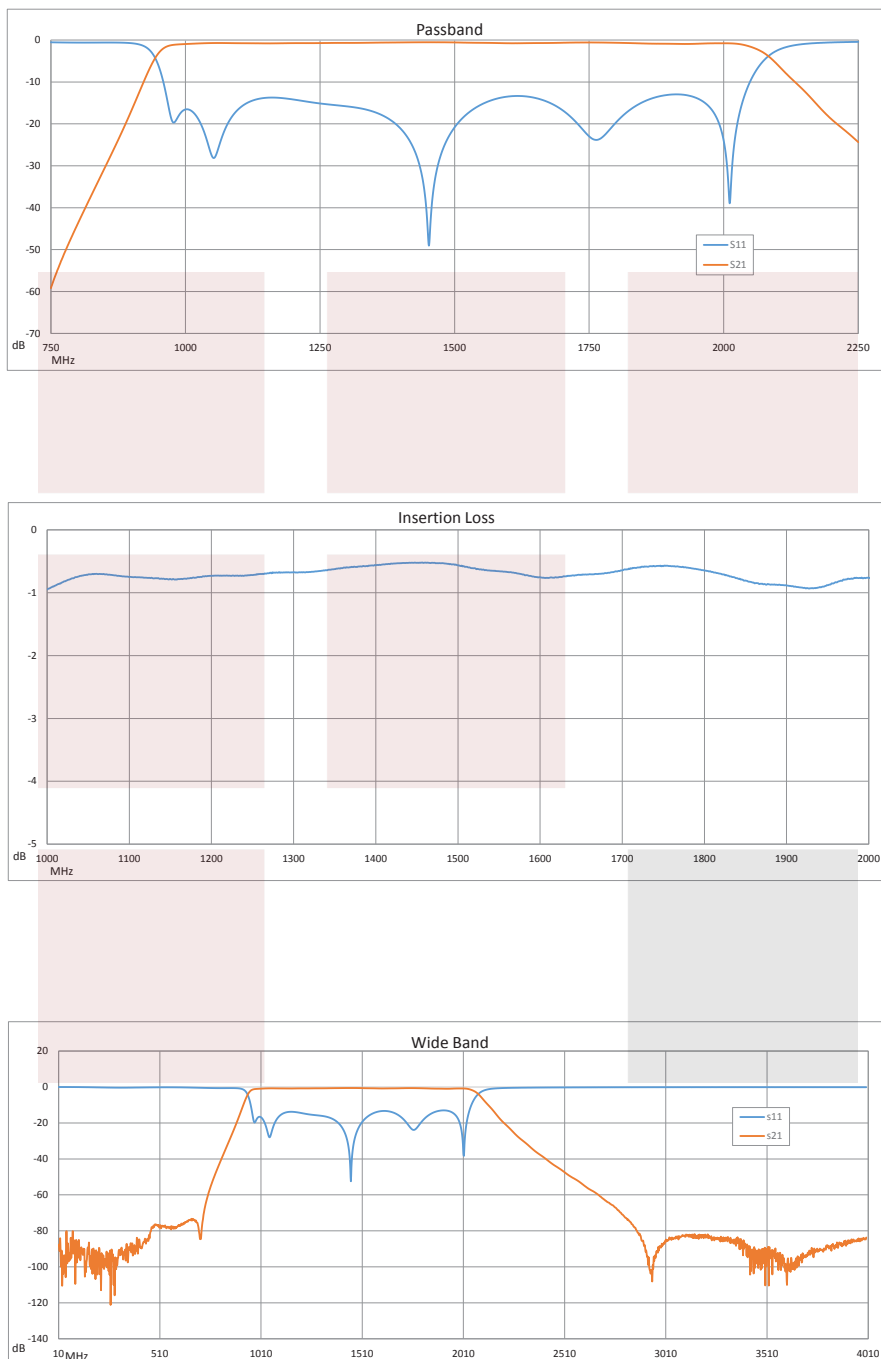
Pass band of 1000 MHz
1 GHz to 2 GHz
Eleven section
Combline filter design
55 dB rejection at 650 MHz and 3 GHz (1.5 GHz from band center)
Typical insertion loss of 1.5 dB
Female SMA connectors

Applications:

Satellite communications

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Typical Performance Data

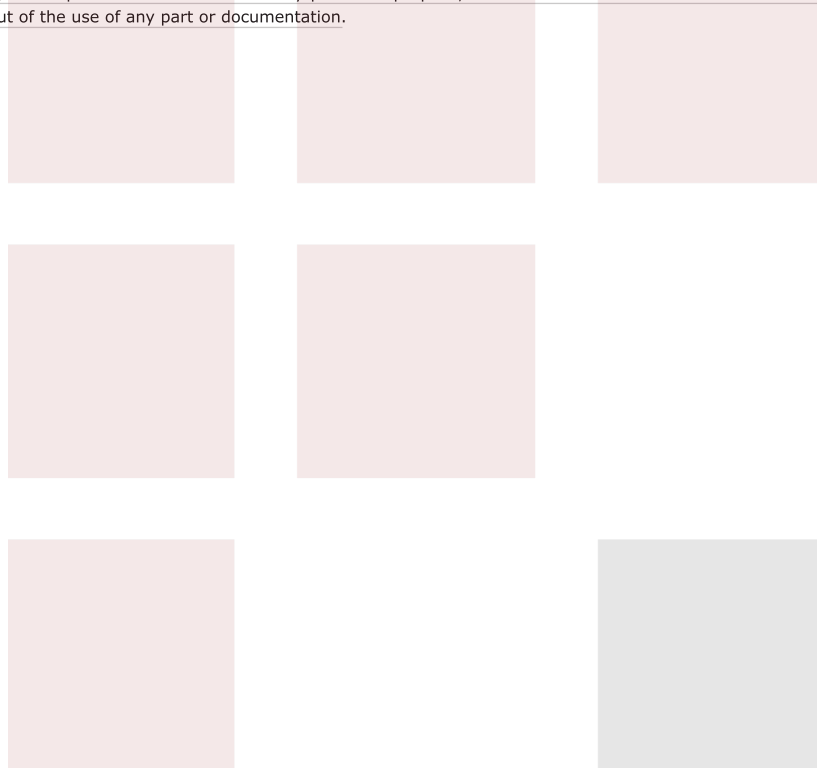


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For additional information on this product, please click the following link: [Bandpass Cavity Filter Operating From 1 GHz to 2 GHz With SMA Female Connectors FMFL1012](#)

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