

Bandpass Cavity Filter Operating From 2.4 GHz to 2.5 GHz With SMA Female Connectors

The SF24251 is a three section band pass filter that is useful for filtering for ISM uses. The pass band is 100 MHz, or 2.4 to 2.5 GHz. Implementing a combline design, the filter has excellent rejection of 55 dB minimum at 2 GHz and 2.9 GHz, or about 400 MHz from the band edges. It has a maximum insertion loss of 1 dB. The SF24251 has SMA Female connectors.

Electrical Specifications

Description	Min	Typ	Max	Units
Passband Frequency	2.4		2.5	GHz
Impedance		50		Ohms
Insertion Loss			1	dB
Passband VSWR		1.5:1		
Rejection at 2 GHz	55			dB
Rejection at 2.9 GHz	55			dB
Input Power, CW			5	Watts

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

Mechanical Specifications

Size		
Length		1.8 in [45.72 mm]
Width		1.06 in [26.92 mm]
Height		0.53 in [13.46 mm]
Weight		0.197 lbs [89.36 g]
Configuration		
Design		Comblne
Number of Sections		3
Package Style		Connectorized Module
Connector 1		SMA Female
Connector 2		SMA Female

Environmental Specifications

Temperature	
Operating Range	-55 to +120 deg C

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

RoHS Compliant	Yes
REACH Compliant	12/17/2015

Plotted and Other Data

Notes:



Features:

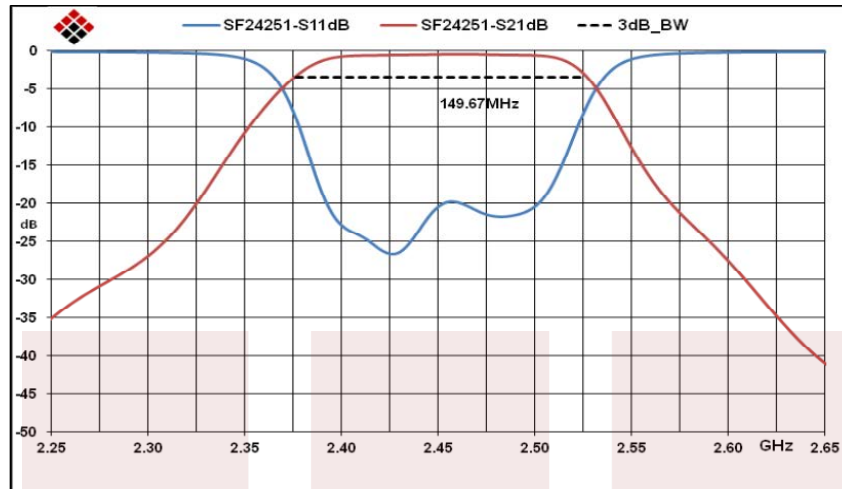
- Pass band of 100 MHz
- 2.4 to 2.5 GHz
- Three section
- Comblne filter design
- 55 dB minimum rejection at 2 GHz and 2.9 GHz (about 400 MHz from band edge)
- Maximum insertion loss of 1 dB
- Female SMA connectors

Applications:

- ISM

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Typical Performance Data



Bandpass Cavity Filter Operating From 2.4 GHz to 2.5 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 2.4 GHz to 2.5 GHz With SMA Female Connectors SF24251](http://www.fairviewmicrowave.com/bandpass-cavity-filter-2.4-2.5-ghz-with-sma-female-connectors-sf24251-p.aspx)

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