

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	Comblin
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:

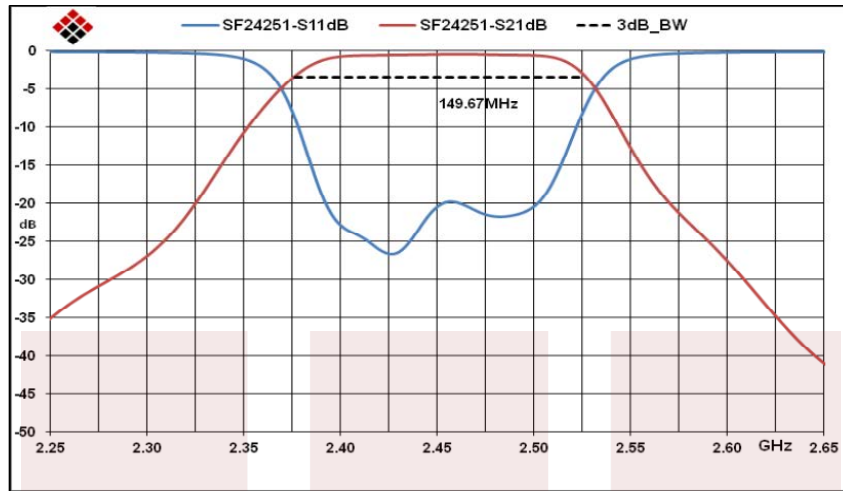
- Pass band of 100 MHz
- 2.4 to 2.5 GHz
- Three section
- Comblin filter design
- 55 dB minimum rejection at 2 GHz and 2.9 GHz (about 400 MHz from band edge)
- Maximum insertion loss of 1 dB
- Female SMA connectors

Applications:

- ISM

Fairview Microwave
 1130 Junction Dr. #100
 Allen, TX 75013
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Typical Performance Data

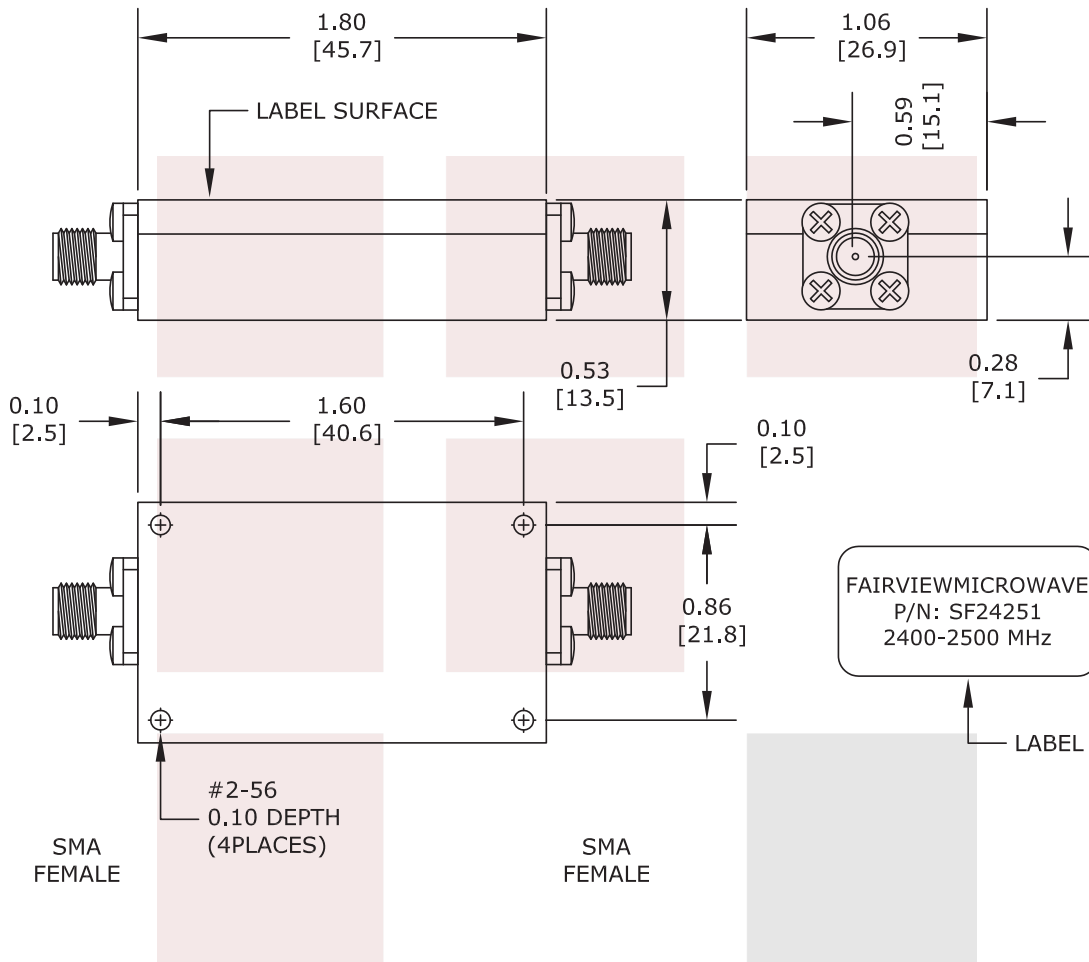


Bandpass Cavity Filter Operating From 2.4 GHz to 2.5 GHz With SMA Female Connectors from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

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](#)

URL: <http://www.fairviewmicrowave.com/bandpass-cavity-filter-2.4-2.5-ghz-with-sma-female-connectors-sf24251-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



STANDARD TOLERANCES	
.X	±0.2
.XX	±0.1
.XXX	±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].			
TITLE Bandpass Cavity Filter Operating From 2.4 GHz to 2.5 GHz With SMA Female Connectors	DWG NO SF24251	CAGE CODE 3FKR5			
CAD FILE 032816	SHEET	SCALE N/A	SIZE A	3045	