

Bandpass Cavity Filter Operating From 17.7 GHz to 21.2 GHz With SMA Female Connectors

The SF2394-SMA is a nine section band pass filter that is useful for filtering for VSAT uses. The pass band is 3.5 GHz, or 17.7 to 21.2 GHz. Implementing a Chebyshev design, the filter has excellent rejection of 50 dB minimum at 16 GHz and 24 GHz. It has a maximum insertion loss of 2 dB. The SF2394-SMA has SMA Female connectors.

Electrical Specifications

Description	Min	Typ	Max	Units
Passband Frequency	17.7		21.2	GHz
Impedance		50		Ohms
Insertion Loss			2	dB
Passband VSWR		1.5:1		
Rejection at 16 GHz	50			dB
Rejection at 24 GHz	50			dB
Input Power, CW			5	Watts

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

Mechanical Specifications

Size	
Length	1.44 in [36.58 mm]
Width	0.45 in [11.43 mm]
Height	0.38 in [9.65 mm]
Weight	0.0655 lbs [29.71 g]
Configuration	
Design	Bidirectional Chebyshev
Number of Sections	9
Package Style	Connectorized Module
Connector 1	SMA Female
Connector 2	SMA Female

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:



Features:

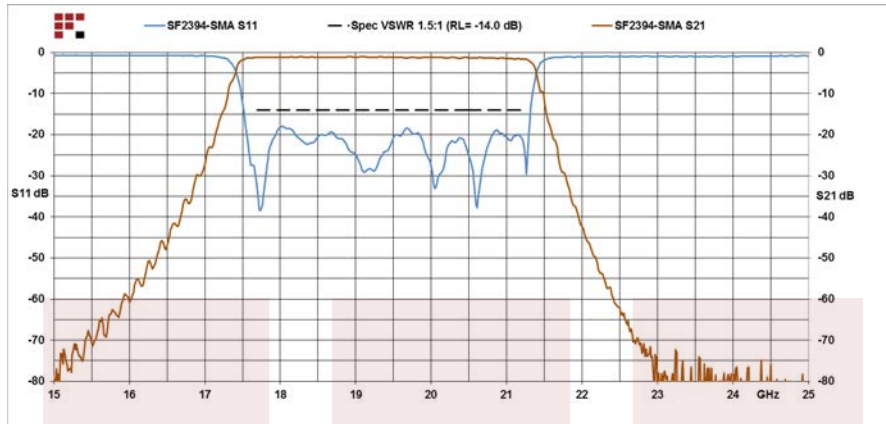
- Pass band of 3.5 GHz
- 17.7 to 21.2 GHz
- Nine section
- Chebyshev filter design
- 50 dB minimum rejection at 16 GHz and 24 GHz
- Maximum insertion loss of 2 dB
- Female SMA connectors

Applications:

- VSAT

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Typical Performance Data

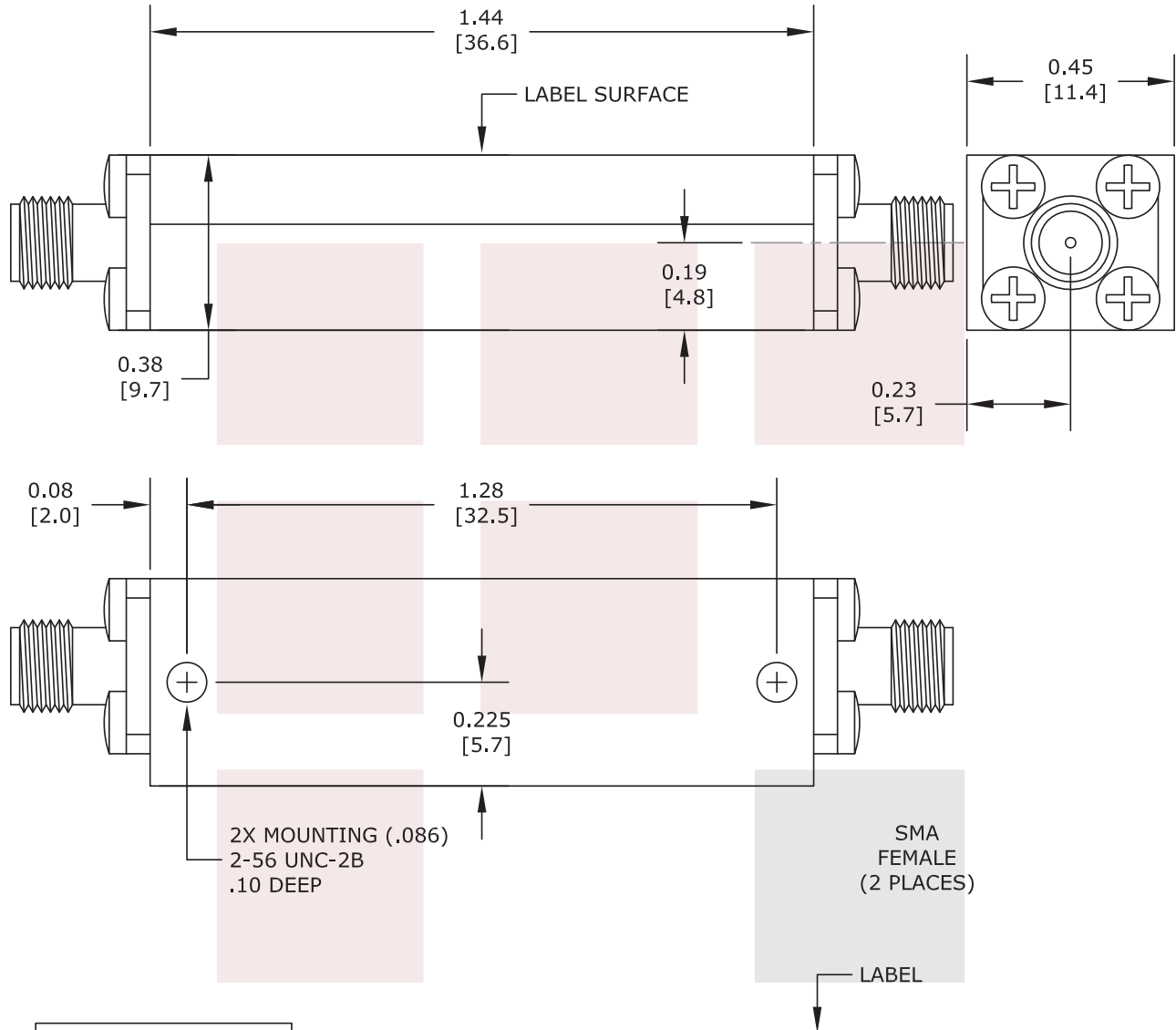


Bandpass Cavity Filter Operating From 17.7 GHz to 21.2 GHz With SMA Female Connectors from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Bandpass Cavity Filter Operating From 17.7 GHz to 21.2 GHz With SMA Female Connectors SF2394-SMA](https://www.fairviewmicrowave.com/bandpass-cavity-filter-17.7-21.2-ghz-with-sma-female-connectors-sf2394-sma-p.aspx)

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STANDARD TOLERANCES	
.X	±0.1
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

FAIRVIEW
MICROWAVE
P/N: SF2394-SMA
17700-21200 MHZ

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 17.7 GHz to 21.2 GHz With SMA Female Connectors		DWG NO SF2394-SMA		CAGE CODE 3FKR5	
CAD FILE	052014	SHEET	SCALE	N/A	SIZE A 3045