

Bandpass Cavity Filter Operating From 1.71 GHz to 1.77 GHz With SMA Female Connectors

The SF17401 is a three section band pass filter that is useful for filtering for WCDMA uses. The pass band is 60 MHz, or 1.71 to 1.77 GHz. Implementing a combline design, the filter has excellent rejection of 55 dB minimum at 1.44 GHz and 2.04 GHz, or about 270 MHz from the band edges. It has a maximum insertion loss of 1.5 dB. The SF17401 has SMA Female connectors.

Electrical Specifications

Description	Min	Typ	Max	Units
Passband Frequency	1.71		1.77	GHz
Impedance		50		Ohms
Insertion Loss			1.5	dB
Passband VSWR		1.5:1		
Rejection at 1.44 GHz	55			dB
Rejection at 2.04 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	1.4 in [35.56 mm]
Height	0.53 in [13.46 mm]
Weight	0.135 lbs [61.23 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:

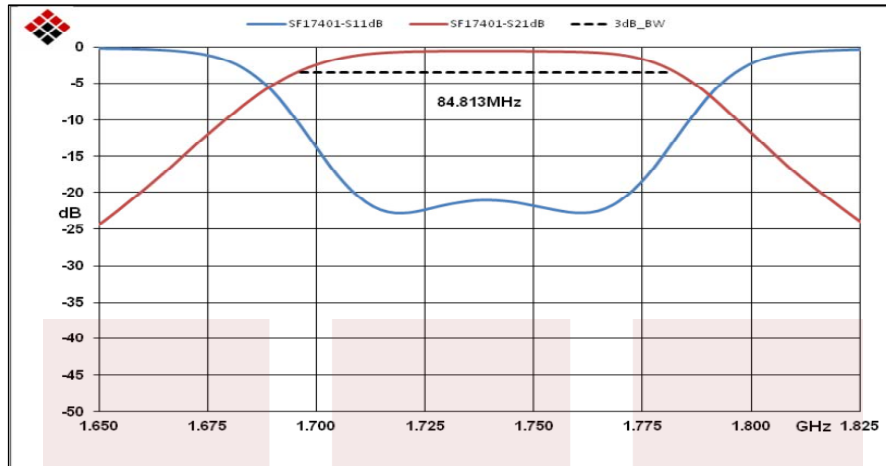
- Pass band of 60 MHz
- 1.71 to 1.77 GHz
- Three section
- Comblin filter design
- 55 dB minimum rejection at 1.44 GHz and 2.04 GHz (about 270 MHz from band edge)
- Maximum insertion loss of 1.5 dB
- Female SMA connectors

Applications:

- WCDMA

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Typical Performance Data

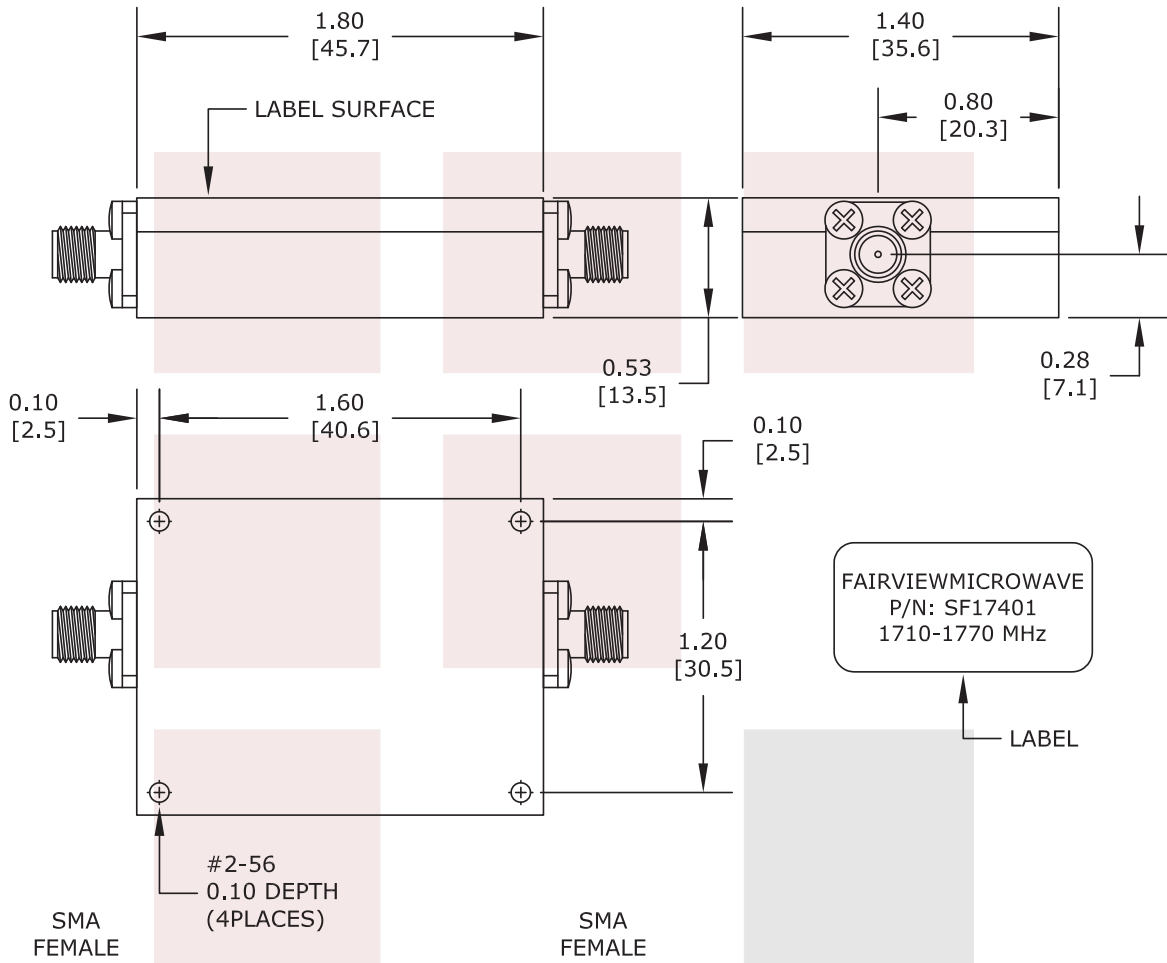


Bandpass Cavity Filter Operating From 1.71 GHz to 1.77 GHz With SMA Female Connectors from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Bandpass Cavity Filter Operating From 1.71 GHz to 1.77 GHz With SMA Female Connectors SF17401](#)

URL: <http://www.fairviewmicrowave.com/bandpass-cavity-filter-1.71-1.77-ghz-with-sma-female-connectors-sf17401-p.aspx>

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

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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TITLE Bandpass Cavity Filter Operating From 1.71 GHz to 1.77 GHz With SMA Female Connectors		DWG NO SF17401		CAGE CODE 3FKR5	
CAD FILE	032816	SHEET	SCALE	N/A	SIZE A 3045