

Bandpass Cavity Filter Operating From 1.85 GHz to 1.91 GHz With SMA Female Connectors

The SF18801 is a three section band pass filter that is useful for filtering for WCDMA uses. The pass band is 60 MHz, or 1.85 to 1.91 GHz. Implementing a combline design, the filter has excellent rejection of 55 dB minimum at 1.58 GHz and 2.18 GHz, or about 270 MHz from the band edges. It has a maximum insertion loss of 1.5 dB. The SF18801 has SMA Female connectors.

Electrical Specifications

Description	Min	Typ	Max	Units
Passband Frequency	1.85		1.91	GHz
Impedance		50		Ohms
Insertion Loss			1.5	dB
Passband VSWR		1.5:1		
Rejection at 1.58 GHz	55			dB
Rejection at 2.18 GHz	55			dB
Input Power, CW			5	Watts

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

Mechanical Specifications

Size		
Length		2 in [50.8 mm]
Width		1.32 in [33.53 mm]
Height		0.53 in [13.46 mm]
Weight		0.13 lbs [58.97 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:

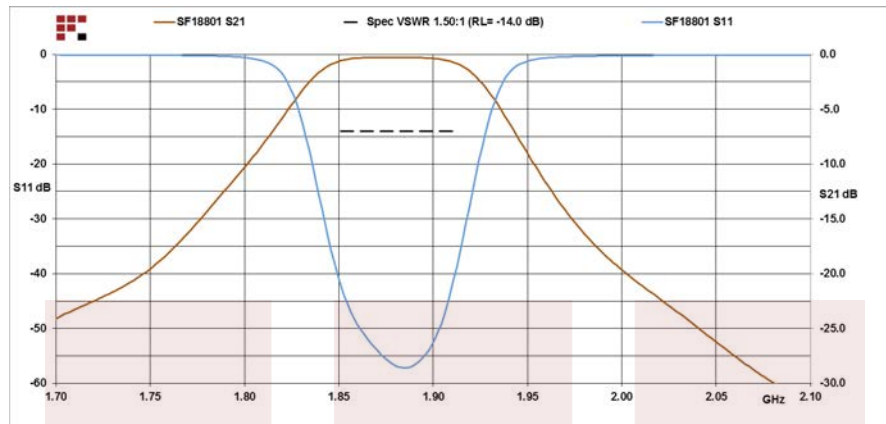
- Pass band of 60 MHz
- 1.85 to 1.91 GHz
- Three section
- Comblin filter design
- 55 dB minimum rejection at 1.58 GHz and 2.18 GHz (about 270 MHz from band edge)
- Maximum insertion loss of 1.5 dB
- Female SMA connectors

Applications:

- WCDMA

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

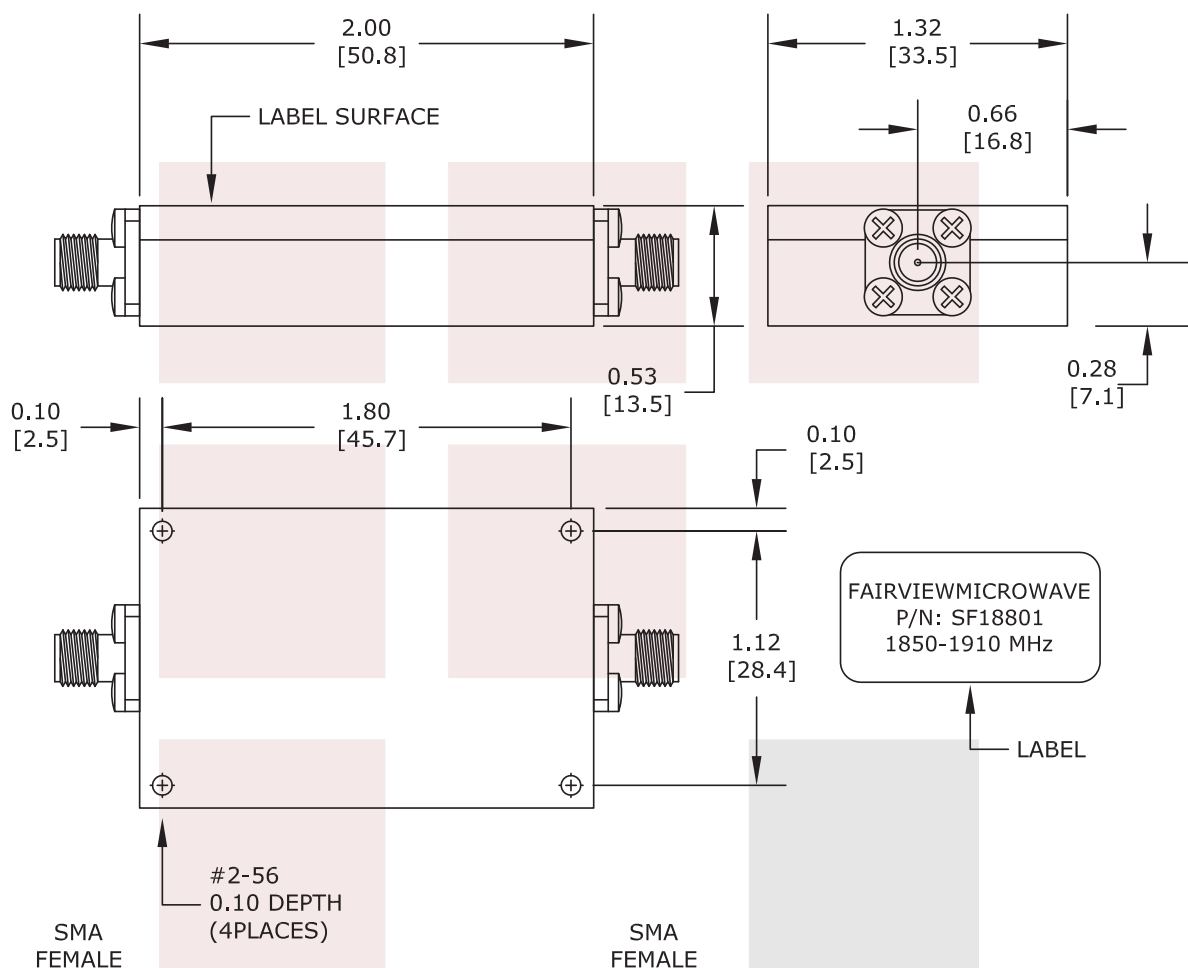


Bandpass Cavity Filter Operating From 1.85 GHz to 1.91 GHz With SMA Female Connectors from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Bandpass Cavity Filter Operating From 1.85 GHz to 1.91 GHz With SMA Female Connectors SF18801](http://www.fairviewmicrowave.com/bandpass-cavity-filter-1.85-1.91-ghz-with-sma-female-connectors-sf18801-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

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
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DWG NO	SF18801	CAGE CODE	3FKR5
CAD FILE	032816	SHEET	SCALE N/A SIZE A 3045