

**Bandpass Cavity Filter Operating From 1.565 GHz to 1.585 GHz With SMA Female Connectors**

The FMFL003 is a four section band pass filter that is useful for filtering for GPS L1 uses. The pass band is 20 MHz, or 1.565 to 1.585 GHz. Implementing a combline design, the filter has excellent rejection of 50 dB at 1.475 GHz and 1.675 GHz, or about 90 MHz from the band edges. It has a typical insertion loss of 1.5 dB. The FMFL003 has SMA female connectors.

**Electrical Specifications**

Description	Min	Typ	Max	Units
Passband Frequency	1.565		1.585	GHz
Impedance		50		Ohms
Insertion Loss		1.5	1.5	dB
Passband VSWR		1.5:1		
Rejection at 1.475 GHz	50			dB
Rejection at 1.675 GHz	50			dB
Input Power, CW			5	Watts

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

**Mechanical Specifications**

Size	
Length	1.55 in [39.37 mm]
Width	2.25 in [57.15 mm]
Height	0.53 in [13.46 mm]
Weight	0.152 lbs [68.95 g]
Configuration	
Design	Combine
Number of Sections	4
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:**

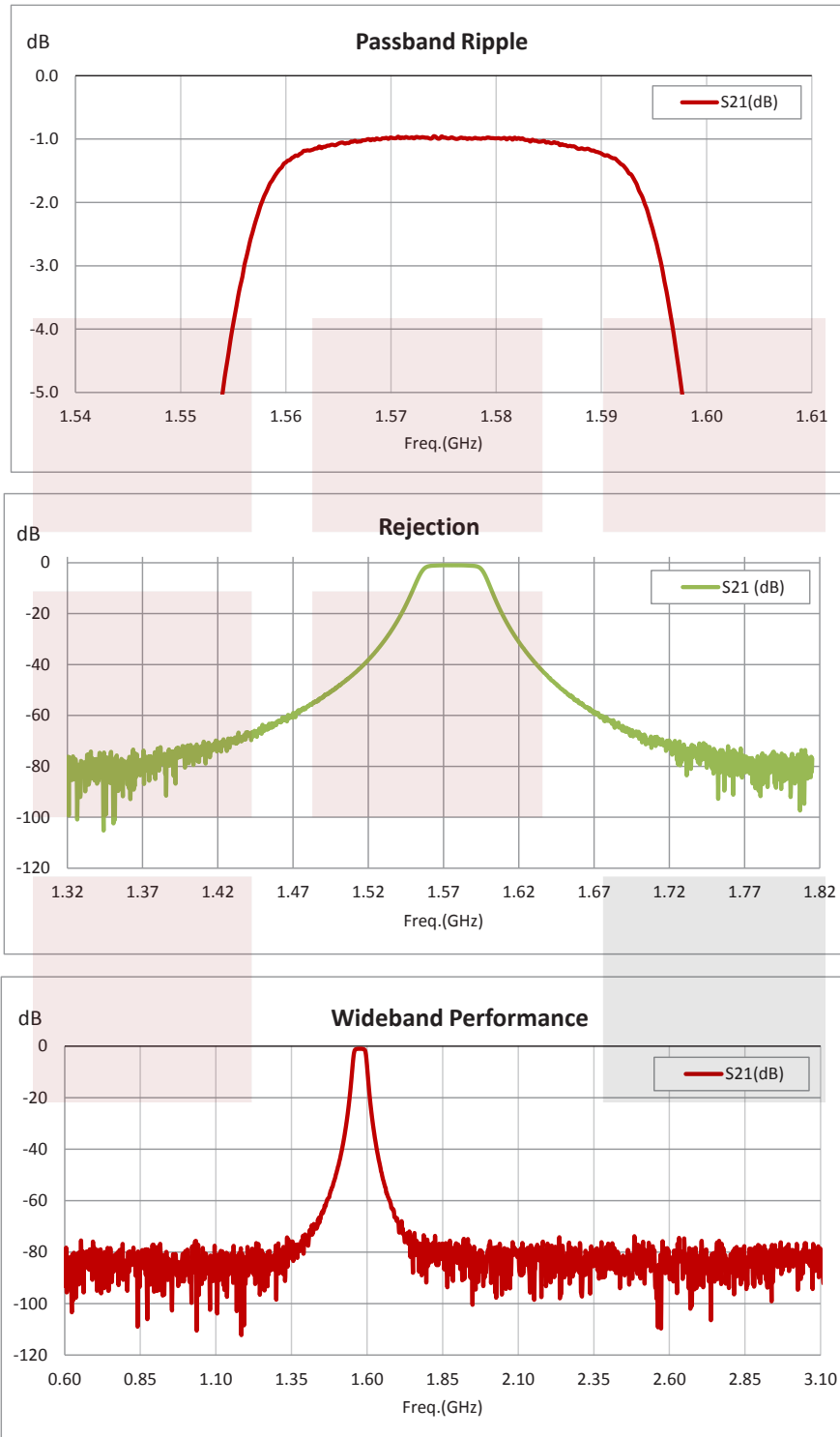
- Pass band of 20 MHz
- 1.565 GHz to 1.585 GHz
- Four section
- Combine filter design
- 50 dB rejection at 1.475 GHz and 1.675 GHz (about 90 MHz from band edge)
- Typical insertion loss of 1.5 dB
- Female SMA connectors

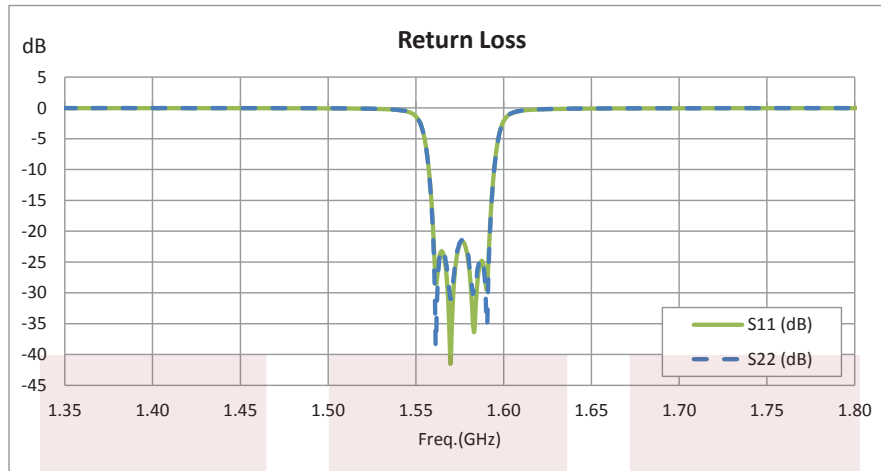
**Applications:**

- GPS L1

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**Typical Performance Data**



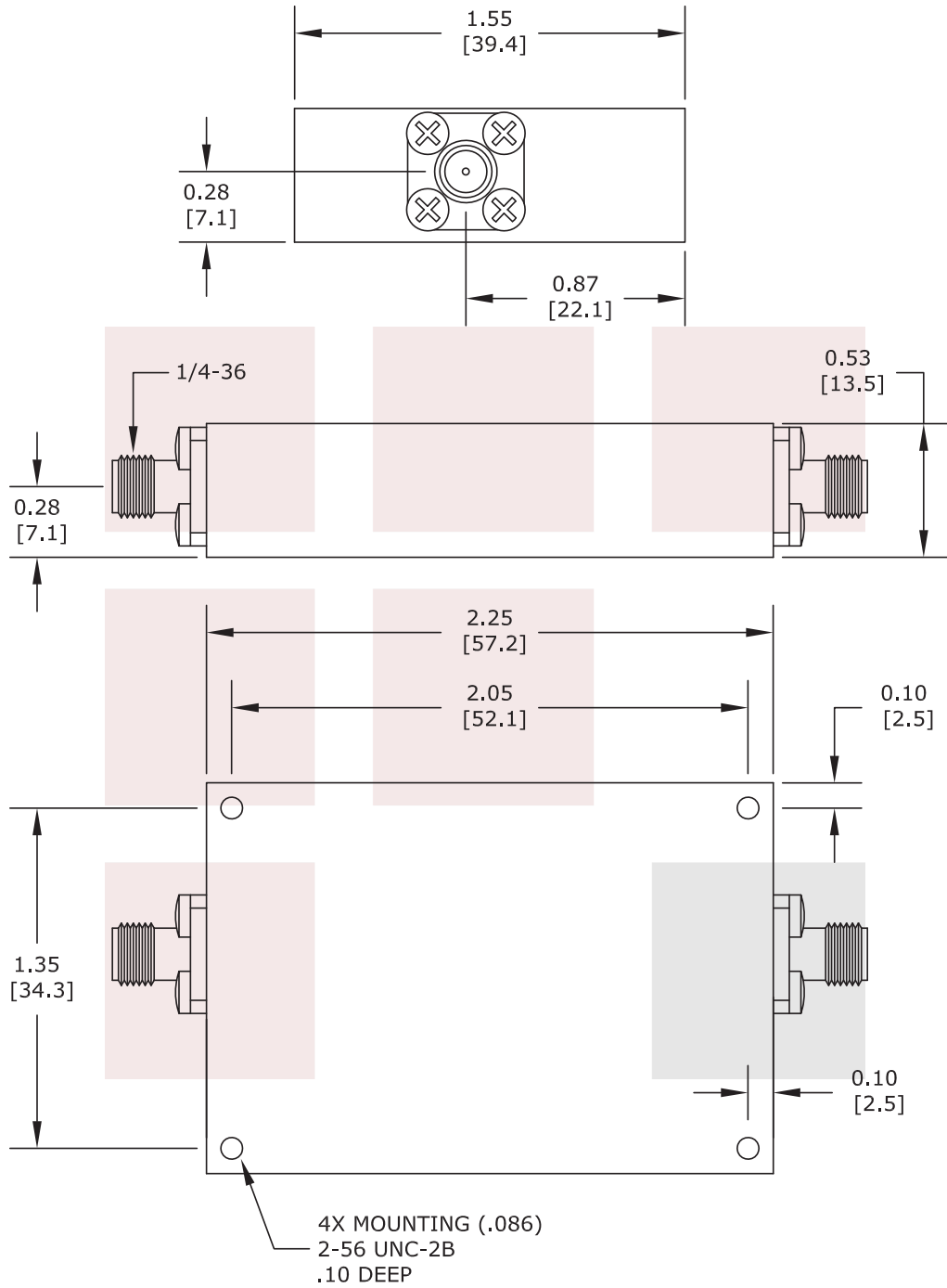


Bandpass Cavity Filter Operating From 1.565 GHz to 1.585 GHz With SMA Female Connectors from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Bandpass Cavity Filter Operating From 1.565 GHz to 1.585 GHz With SMA Female Connectors FMFL003](#)

URL: <https://www.fairviewmicrowave.com/bandpass-cavity-filter-1.565-1.585-ghz-sma-female-connectors-fmfl003-p.aspx>

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TITLE Bandpass Cavity Filter Operating From 1.565 GHz to 1.585 GHz With SMA Female Connectors		DWG NO FMFL003		CAGE CODE 3FKR5	
CAD FILE	042617	SHEET		SCALE	N/A
		SIZE	A	2233	