

# L1FM Passive Filter

## Technical Product Data

### Features

- **Low Insertion Loss**  
IL < 2.2dB
- **Excellent Out of Band Rejection**
- **Passes DC for Active Antennas**
- **High Rejection Option Available**



### Description

Designed with the thin link margins of satellite navigation systems in mind, the L1FM is a single input L1 Band Passive Filter that passes only the L1 GPS frequency. The device features excellent side band rejection with an insertion loss of less than 2.2dB. The product may pass DC or can also be used as a DC block.

The L1FM Passive Filter comes with various options to meet your specific needs. Please call, fax, email ([sales@gpssource.com](mailto:sales@gpssource.com)), or visit our website ([www.gpssource.com](http://www.gpssource.com)) for further information on product options & specifications.

### Electrical Specifications, Operating Temperature -40 to 85<sup>o</sup>C

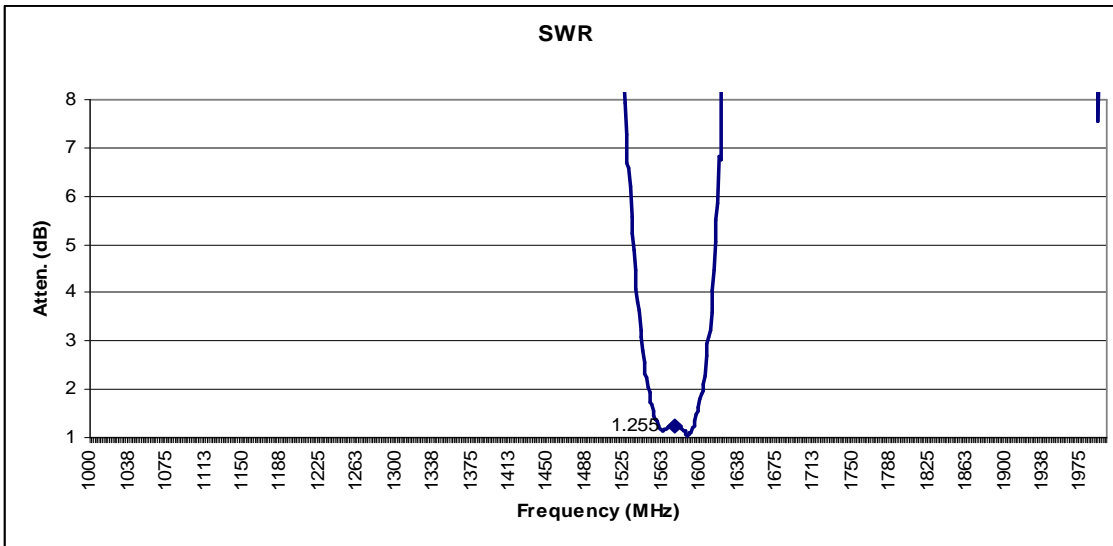
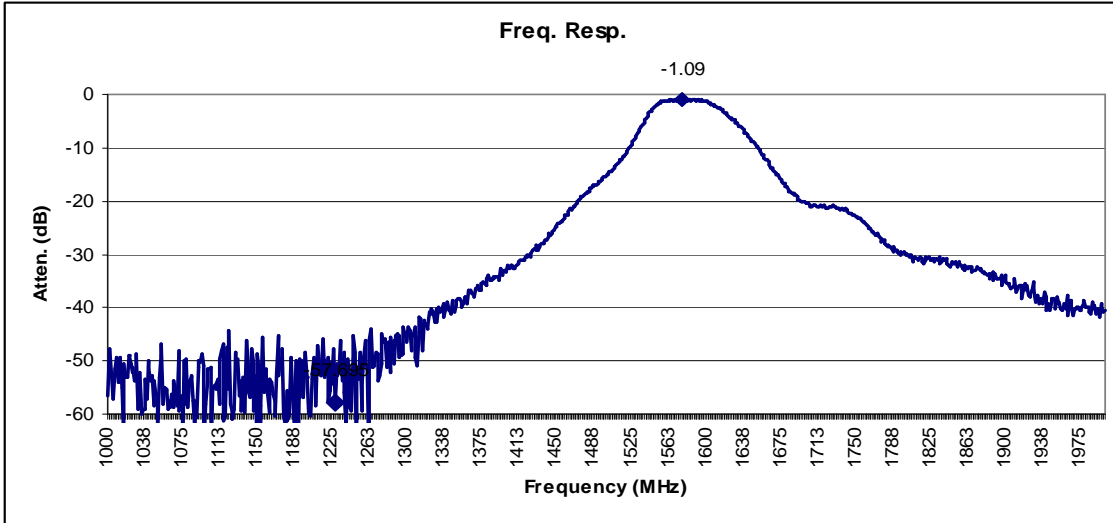
Parameter	Conditions	Min	Typ	Max	Units
Freq. Range: 1575.4MHz	IN – OUT, IN/OUT-50Ω	1.540		1.625	GHz
Freq. Range: (High Reject. Opt.) 1575.4MHz	IN – OUT, IN/OUT-50Ω	1.565		1.585	GHz
In/Out Imped.	IN, OUT		50		Ω
Insertion Loss 1575MHz	IN – OUT, IN/OU-50Ω	1.0	1.5	2.2	dB
Insertion Loss (High Reject. Opt.) 1575MHz	IN – OUT, IN/OU-50Ω	3.0	3.7	4.2	dB
Rejection <sup>(1)</sup> 1575MHz	IN – OUT, IN/OUT-50Ω; + 100MHz - 100MHz + 150MHz - 150MHz	-13 -18 -18 -25			dB
Rejection <sup>(1)</sup> (High Reject. Opt.) 1575MHz	IN – OUT, IN/OUT-50Ω; + 50Mhz - 50MHz + 100MHz - 100MHz	-35 -25 -37 -37			dB
Input SWR	OUT Port - 50Ω			2.0:1	-
Output SWR	IN Port - 50Ω			2.0:1	-
DC IN	DC Input on OUT port			16	VDC
Ant/Thru Current	DC Input on OUT port			250	mA
Max RF Input	Max RF input without damage			30	dBm

**NOTES:**

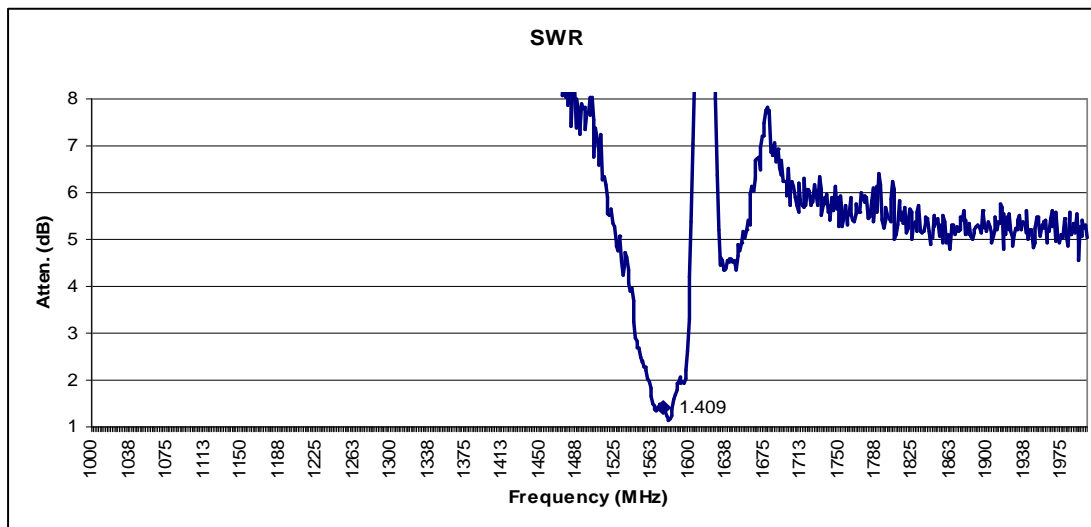
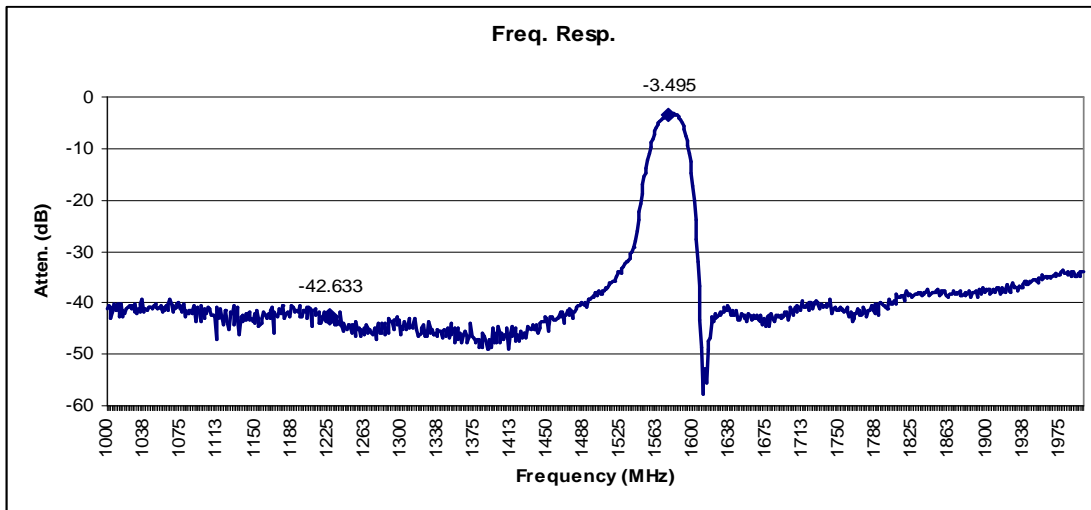
(1). Attenuation Relative to pass band.

**Performance Data:**

**L1FM Passive Filter**



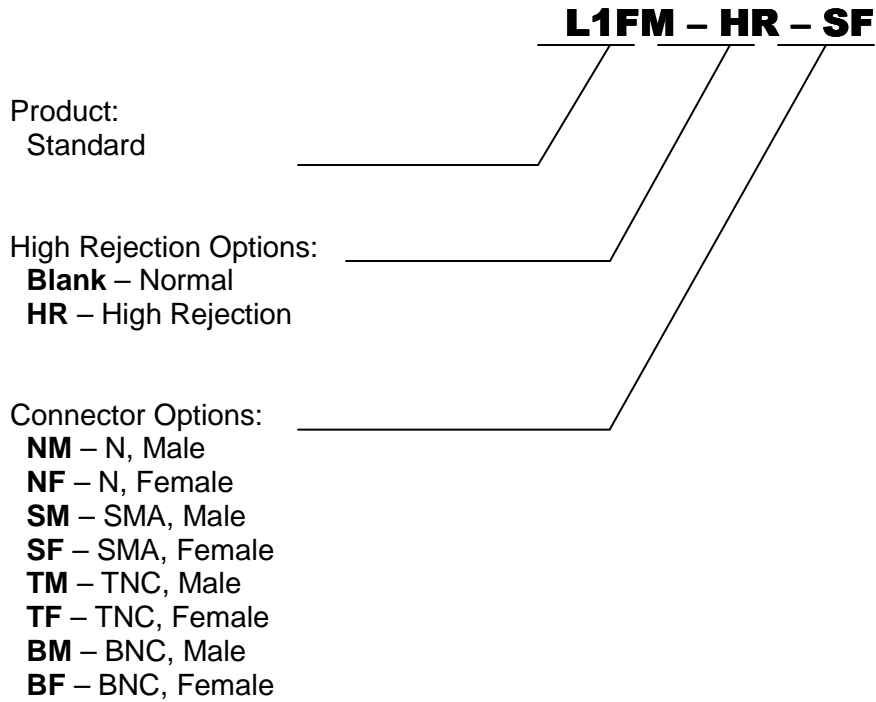
### L1FM Passive Filter (High Rejection Option)





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