

## L1F Passive Filter

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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 L1F 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.



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

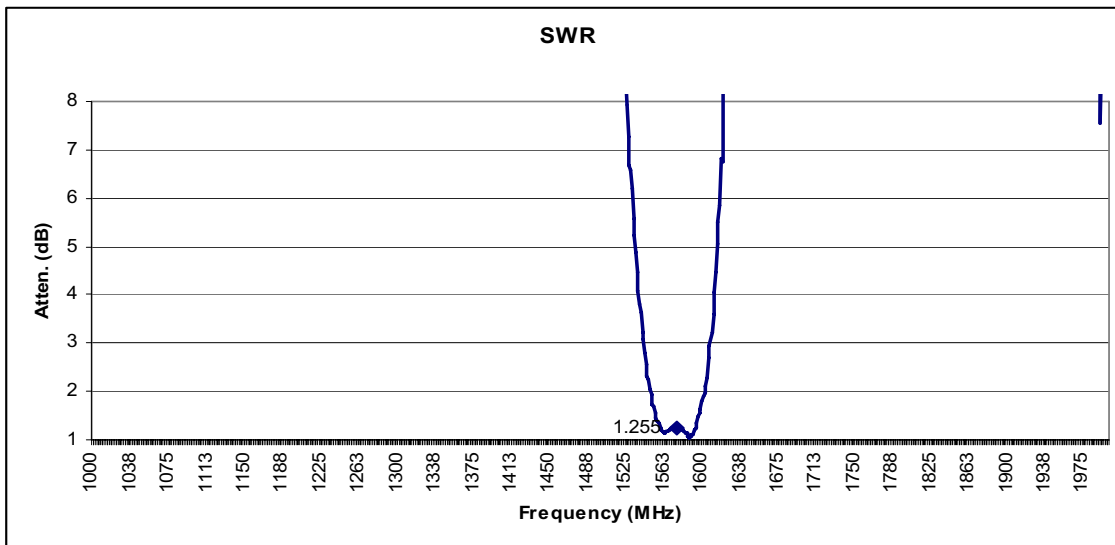
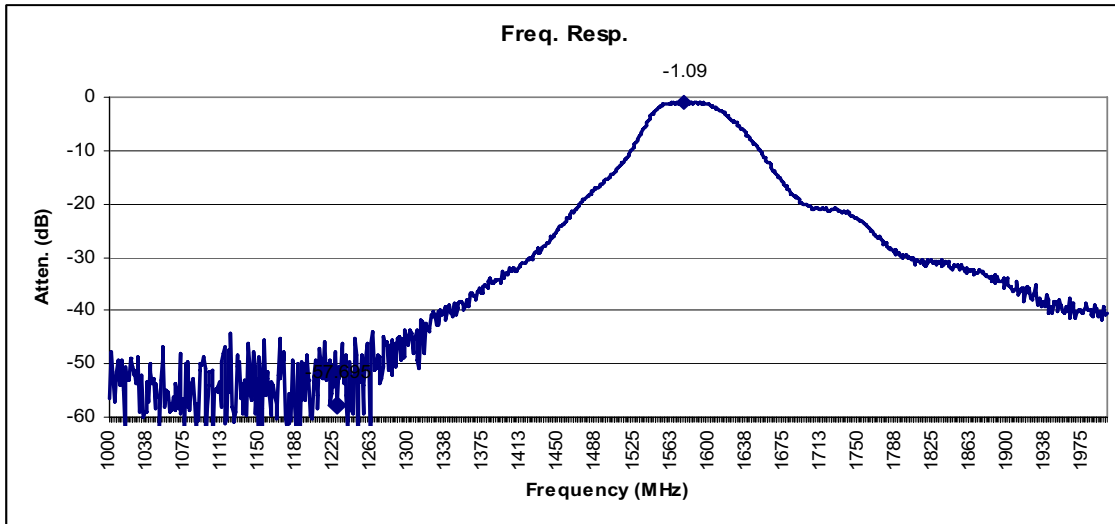
Parameter	Conditions	Min	Typ	Max	Units
Freq. Range: 1575.4MHz	IN – OUT, IN/OUT-50Ω	1.540		1.625	GHz
Freq. Range: (High Reject. Opt.) 1575.4MHz	IN – OUT, IN/OUT-50Ω	1.565		1.585	GHz
In/Out Imped.	IN, OUT		50		Ω
Insertion Loss 1575MHz	IN – OUT, IN/OU-50Ω	1.0	1.5	2.2	dB
Insertion Loss (High Reject. Opt.) 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:**

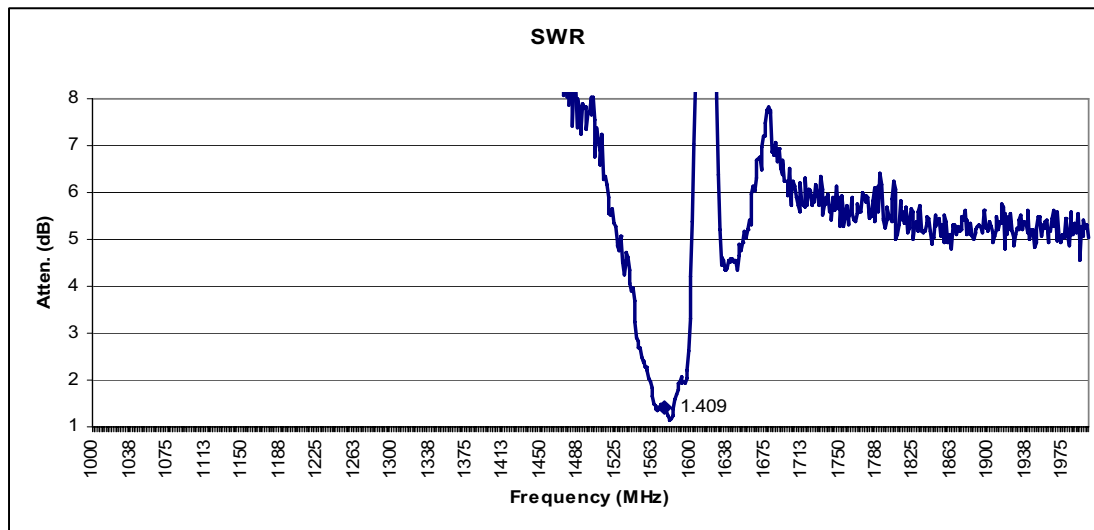
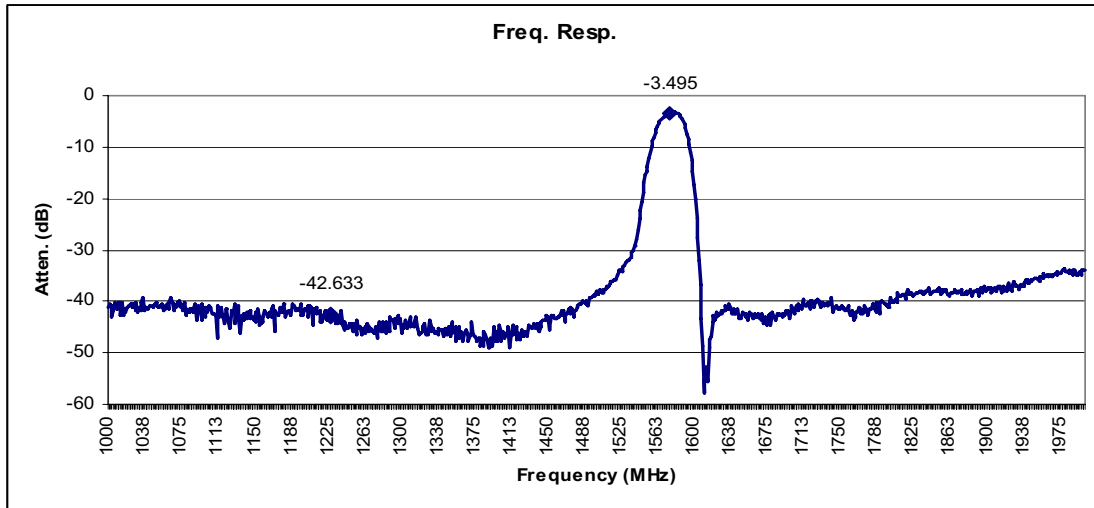
(1). Attenuation Relative to pass band.

**Performance Data:**

**L1F Passive Filter**



**L1F Passive Filter (High Rejection Option)**





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**Part Number:**

**L1F - HR - SF**

Product:  
Standard

High Rejection Options:  
**Blank** – Normal  
**HR** – High Rejection

Connector Options:  
**NM** – N, Male  
**NF** – N, Female  
**SM** – SMA, Male  
**SF** – SMA, Female  
**TM** – TNC, Male  
**TF** – TNC, Female  
**BM** – BNC, Male  
**BF** – BNC, Female  
**SB** – SMB Jack, Female  
**SC** – SMC Jack, Female  
**MX** – MCX Jack, Female