

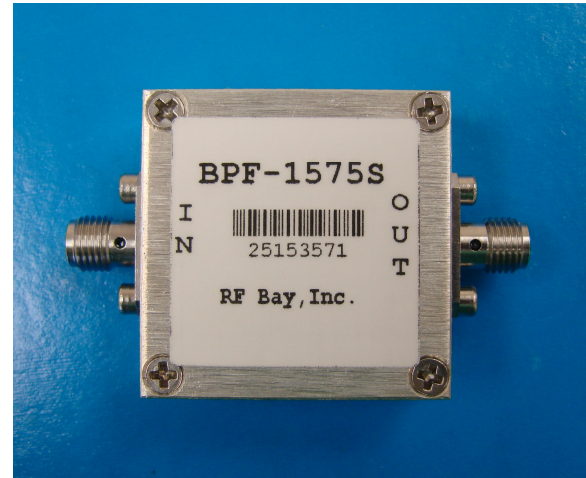
**BPF Series**

**1575.42MHz GPS L1 Band Pass Filter**

**Features**

- Center Frequency: 1575.42MHz
- Bandwidth: 20MHz
- Insertion Loss: 1.8dB
- Input/Output Impedance: 50Ω
- Maximum Input Power: +20dBm
- SAW Technology
- SMA Connector

**Picture**



**Description**

BPF-1575S is a 1565-1585MHz SAW Band Pass Filter for 1575.42MHz GPS L1 Band application.

**Electrical Specifications @ +25 °C,  $Z_S = Z_L = 50 \Omega$**

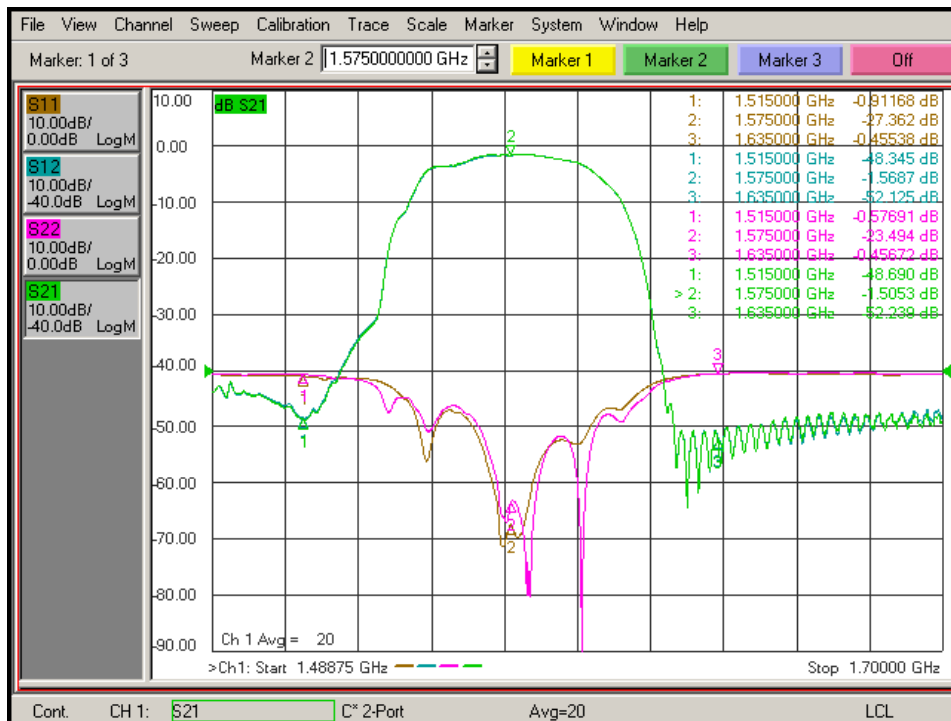
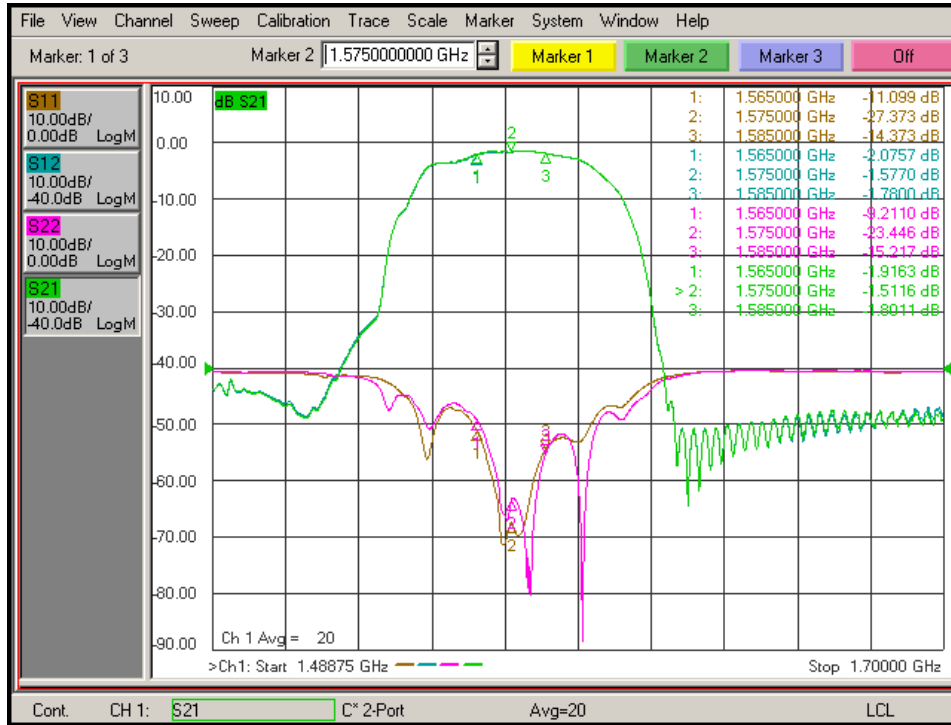
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	1565		1585
Center Frequency	MHz		1575.42	
Insertion Loss	dB		1.8	2.5
Rejection at 1515MHz	dB		45	
Rejection at 1635MHz	dB		50	
Maximum Input Power	dBm			+20
Maximum Input DC Voltage	V			0
Input/output impedance	Ω		50	
Group Delay	ns		20	
Group Delay Ripple	ns		±2.5	
VSWR Input VSWR Output VSWR			1:1.1 1:1.1	
Size (excluding SMA connectors)	inch	1.25" x 1.25" x 0.56"		
Weight	oz	1.5		

Note: Input and output ports are interchangeable

**BPF Series**

**1575.42MHz GPS L1 Band Pass Filter**

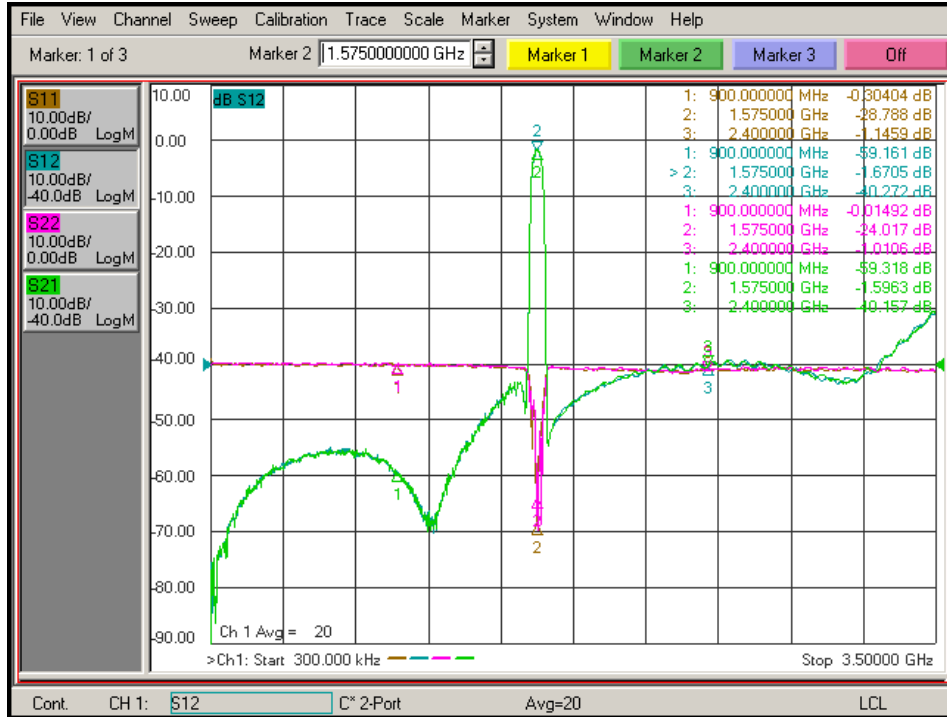
**Insertion Loss and Rejection:**



**BPF Series**

**1575.42MHz GPS L1 Band Pass Filter**

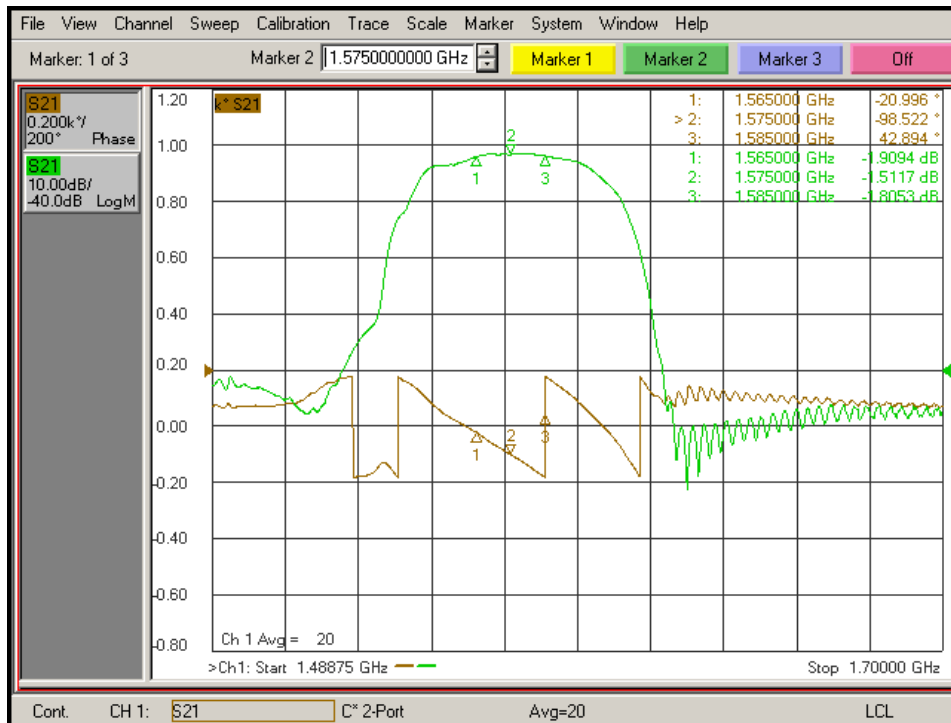
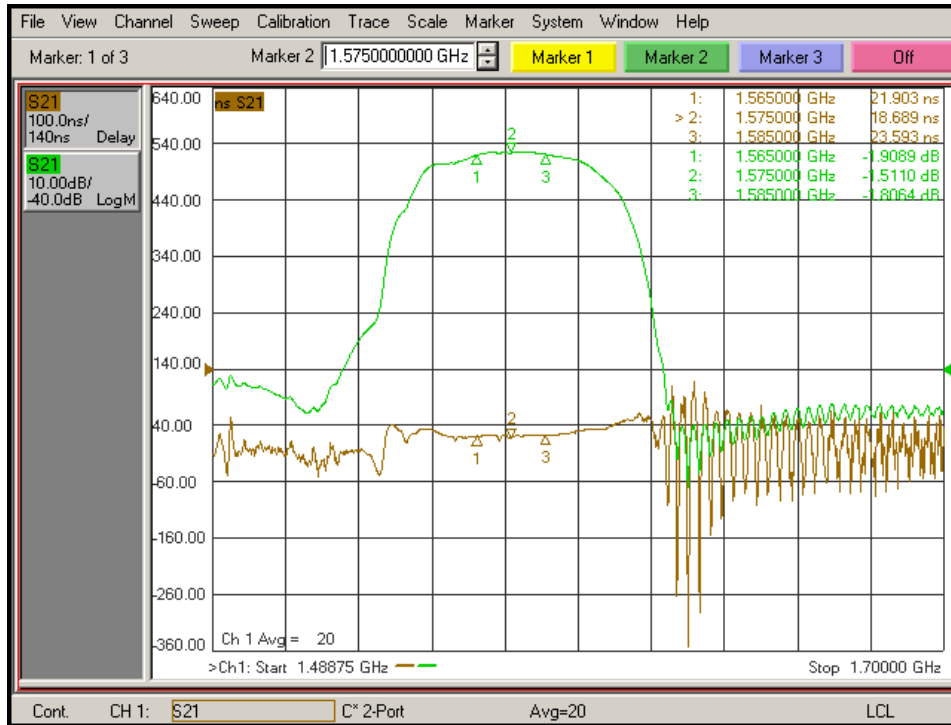
**Insertion Loss and Rejection:**



**BPF Series**

**1575.42MHz GPS L1 Band Pass Filter**

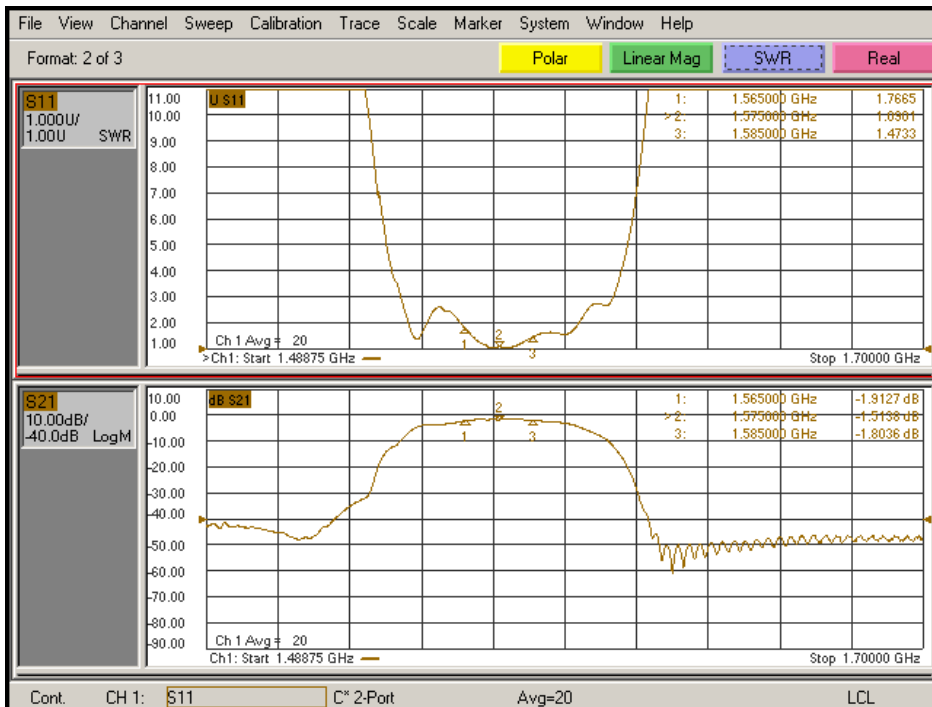
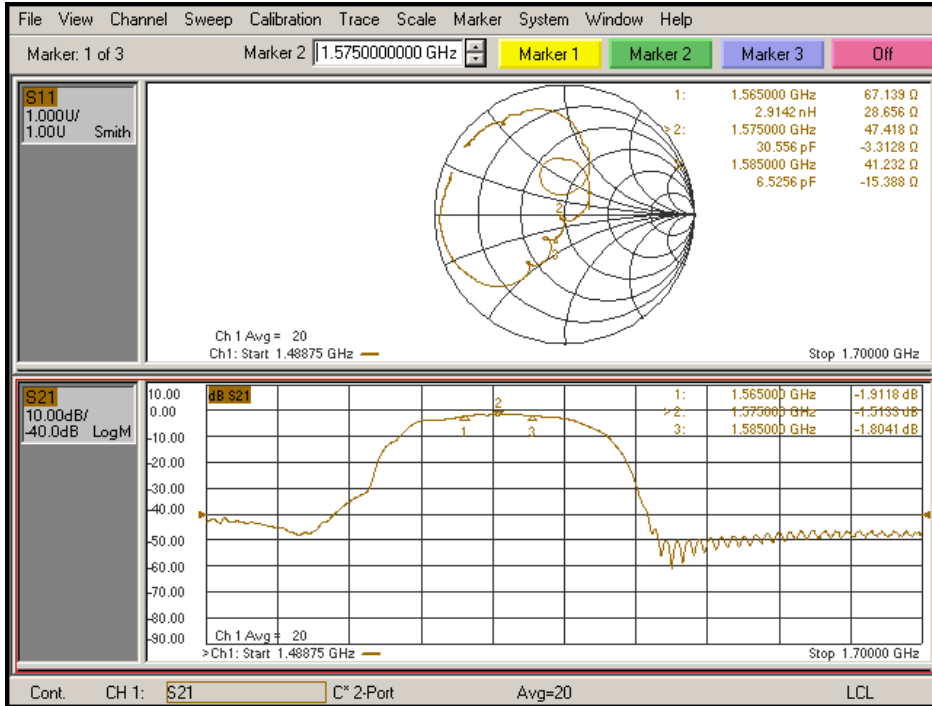
**Delay and Phase:**



**BPF Series**

**1575.42MHz GPS L1 Band Pass Filter**

**Smith Chart and VSWR:**



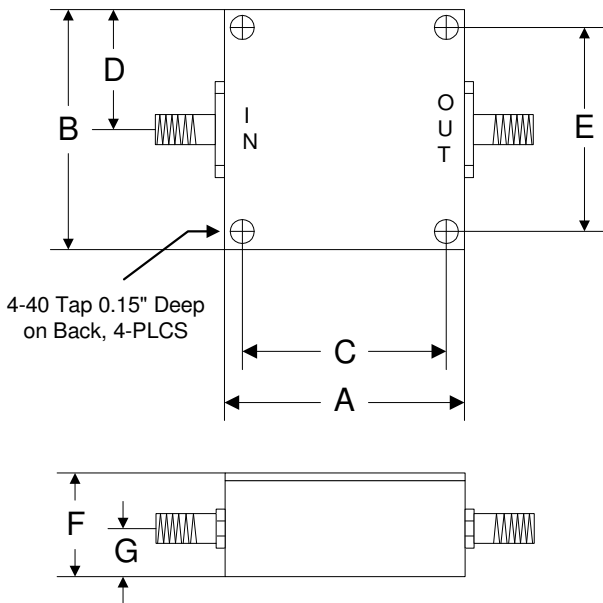
**BPF Series**

**1575.42MHz GPS L1 Band Pass Filter**

**Absolute Maximum Ratings**

Parameter	Absolute Maximum
RF Input Power	+20dBm
DC Input Voltage	0V
Operating Temperature	-30 °C to +85 °C
Storage Temperature	-40 °C to +100 °C

**Outline**



	A	B	C	D	E	F	G
<b>Inch</b>	1.250	1.250	1.000	0.625	1.000	0.563	0.250
<b>mm</b>	31.75	31.75	25.40	15.88	25.40	14.29	6.35