

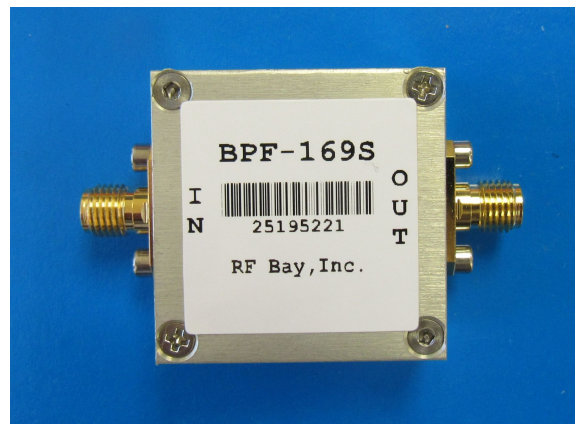
BPF Series

162-176MHz Band Pass Filter

Features

- Center Frequency: 169MHz
- Bandwidth: 14MHz
- Insertion Loss: 20dB
- Input/Output Impedance: 50Ω
- Maximum Input Power: 10mW
- SAW Technology
- Constant Group Delay
- SMA Connector

Picture



Description

BPF-169S is a 162– 176MHz Band Pass Filter for 169MHz application.

Electrical Specifications @ +25 °C, $Z_{IN} = Z_{OUT} = 50 \Omega$

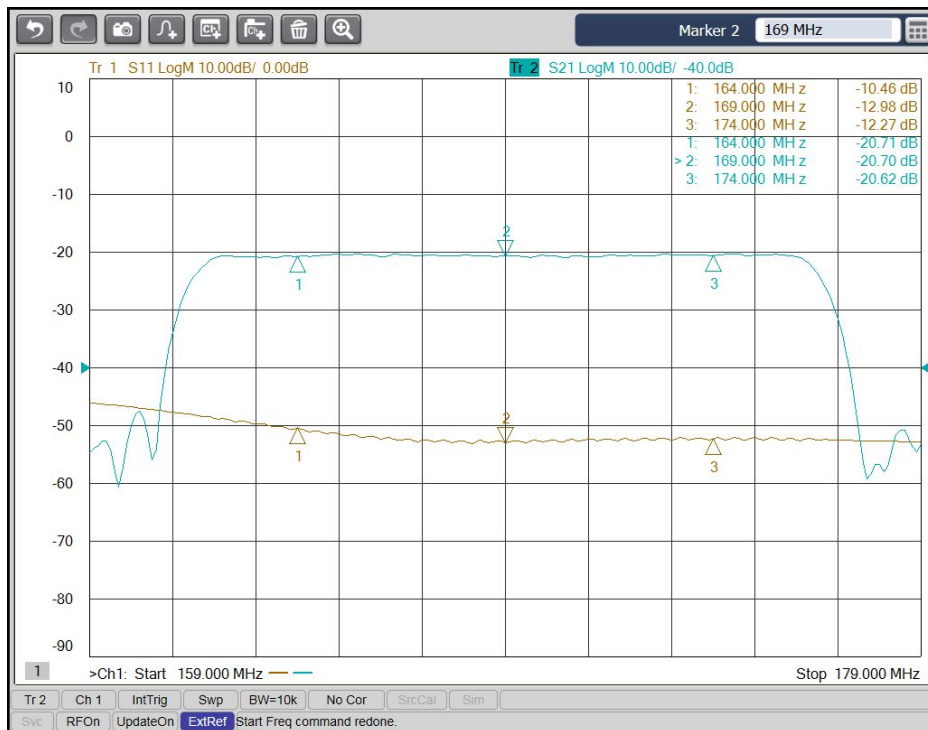
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	162		176
Center Frequency	MHz		169	
Bandwidth	MHz		14	
Insertion Loss	dB		20	22
Amplitude Ripple	dB			±0.5
Rejection at 154MHz	dB	38	40	
Rejection at 184MHz	dB	38	40	
Maximum Input Power	dBm			+10
Input/output impedance	Ω		50	
Group Delay	μs		1.15	
Group Delay Ripple	μs			±0.06
VSWR @ CF	Input VSWR		1.5:1	1.7:1
	Output VSWR		1.5:1	1.7:1
Size (excluding SMA connectors)	inch	1.25" x 1.25" x 0.56"		
Weight	Oz	1.5		

Note: Input and output are interchangeable

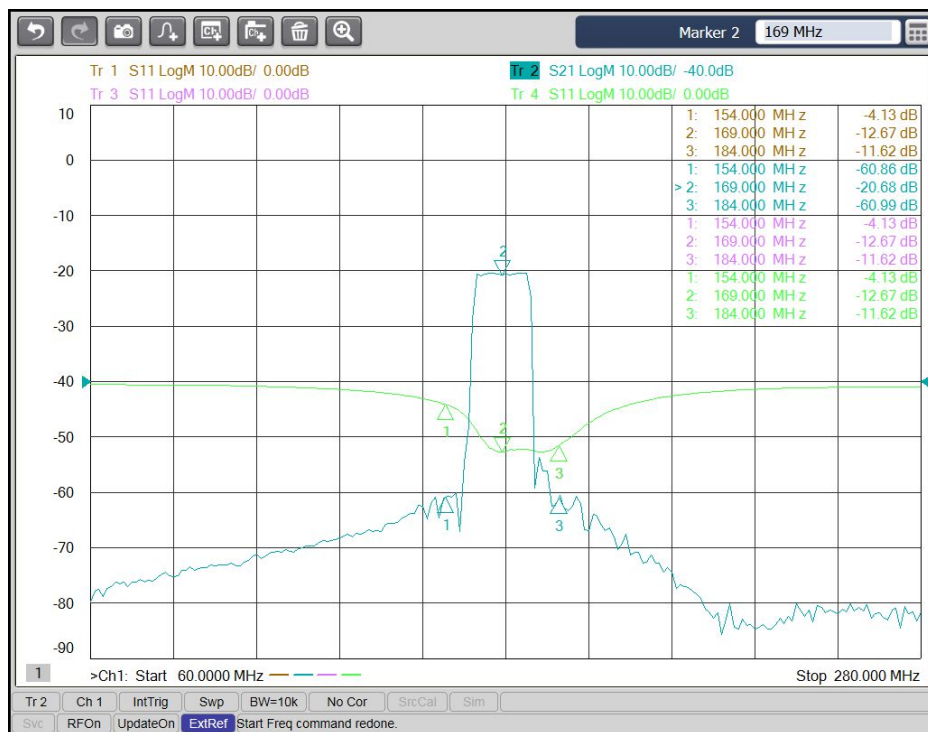
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162-176MHz Band Pass Filter

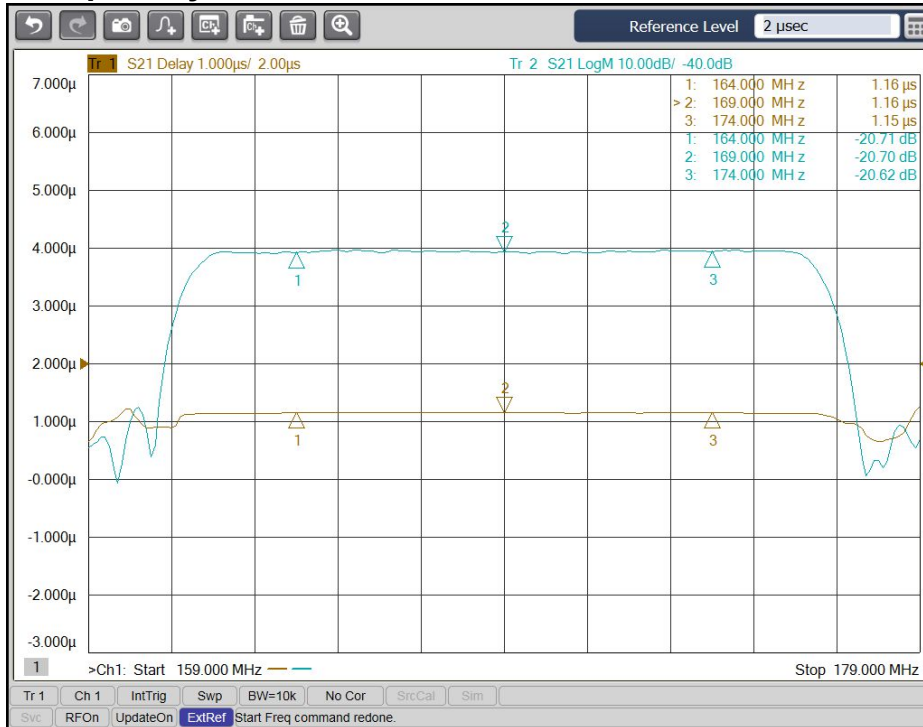
S-Parameter 159-179MHz



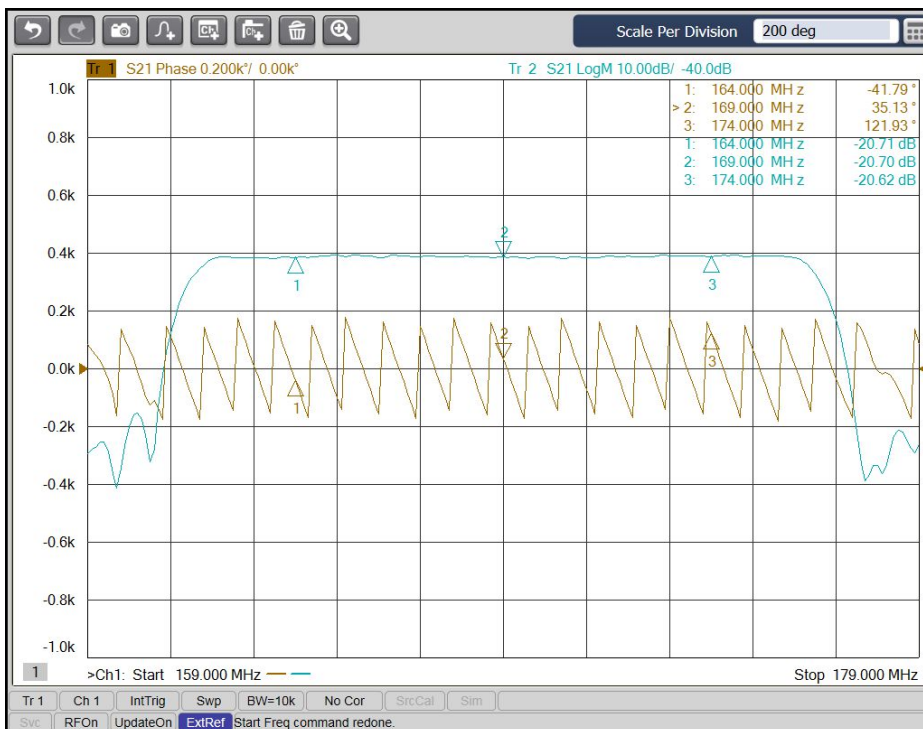
S-Parameter 60-280MHz



Group Delay 164-174MHz



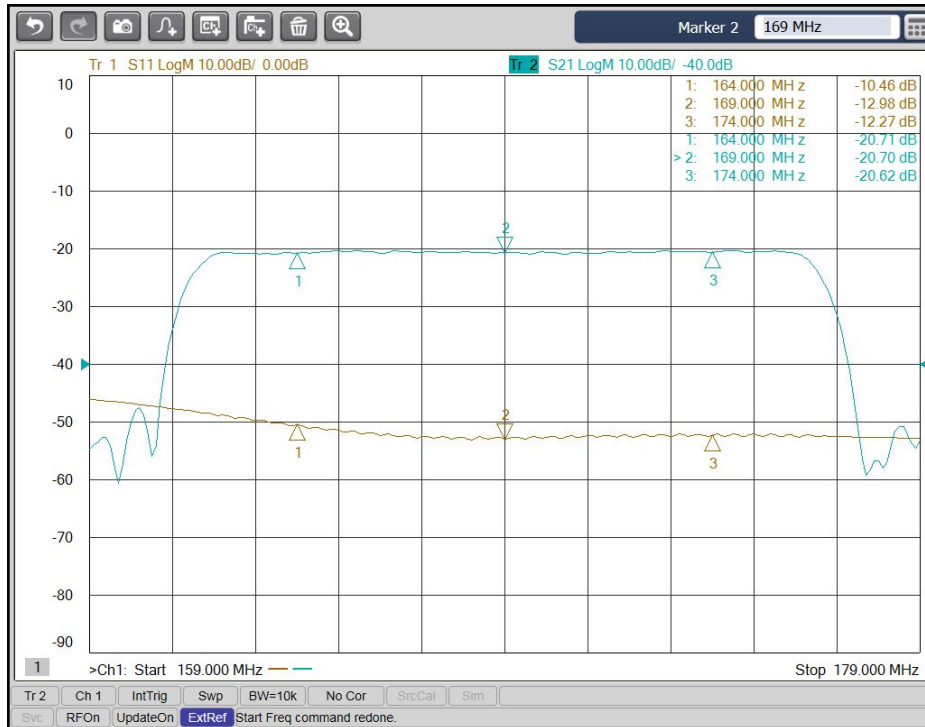
Phase 164-174MHz



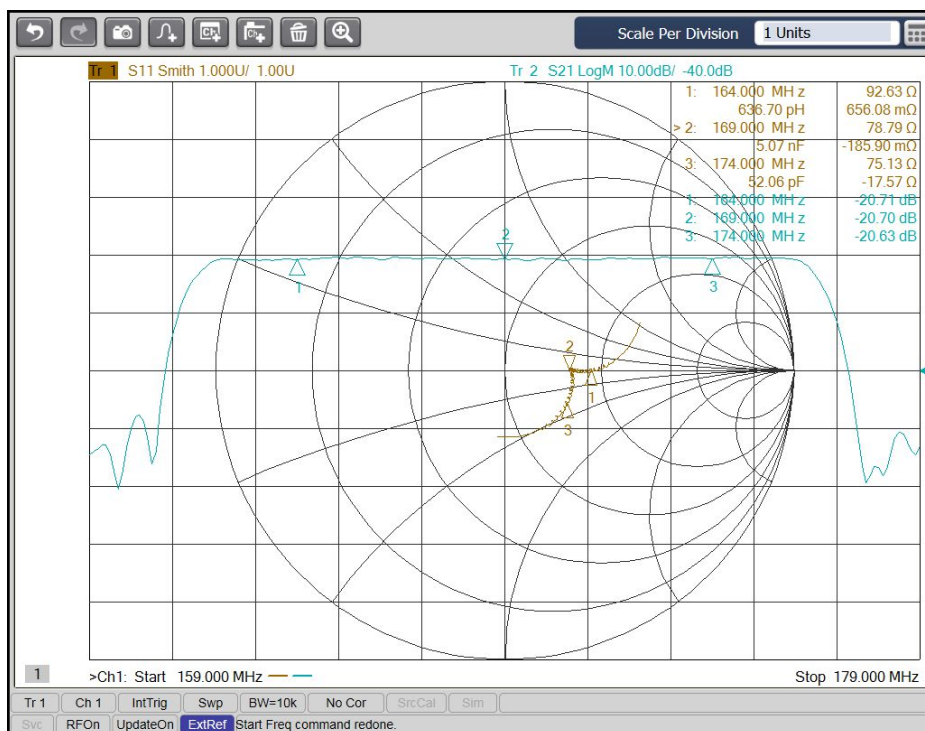
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162-176MHz Band Pass Filter

Insertion Loss and Return Loss 164-174MHz



Smith Chart 164-174MHz



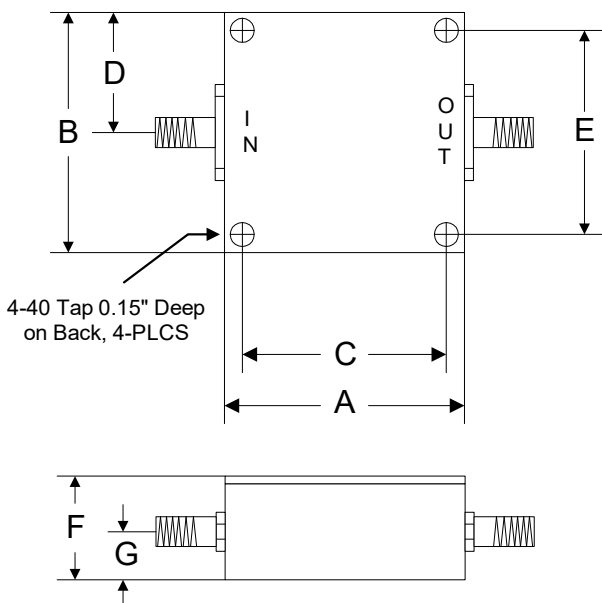
BPF Series

162-176MHz Band Pass Filter

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+10dBm
DC Voltage	5V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-65 °C to +150 °C

Outline



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