

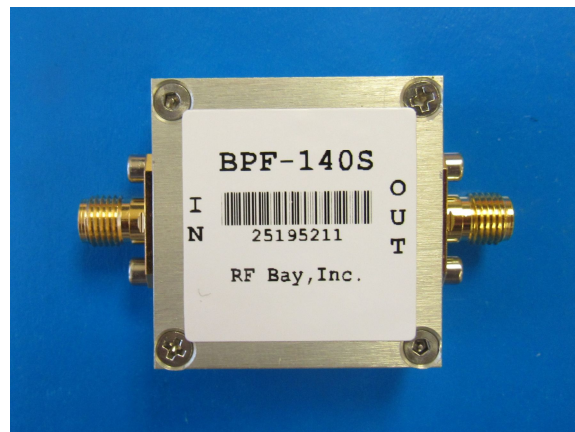
BPF Series

137.5-142.5MHz Band Pass Filter

Features

- Center Frequency: 140MHz
- Bandwidth: 5MHz
- Insertion Loss: 6.5dB
- Input/Output Impedance: 50Ω
- Maximum Input Power: 10mW
- SAW Technology
- Constant Group Delay
- SMA Connector

Picture



Description

BPF-140S is a 137.5 – 142.5MHz Band Pass Filter for 140MHz application.

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

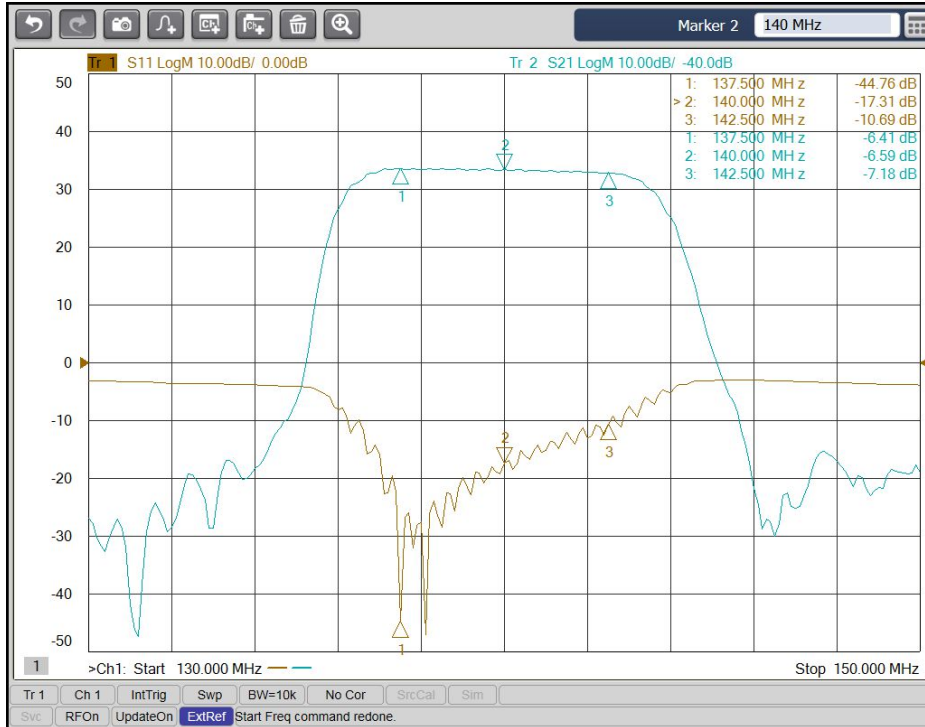
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	137.5		142.5
Center Frequency	MHz		140	
Bandwidth	MHz		5.0	
Insertion Loss	dB		6.5	7.5
Rejection at 130MHz	dB	57	62	
Rejection at 150MHz	dB	47	52	
Maximum Input Power	dBm			+10
Input/output impedance	Ω		50	
Group Delay	μs		1.3	
Group Delay Ripple	μs		±0.05	
VSWR @ CF	Input VSWR		1.4:1	1.7:1
	Output VSWR		1.4:1	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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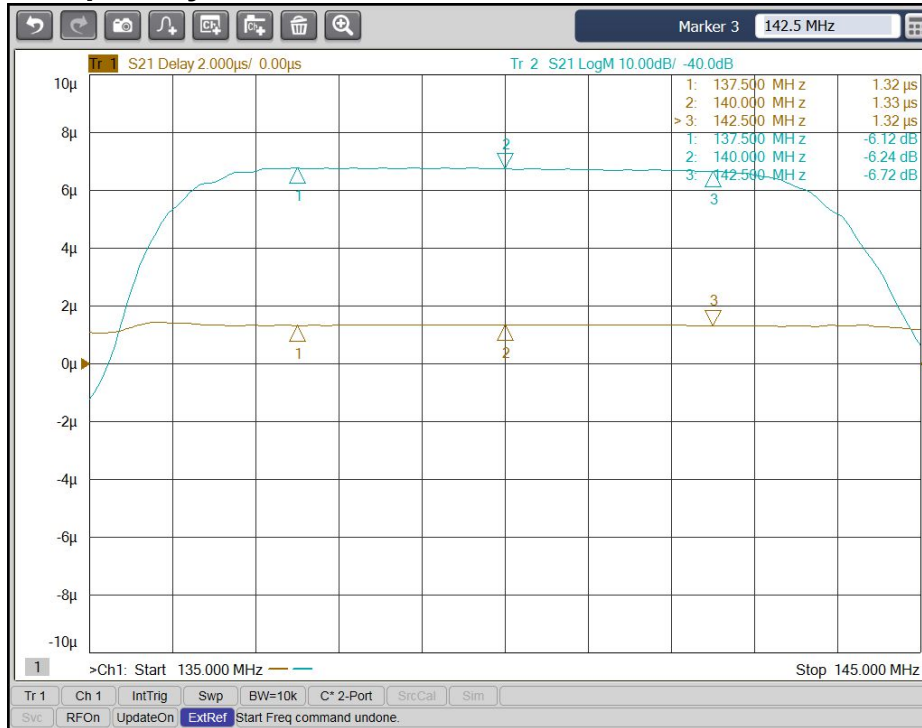
S-Parameter 130-150MHz



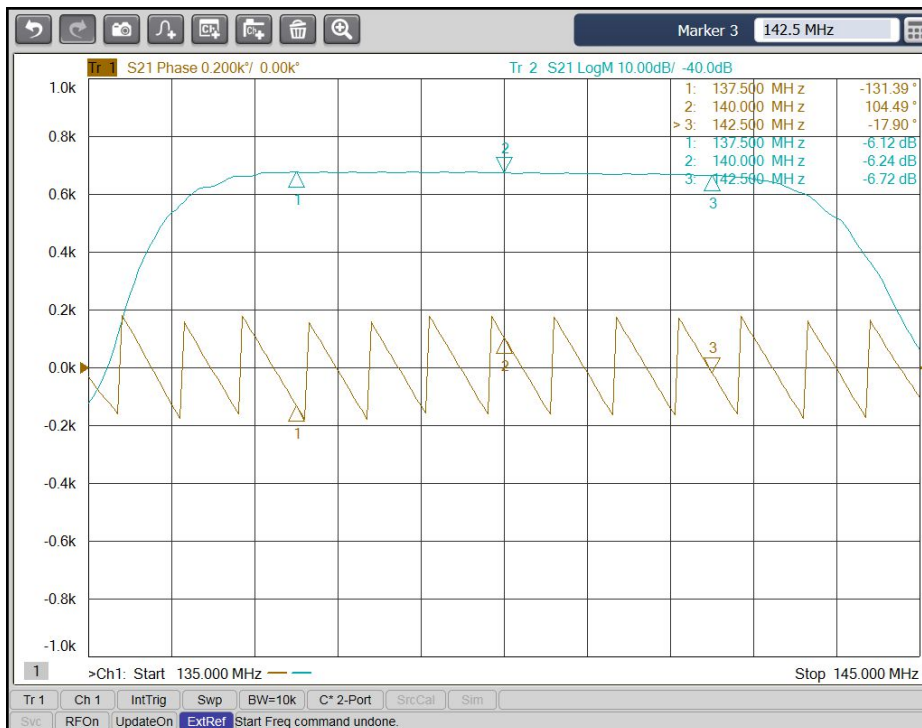
S-Parameter 0.3-280MHz



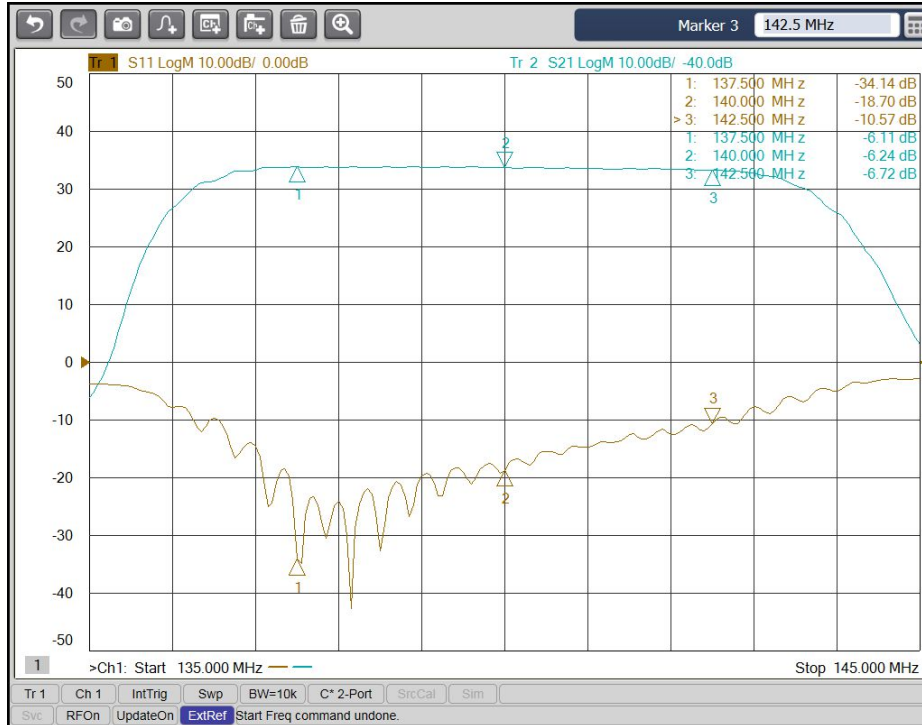
Group Delay 130-150MHz



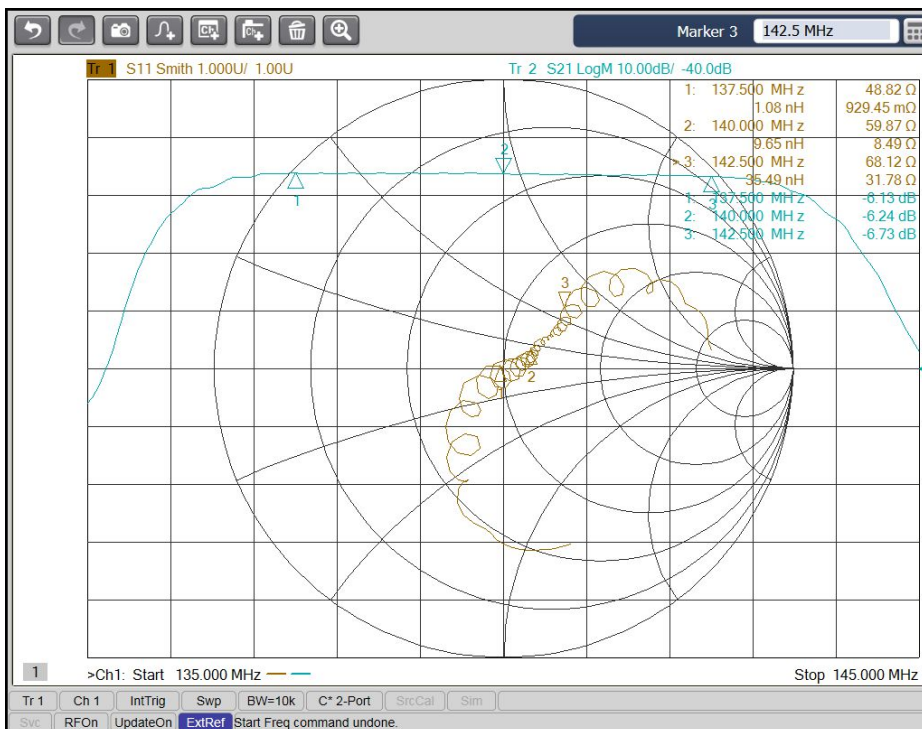
Phase 130-150MHz



Insertion Loss and Return Loss 130-150MHz



Smith Chart 130-150MHz



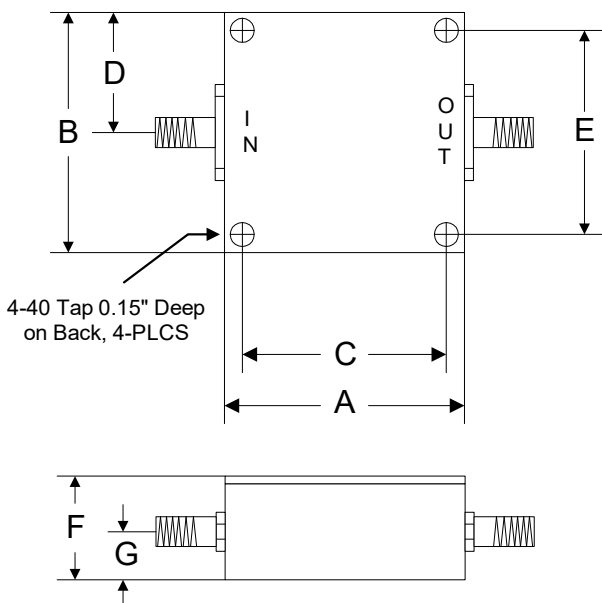
BPF Series

137.5-142.5MHz Band Pass Filter

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+10dBm
DC Voltage	0V
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