

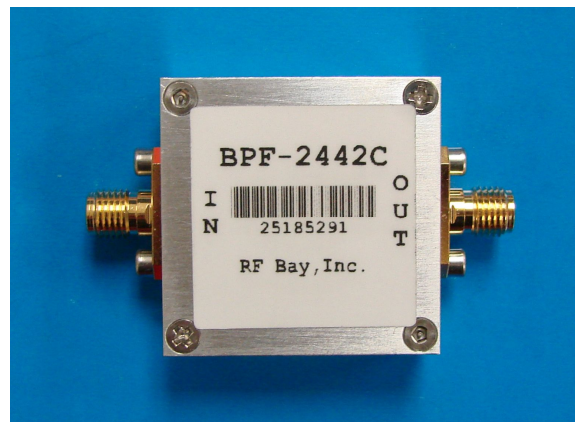
## BPF Series

## 2400-2484MHz Band Pass Filter

### Features

- Center Frequency: 2442MHz
- Pass Band: 2400 – 2484MHz
- Insertion Loss: 1.5dB
- Input/Output Impedance: 50Ω
- Maximum Input Power: 2W
- 3-Pole Ceramic Technology
- Linear Phase
- SMA Connector

### Picture



### Description

BPF-2442C is a 2400 - 2484MHz Band Pass Filter for 2.4GHz ISM application.

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

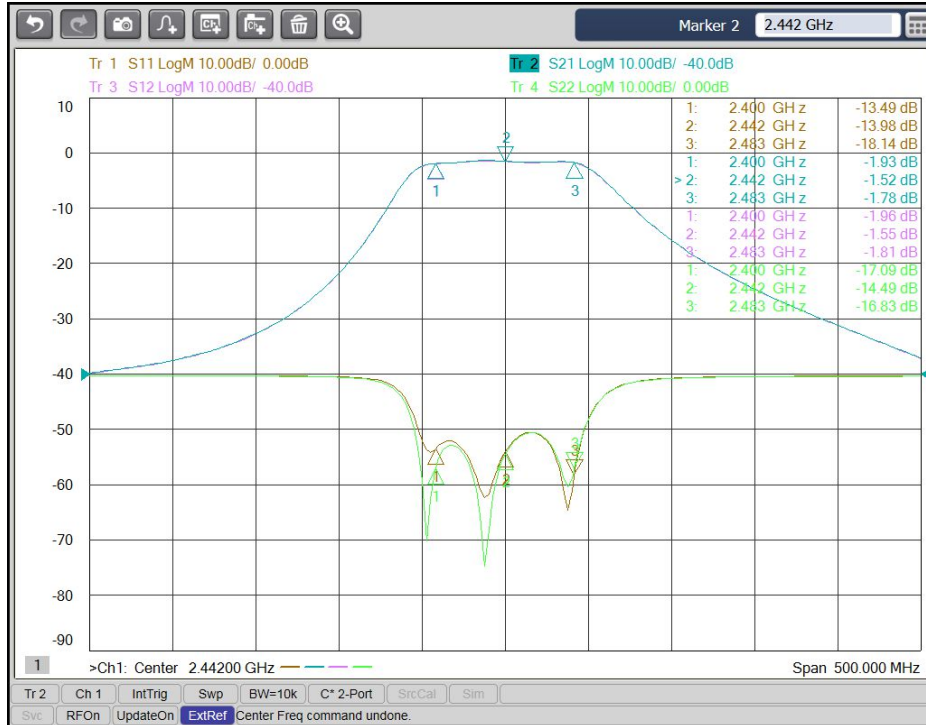
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	2400		2484
Center Frequency	MHz		2442	
Insertion Loss @ CF=2442MHz	dB		1.5	2.0
Rejection at 1942MHz	dB	40	42	
at 2942MHz	dB	38	40	
Maximum Input Power	W			2
Input/output impedance	$\Omega$		50	
Group Delay	ns		6.5	
Group Delay Ripple	ns		$\pm 1.7$	
VSWR @ CF				
Input VSWR			1.3:1	1.8:1
Output VSWR			1.3:1	1.8:1
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 2192-2692MHz**



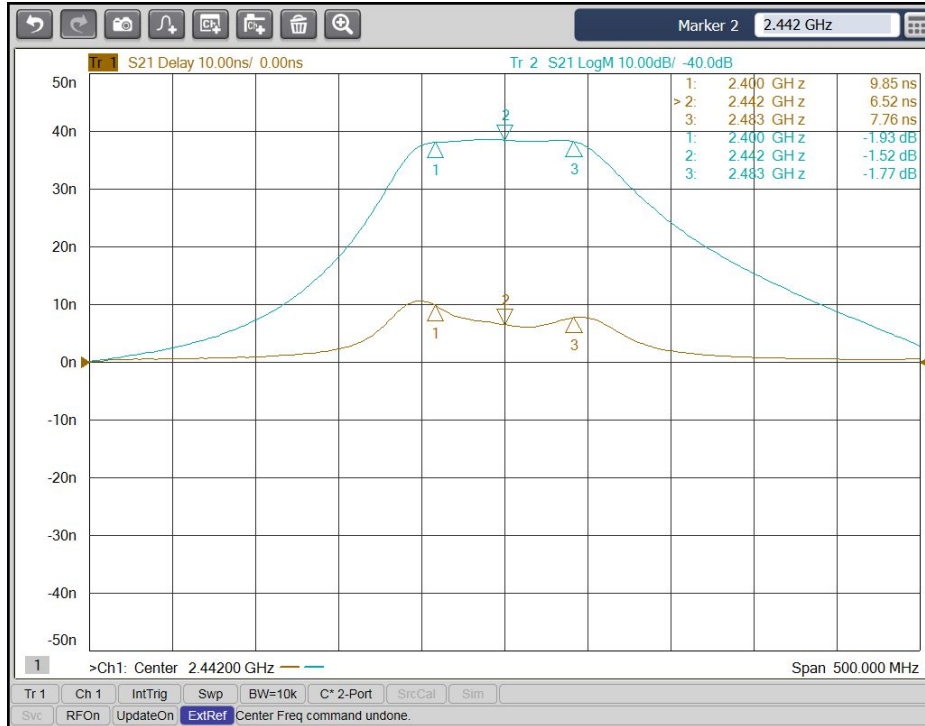
**S-Parameter 0.3-5000MHz**



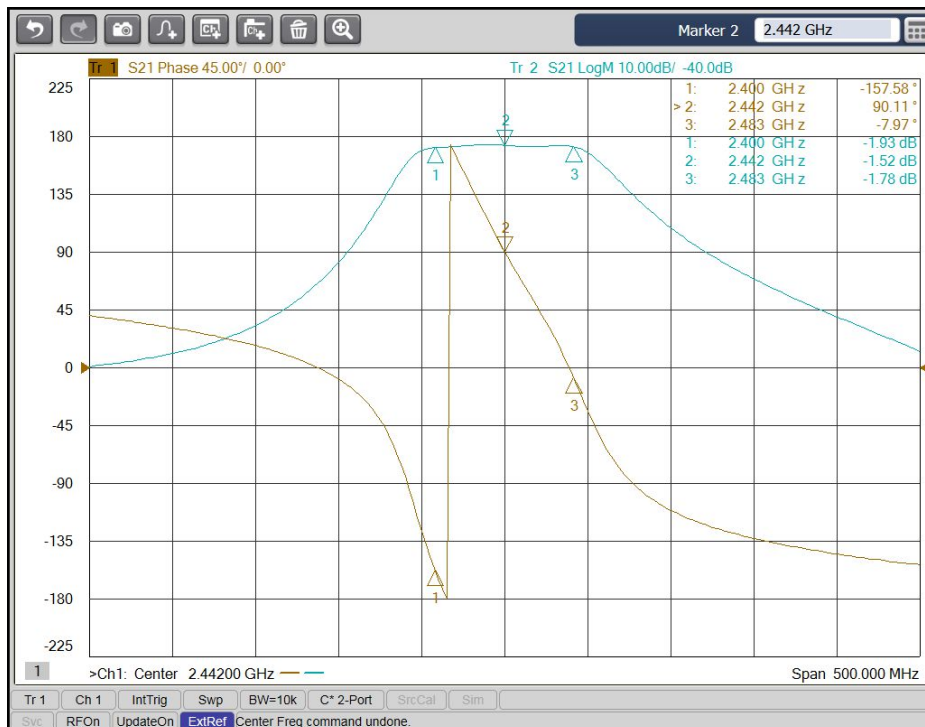
**BPF Series**

**2400-2484MHz Band Pass Filter**

**Group Delay 2192-2692MHz**



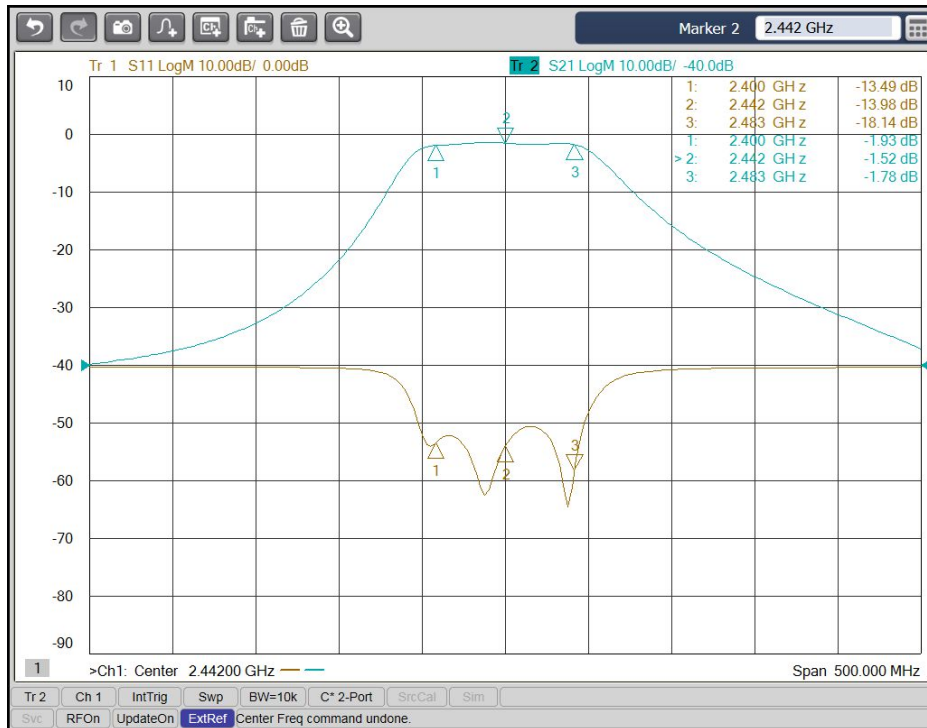
**Phase 2192-2692MHz**



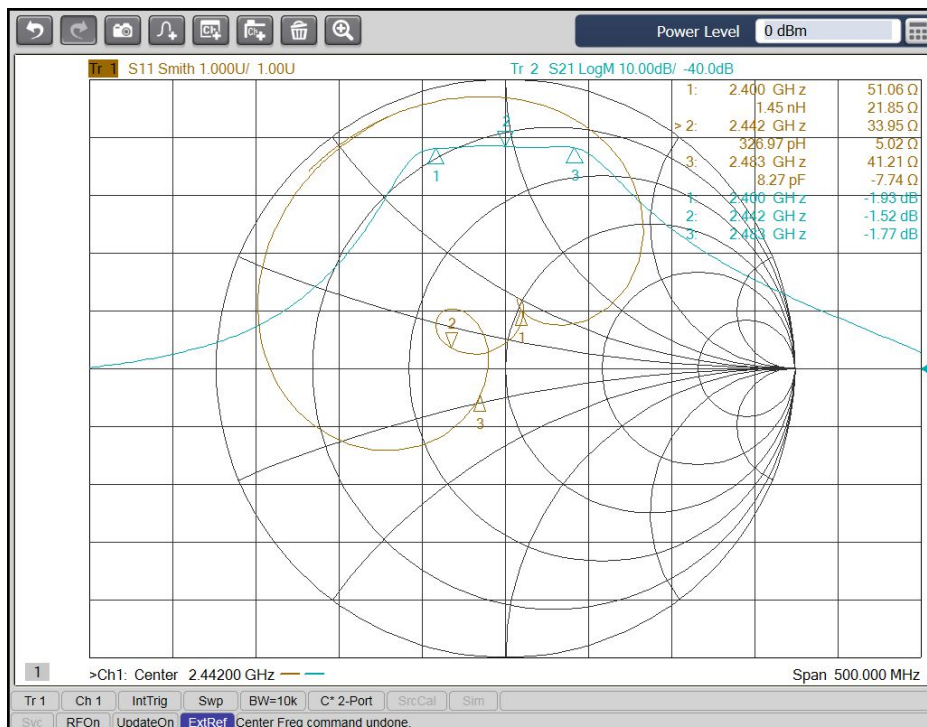
**BPF Series**

**2400-2484MHz Band Pass Filter**

**Insertion Loss and Return Loss 2192-2692MHz**



**Smith Chart 2192-2692MHz**



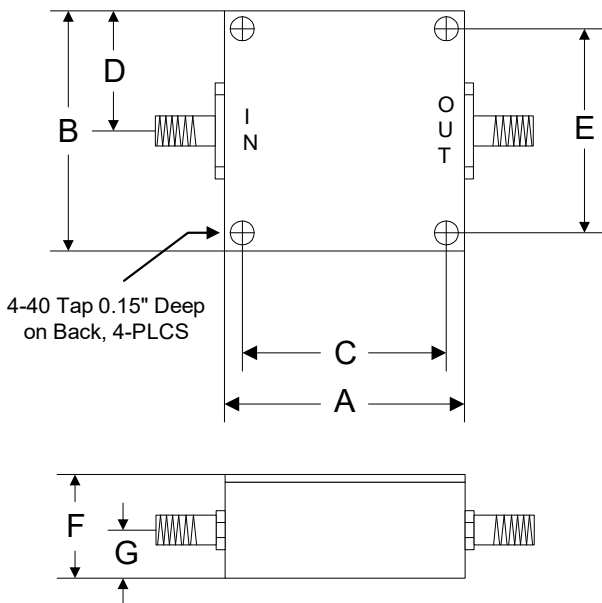
## BPF Series

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### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+33dBm
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-65 °C to +150 °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