

BPF Series

902-928MHz Band Pass Filter

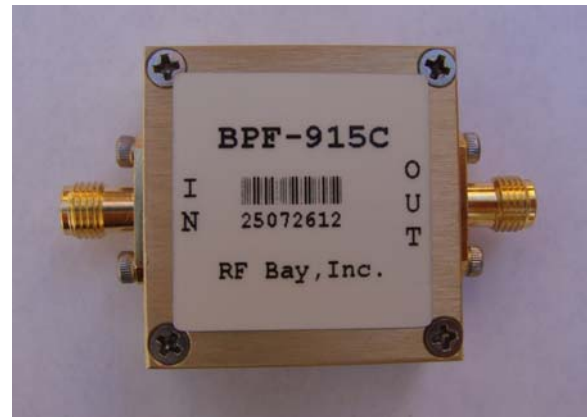
Features

- Center Frequency: 915MHz
- Pass Band: 902 – 928MHz
- Insertion Loss: 1.5dB
- Input/Output Impedance: 50Ω
- Maximum Input Power: 2W
- 3-Pole Ceramic Technology
- SMA Connector

Description

BPF-915C is a 3-pole ceramic 902-928MHz Band Pass Filter for 900MHz ISM Band application.

Picture

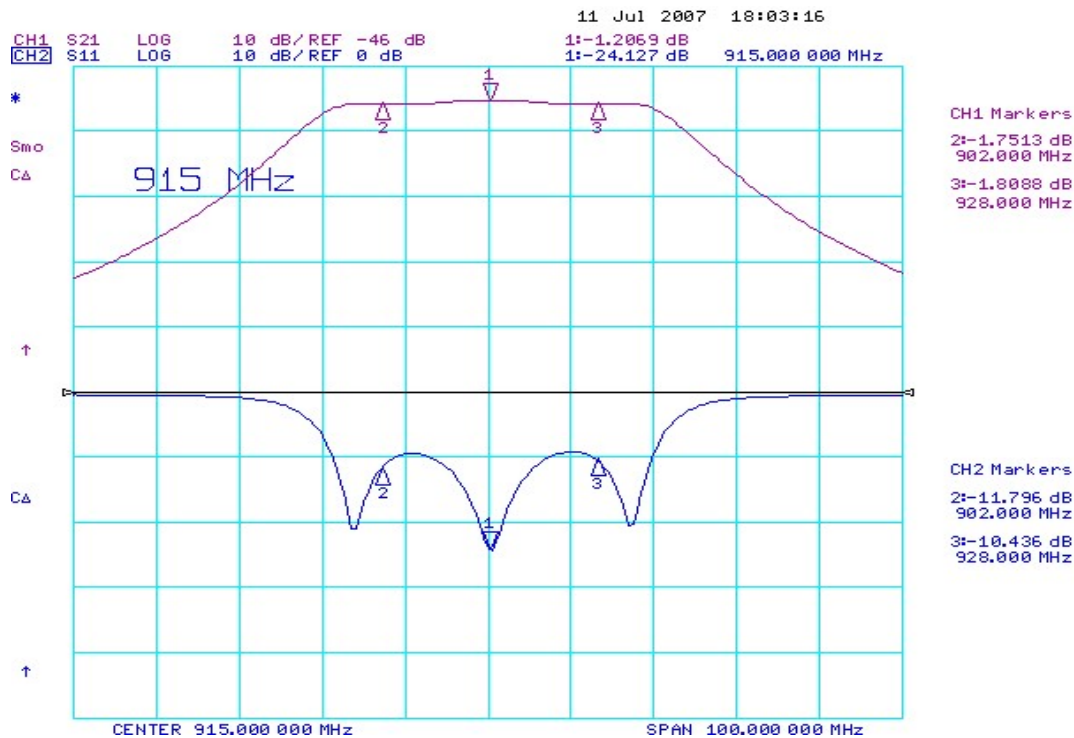
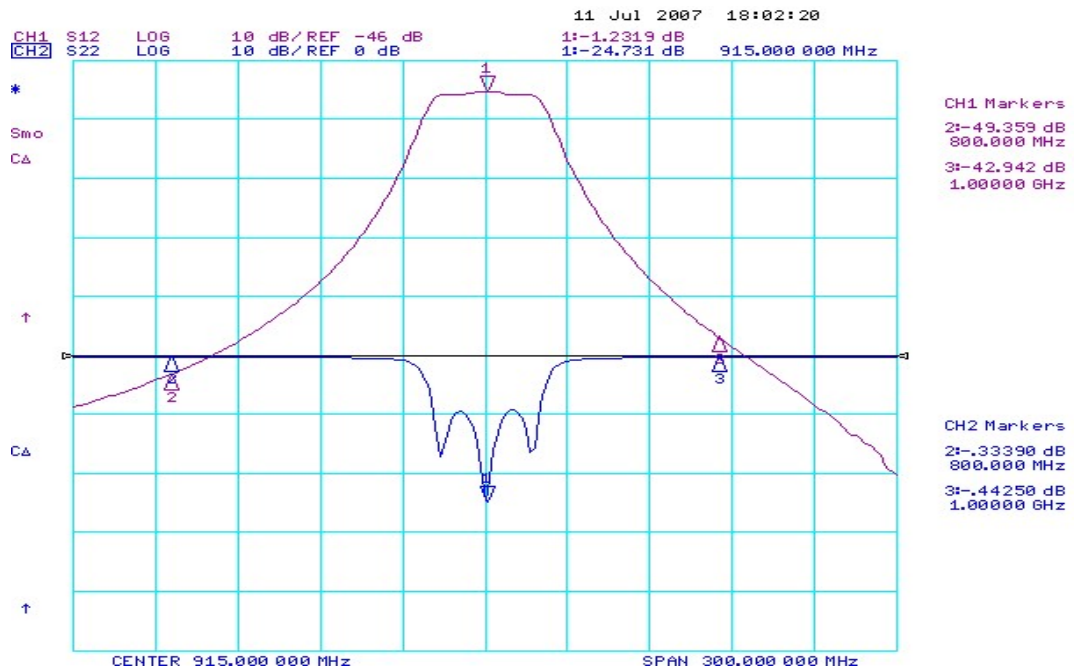


Electrical Specifications @ +25 °C, $Z_S = Z_L = 50 \Omega$

| Parameter | Unit | Minimum | Typical | Maximum |
|---------------------------------|----------|-----------------------|-----------|---------|
| Frequency Range | MHz | 902 | | 928 |
| Center Frequency | MHz | | 915 | |
| Insertion Loss | dB | | 1.5 | |
| Rejection at 800MHz | dB | | 45 | |
| Rejection at 1000MHz | dB | | 40 | |
| Maximum Input Power | W | | 2.0 | |
| Input/output impedance | Ω | | 50 | |
| Group Delay | ns | | 20 | |
| Group Delay Ripple | ns | | ± 1.5 | |
| VSWR | | | | |
| Input VSWR | | | 2.0:1 | |
| Output VSWR | | | 2.0:1 | |
| Size (excluding SMA connectors) | inch | 1.25" x 1.25" x 0.56" | | |
| Weight | Oz | 1.5 | | |

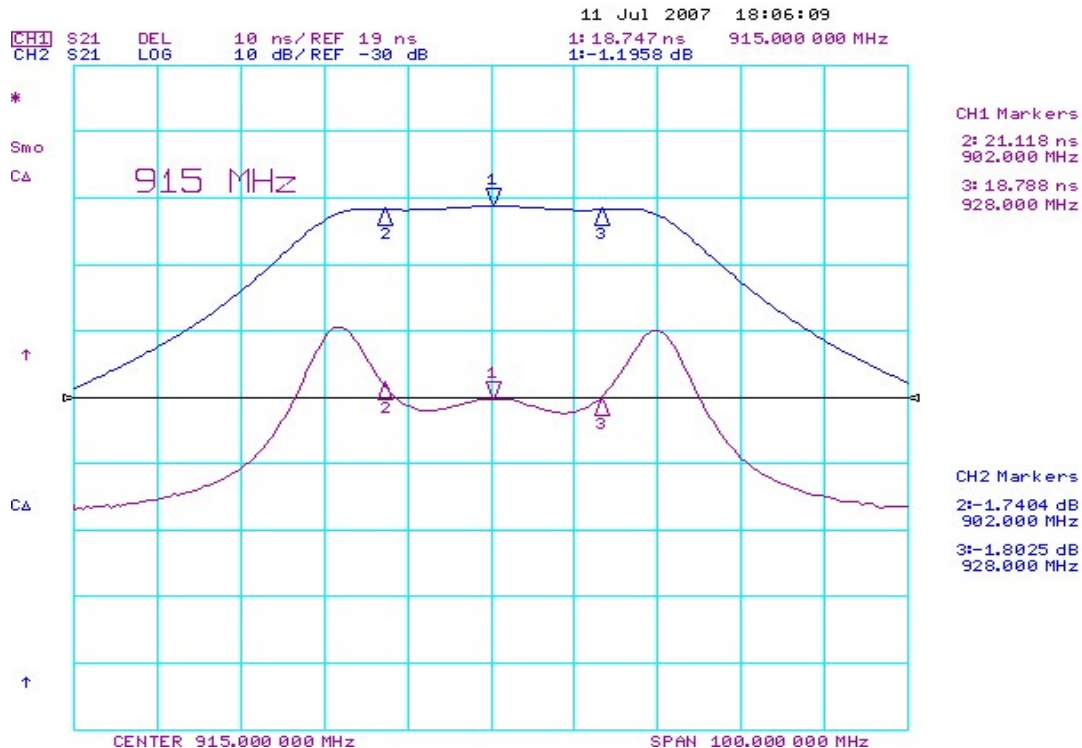
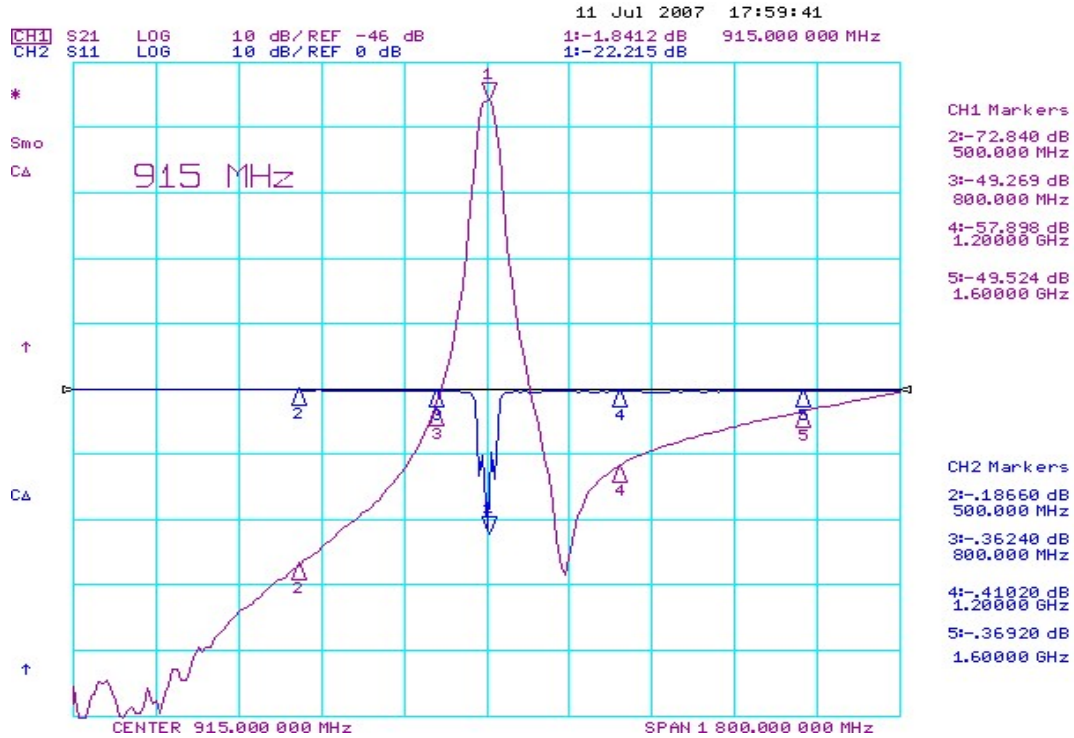
Note: Input and output are interchangeable

Typical Performance @ +25 °C



BPF Series

902-928MHz Band Pass Filter



11 Jul 2007 18:03:59
[CH1] S11 1 U FS 1: 47.416 Ω -5.7930 Ω 30.026 pF 915.000 000 MHz

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Smo
CA

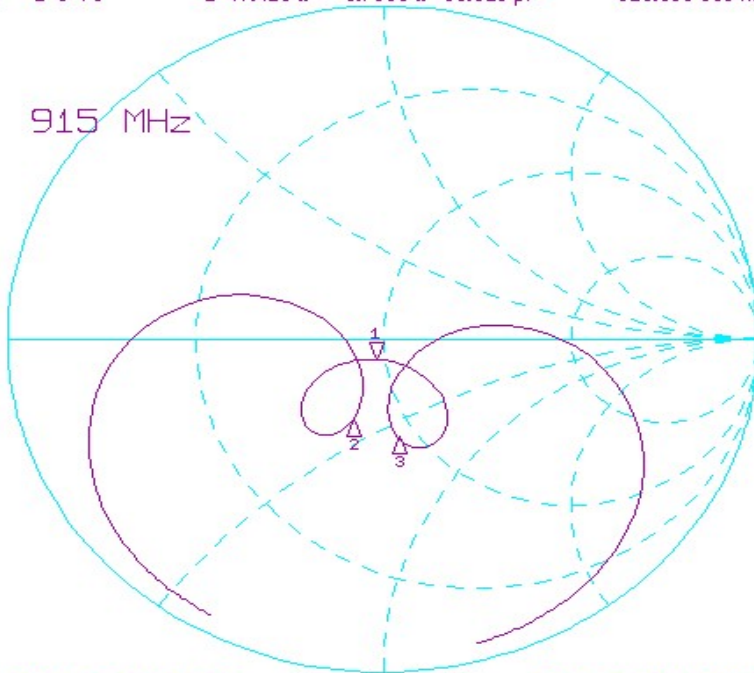
915 MHz

CH1 Markers

2: 37.951 Ω
-19.861 Ω
902.000 MHz

3: 45.062 Ω
-23.584 Ω
928.000 MHz

↑



CENTER 915.000 000 MHz

SPAN 100.000 000 MHz

11 Jul 2007 18:04:23
[CH1] S22 1 U FS 1: 47.756 Ω -5.5371 Ω 31.413 pF 915.000 000 MHz

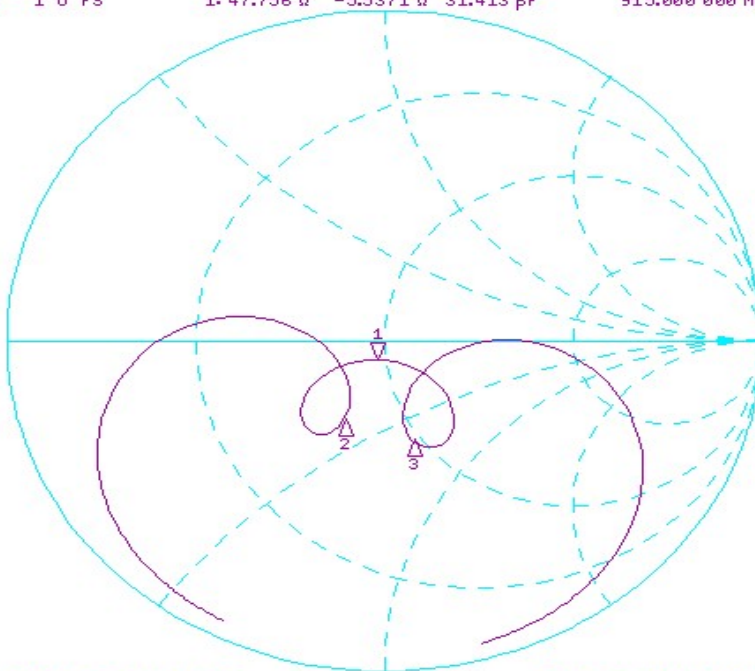
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Smo
CA

CH1 Markers

2: 36.109 Ω
-18.891 Ω
902.000 MHz

3: 47.791 Ω
-31.723 Ω
928.000 MHz

↑



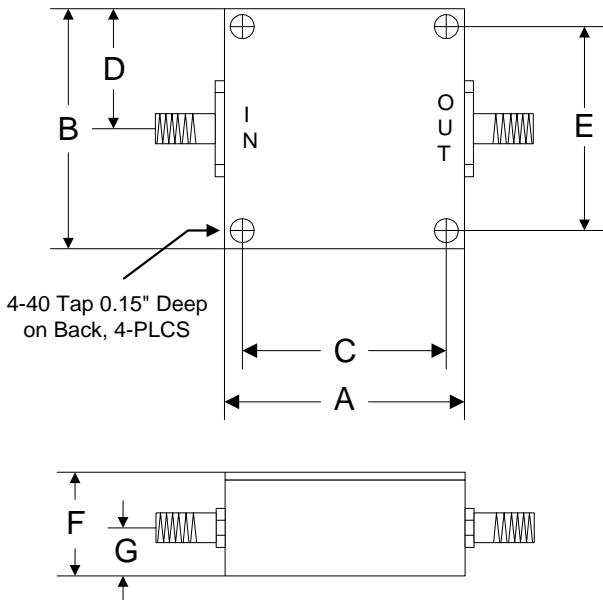
CENTER 915.000 000 MHz

SPAN 100.000 000 MHz

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 |
|-------------|-------|-------|-------|-------|-------|-------|-------|
| 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 |