

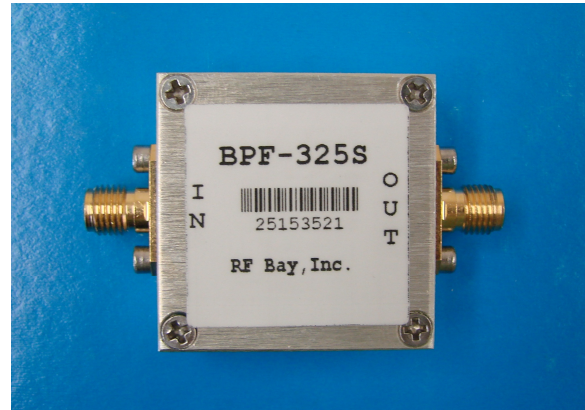
BPF Series

314-316MHz Band Pass Filter

Features

- Center Frequency: 315MHz
- Bandwidth: ± 1 MHz
- Insertion Loss: 3dB
- Input/Output Impedance: 50Ω
- Maximum Input Power: +10dBm
- SAW Technology
- SMA Connector

Picture



Description

BPF-315S is a 314-316MHz SAW Band Pass Filter for 315MHz Fixed/Mobile or IF application.

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

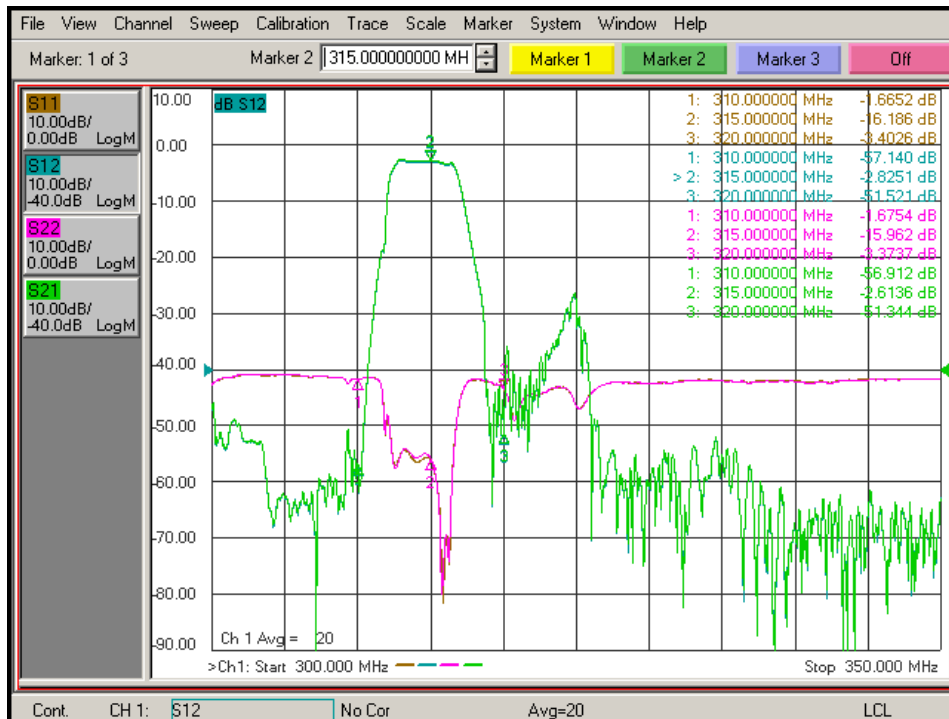
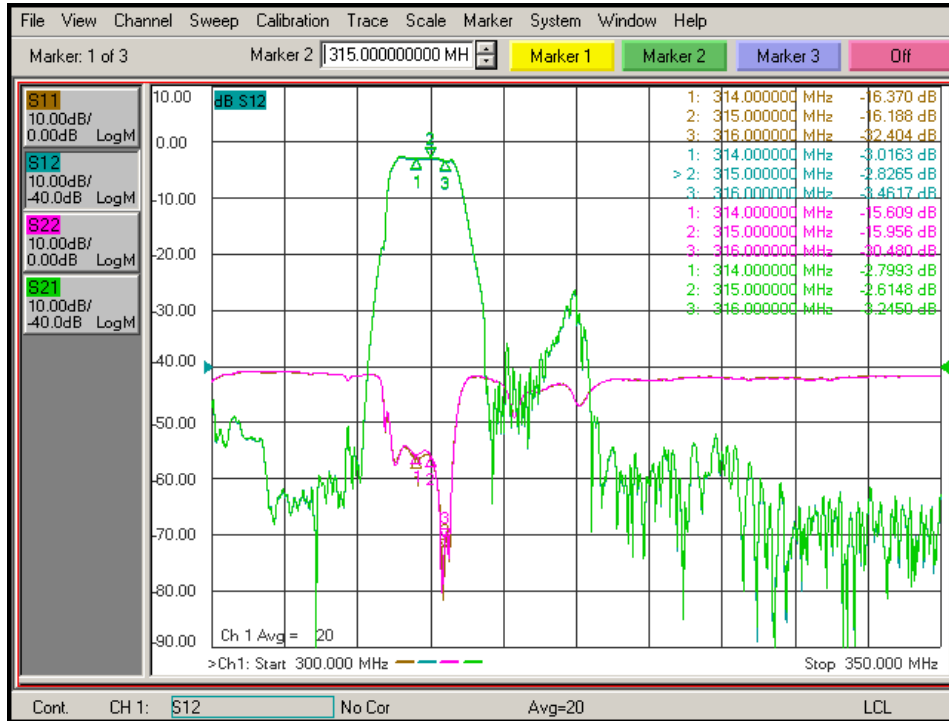
| Parameter | Unit | Minimum | Typical | Maximum |
|---------------------------------|---------------------------|-----------------------|----------------|---------|
| Frequency Range | MHz | 314 | | 316 |
| Center Frequency | MHz | | 315 | |
| Insertion Loss | dB | | 3 | 4 |
| Rejection at 310MHz | dB | 45 | 53 | |
| Rejection at 320MHz | dB | 35 | 45 | |
| Maximum Input Power | dBm | | | +10 |
| Maximum Input DC Voltage | V | | | 0 |
| Input/output impedance | Ω | | 50 | |
| Group Delay | ns | | 230 | |
| Group Delay Ripple | ns | | ± 5 | |
| VSWR | Input VSWR Output VSWR | | 1:1.5 1:1.5 | |
| Size (excluding SMA connectors) | inch | 1.25" x 1.25" x 0.56" | | |
| Weight | oz | 1.5 | | |

Note: Input and output ports are interchangeable

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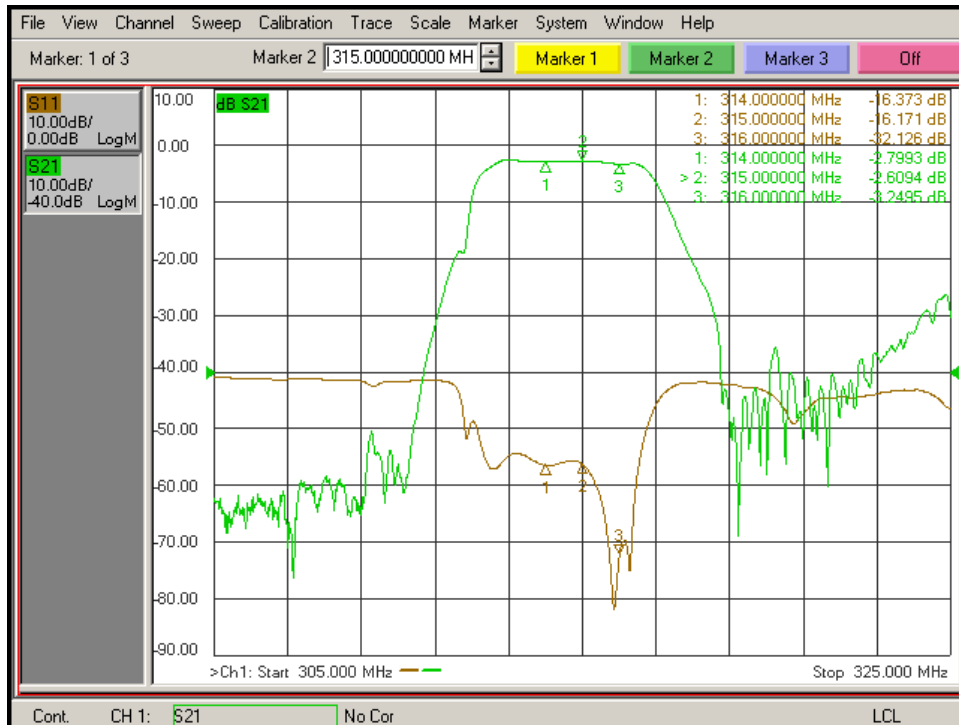
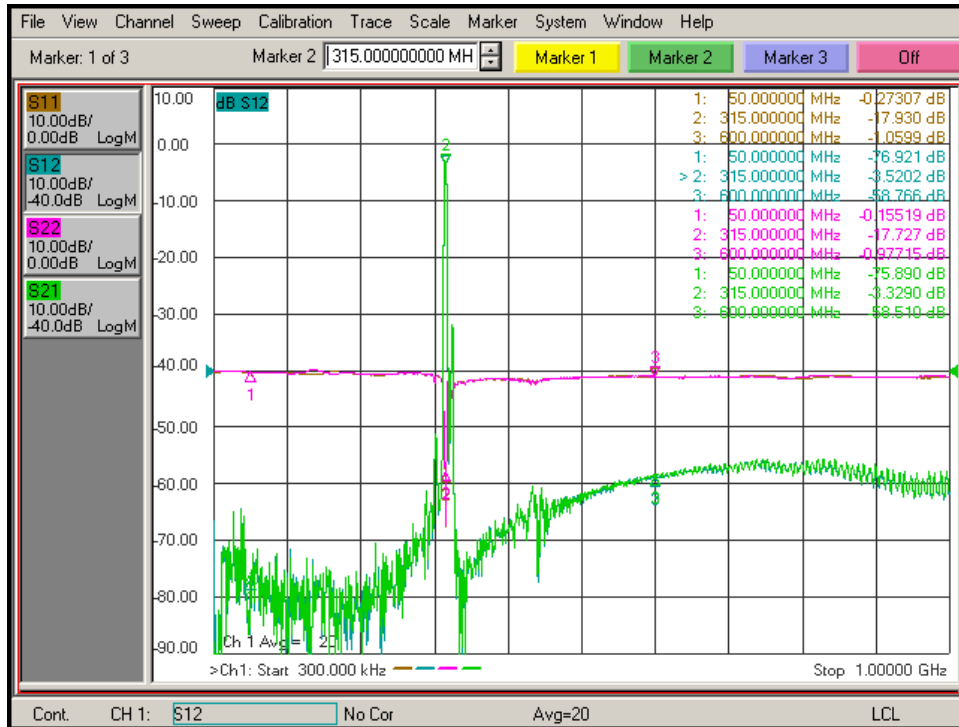
Insertion Loss and Rejection:



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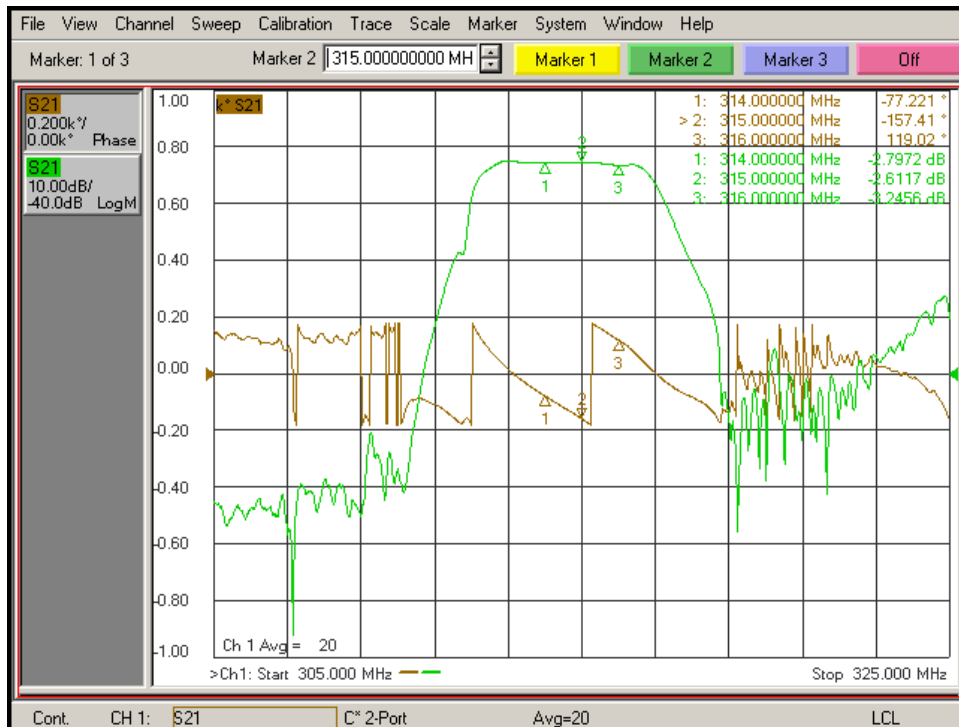
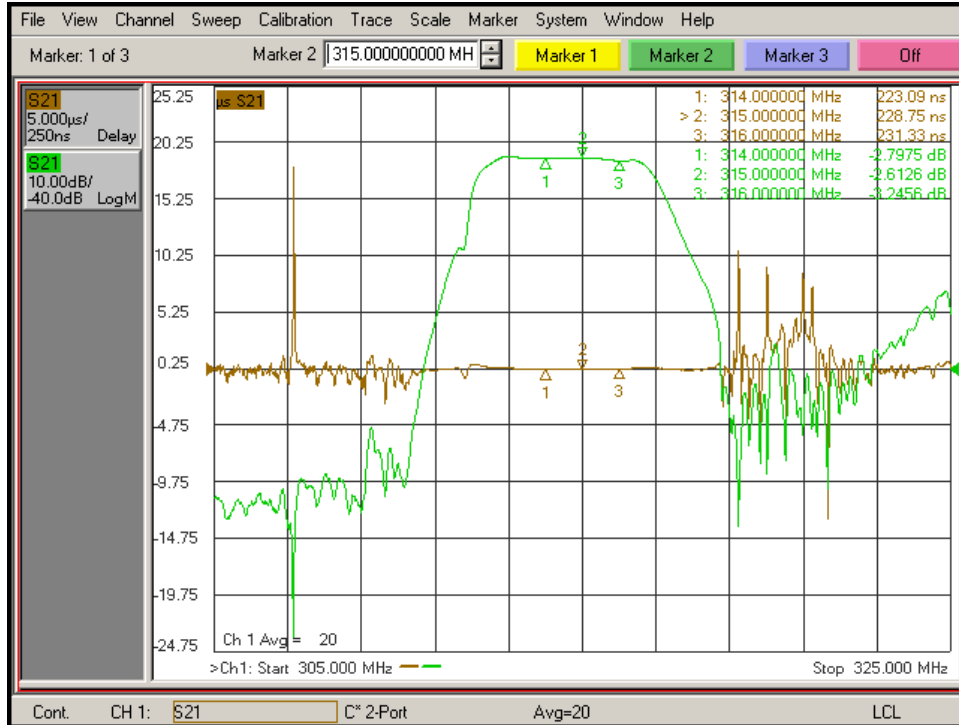
Insertion Loss and Rejection:



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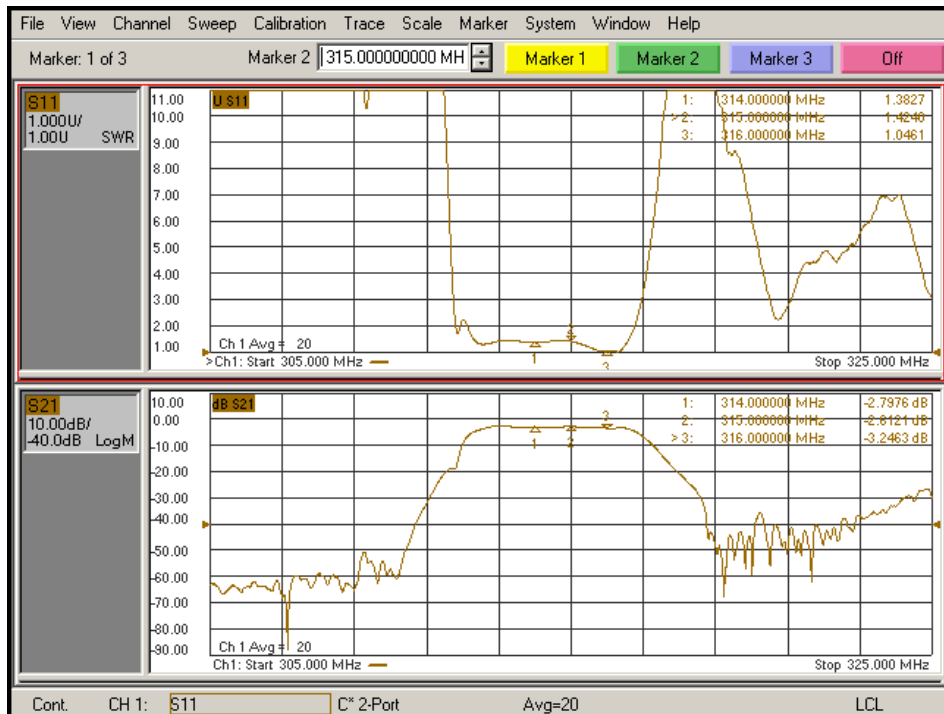
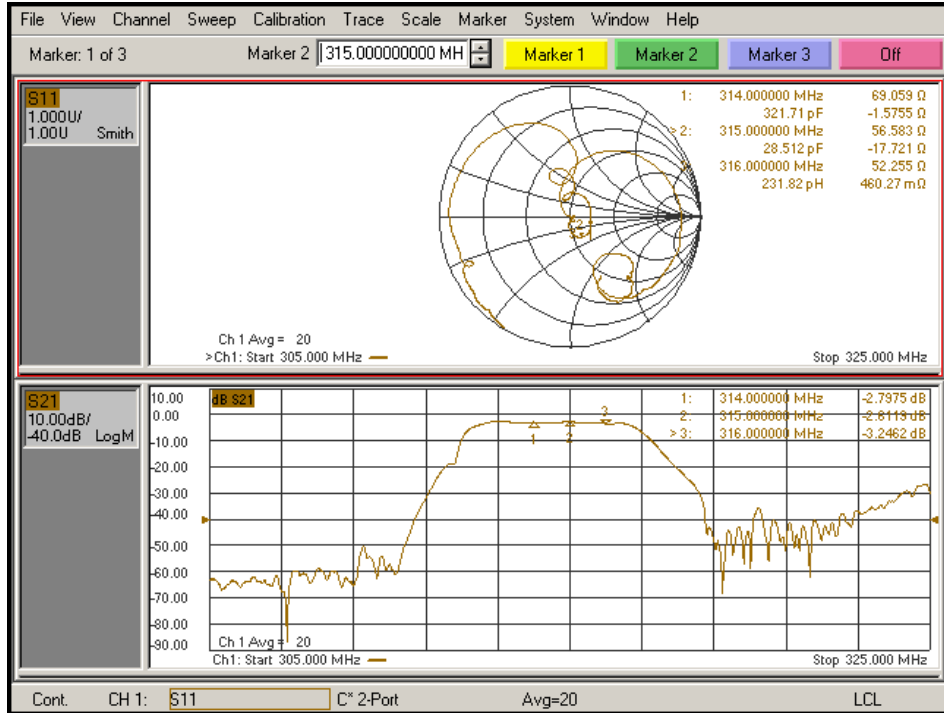
Delay and Phase:



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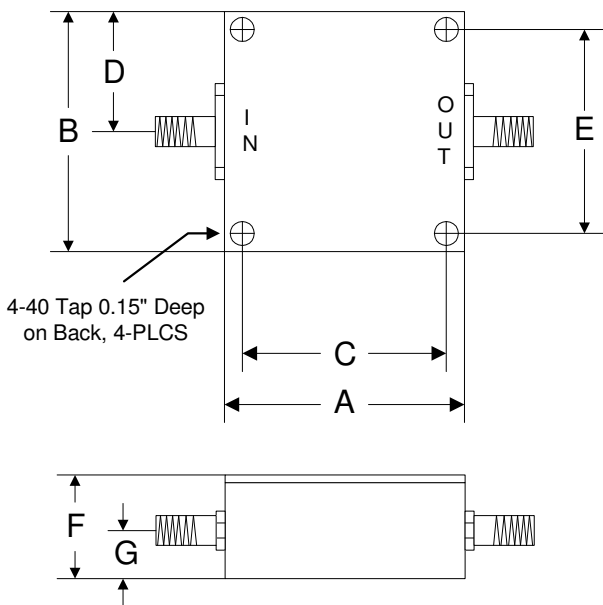
Smith Chart and VSWR:



Absolute Maximum Ratings

| Parameter | Absolute Maximum |
|-----------------------|-------------------|
| RF Input Power | +10dBm |
| DC Input Voltage | 0V |
| Operating Temperature | -40 °C to +85 °C |
| Storage Temperature | -55 °C to +100 °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 |