

## 186-340MHz Band Pass Filter

### Features

- Center Frequency: 253MHz
- Pass Band: 186 – 340MHz
- Insertion Loss: 1.2dB
- Input/Output Impedance: 50Ω
- Maximum Input Power: 0.5W
- Linear Phase
- SMA Connector

### Description

HD32490 is a 186 - 340MHz Band Pass Filter for 253MHz application.

### Picture



### Electrical Specifications @ +25 °C, Z<sub>s</sub> = Z<sub>L</sub> = 50 Ω

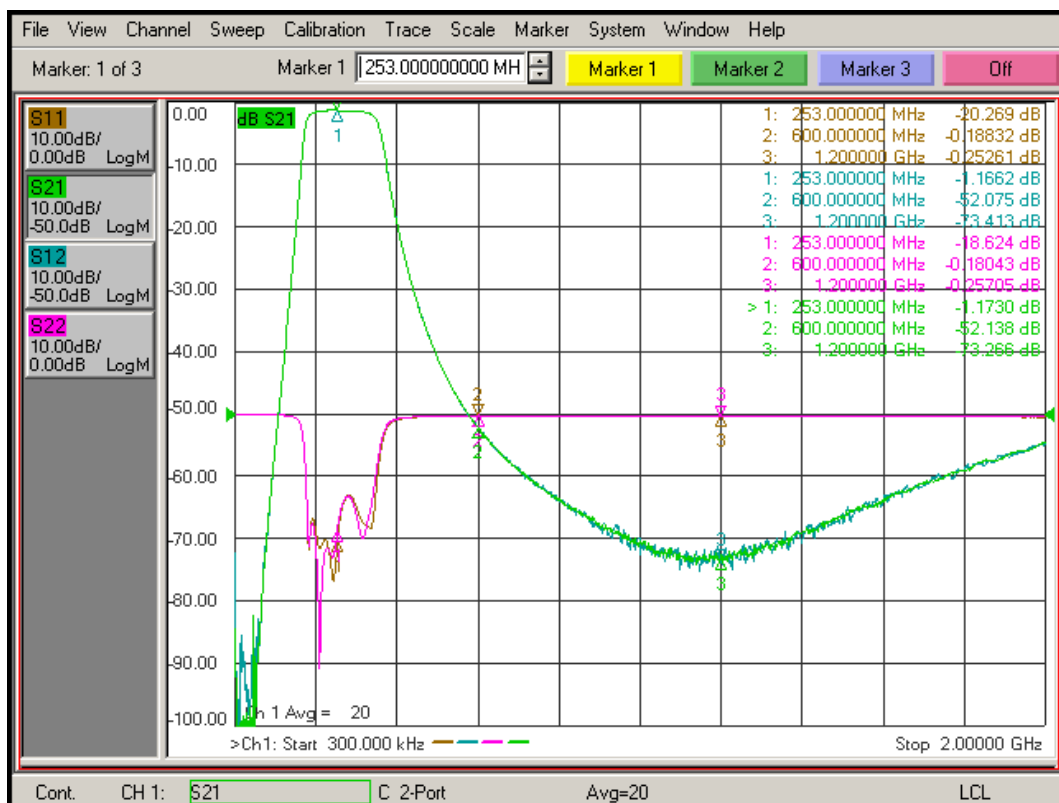
| Parameter                       | Unit | Minimum               | Typical | Maximum |
|---------------------------------|------|-----------------------|---------|---------|
| Frequency Range                 | MHz  | 186                   |         | 340     |
| Center Frequency                | MHz  |                       | 253     |         |
| Insertion Loss                  | dB   |                       | 1.2     | 2.0     |
| Rejection at 140MHz             | dB   | 20                    | 26      |         |
| at 120MHz                       | dB   | 35                    | 40      |         |
| Rejection at 440MHz             | dB   | 20                    | 27      |         |
| at 500MHz                       | dB   | 35                    | 39      |         |
| Maximum Input Power             | W    |                       |         | 0.5     |
| Input/output impedance          | Ω    |                       | 50      |         |
| Group Delay                     | ns   |                       | 6.5     |         |
| Group Delay Ripple              | ns   |                       | ±3      |         |
| VSWR                            |      |                       |         |         |
| Input VSWR                      |      |                       | 1.7:1   | 2.1:1   |
| Output VSWR                     |      |                       | 1.7:1   | 2.1:1   |
| Size (excluding SMA connectors) | inch | 1.25" x 1.25" x 0.56" |         |         |
| Weight                          | Oz   | 1.5                   |         |         |

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Note: Input and output are interchangeable



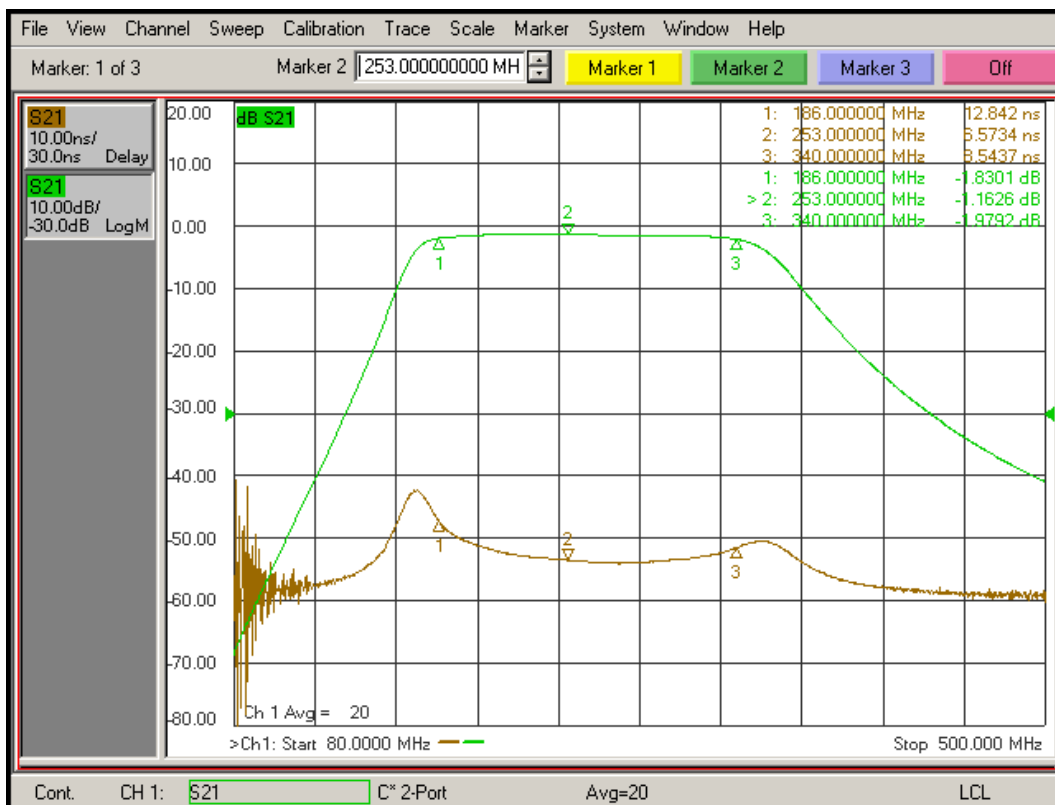
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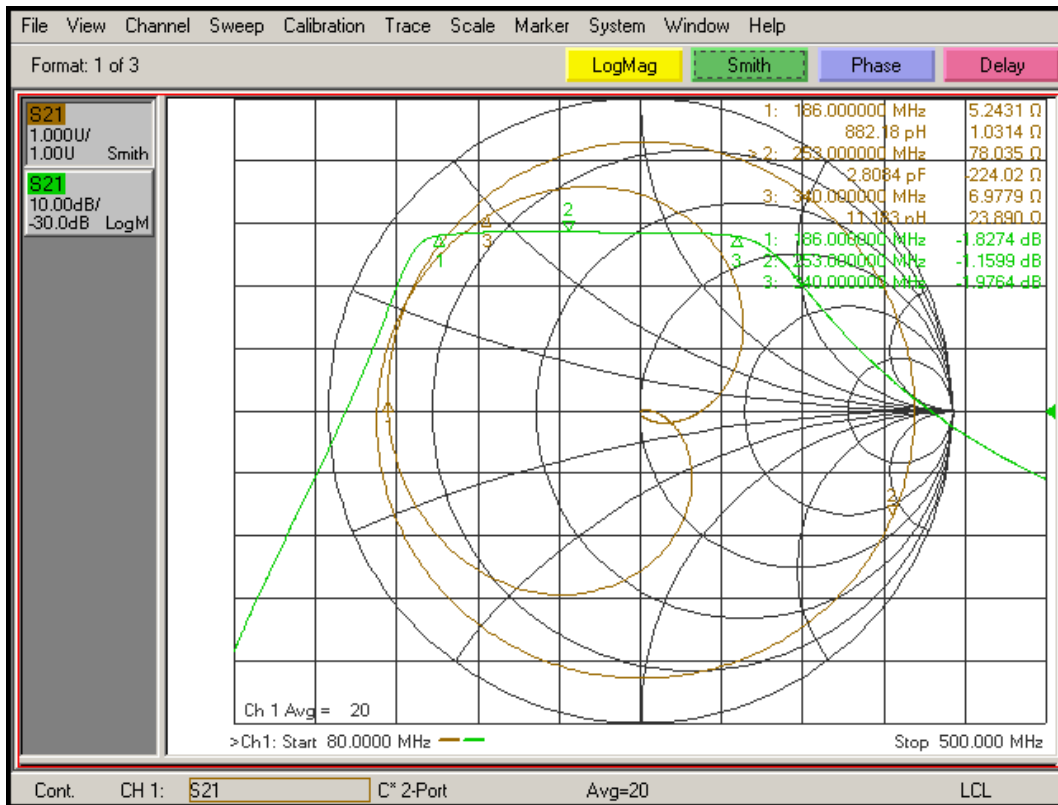
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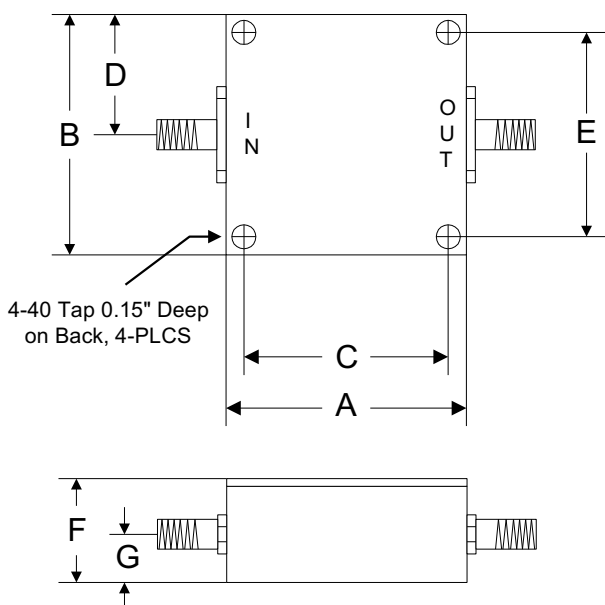


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### Absolute Maximum Ratings

| Parameter             | Absolute Maximum  |
|-----------------------|-------------------|
| RF Input Power        | +27dBm            |
| 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  |