



6 Section Bandpass Filter With SMA Female Connectors Operating From 4.4 GHz to 4.95 GHz With a 550 MHz Passband

Bandpass Filters Technical Data Sheet

PE8739

Features

- Pass band of 550 MHz
- 4.4 to 4.95 GHz
- Six section
- Combine filter design
- Minimum 30 dB rejection at 5.25 GHz to 5.85 GHz frequency range
- Maximum insertion loss of 1.25 dB
- Female SMA connectors

Applications

- P2P
- Public Safety

Description

The PE8739 is a six section band pass filter that is useful for filtering for P2P and public safety uses. The pass band is 550 MHz, or 4.4 to 4.95 GHz. Implementing a combine design, the filter has excellent minimum rejection of 30 dB at 5.25 GHz to 5.85 GHz frequency range. It has a maximum insertion loss of 1.25 dB. The PE8739 has SMA Female connectors.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------------|---------|---------|---------|-------|
| Passband Frequency | 4.4 | | 4.95 | GHz |
| Impedance | | 50 | | Ohms |
| Insertion Loss | | | 1.25 | dB |
| Passband VSWR | | 1.5:1 | | |
| Rejection at 5.25 GHz | 30 | | | dB |
| Rejection at 5.85 GHz | 30 | | | dB |
| Input Power, CW | | | 5 | Watts |

Electrical Specification Notes: Values at +25°C, sea level.

Mechanical Specifications

Size

| | |
|--------|---------------------|
| Length | 1.97 in [50.04 mm] |
| Width | 0.74 in [18.8 mm] |
| Height | 0.53 in [13.46 mm] |
| Weight | 0.175 lbs [79.38 g] |

Configuration

| | |
|--------------------|-----------------------|
| Design | Bidirectional Combine |
| Number of Sections | 6 |
| Package Style | Connectorized |
| Connector 1 | SMA Female |
| Connector 2 | SMA Female |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [6 Section Bandpass Filter With SMA Female Connectors Operating From 4.4 GHz to 4.95 GHz With a 550 MHz Passband PE8739](#)



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Environmental Specifications

Temperature

Operating Range

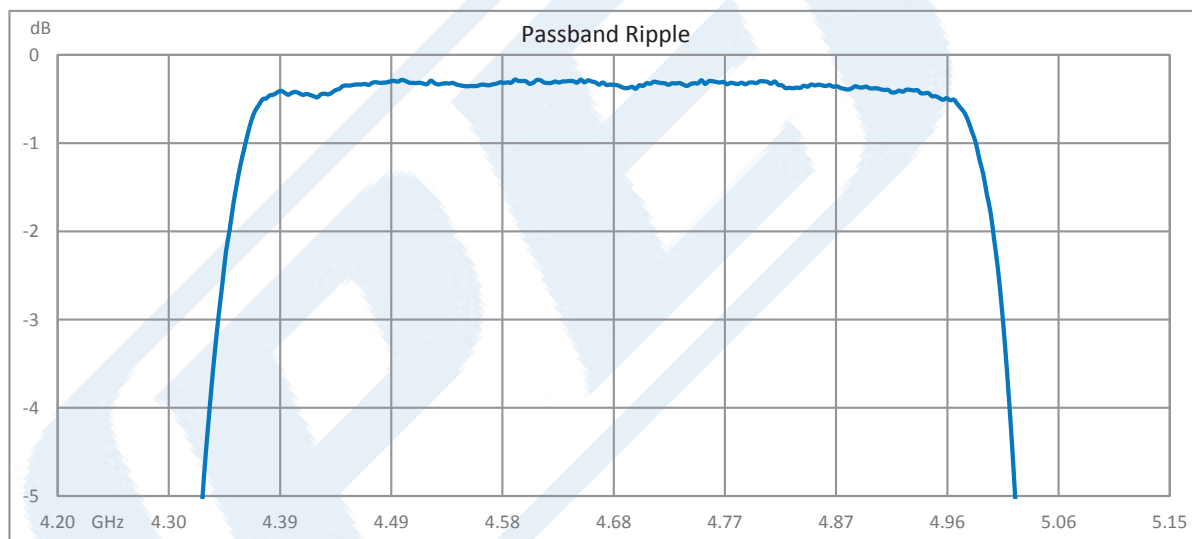
-30 to +70 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



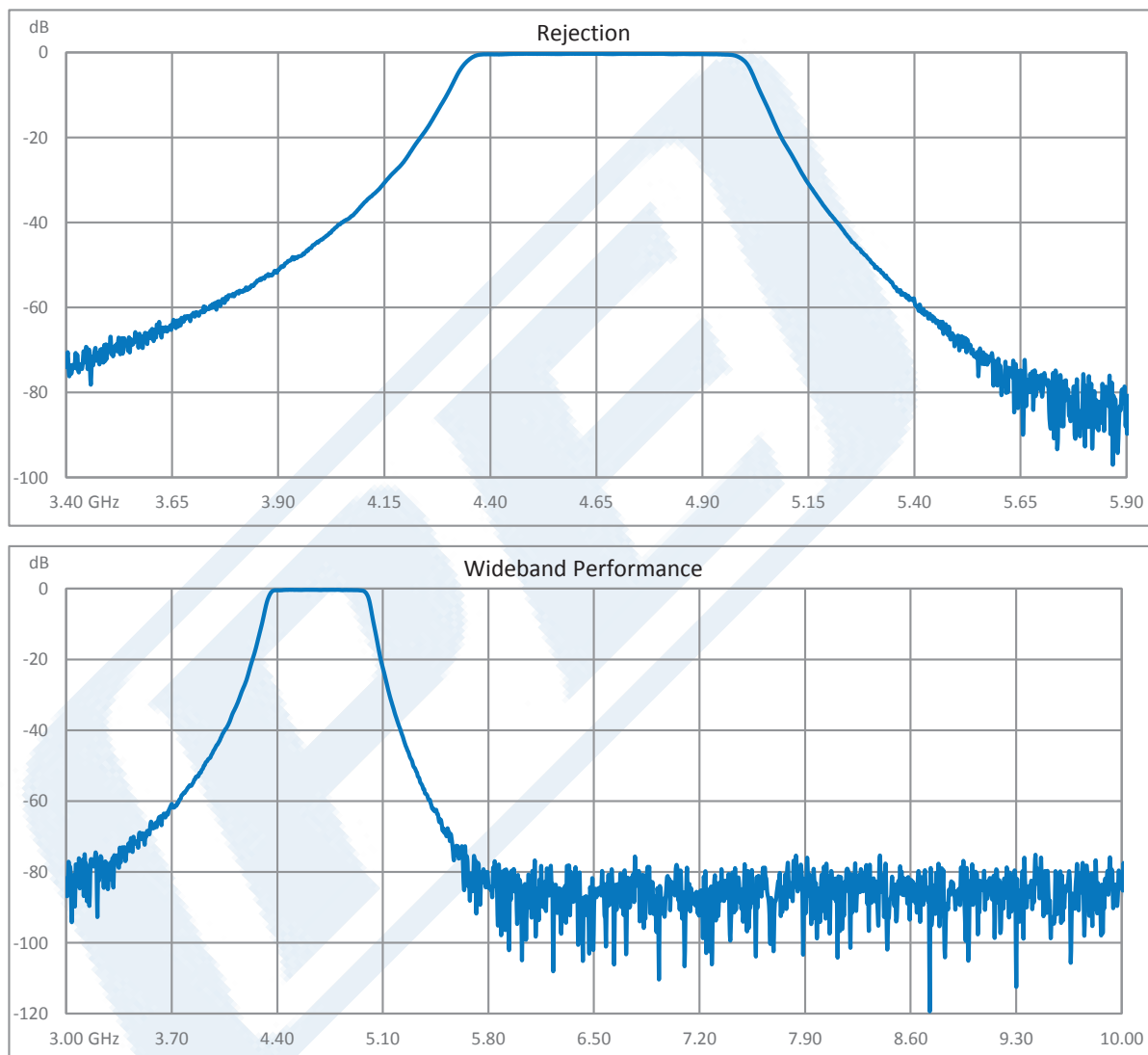
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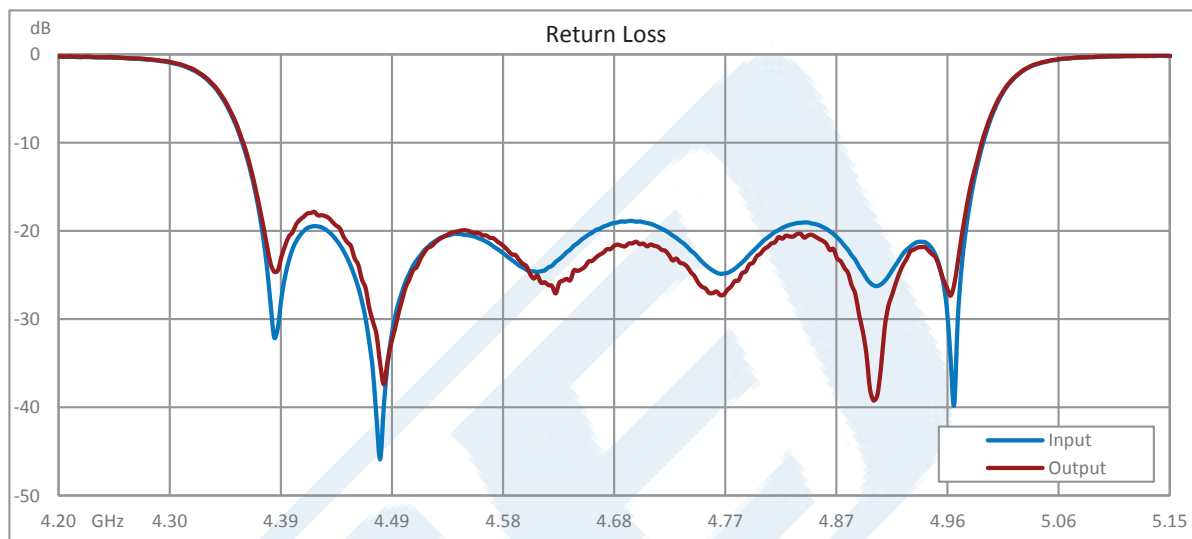
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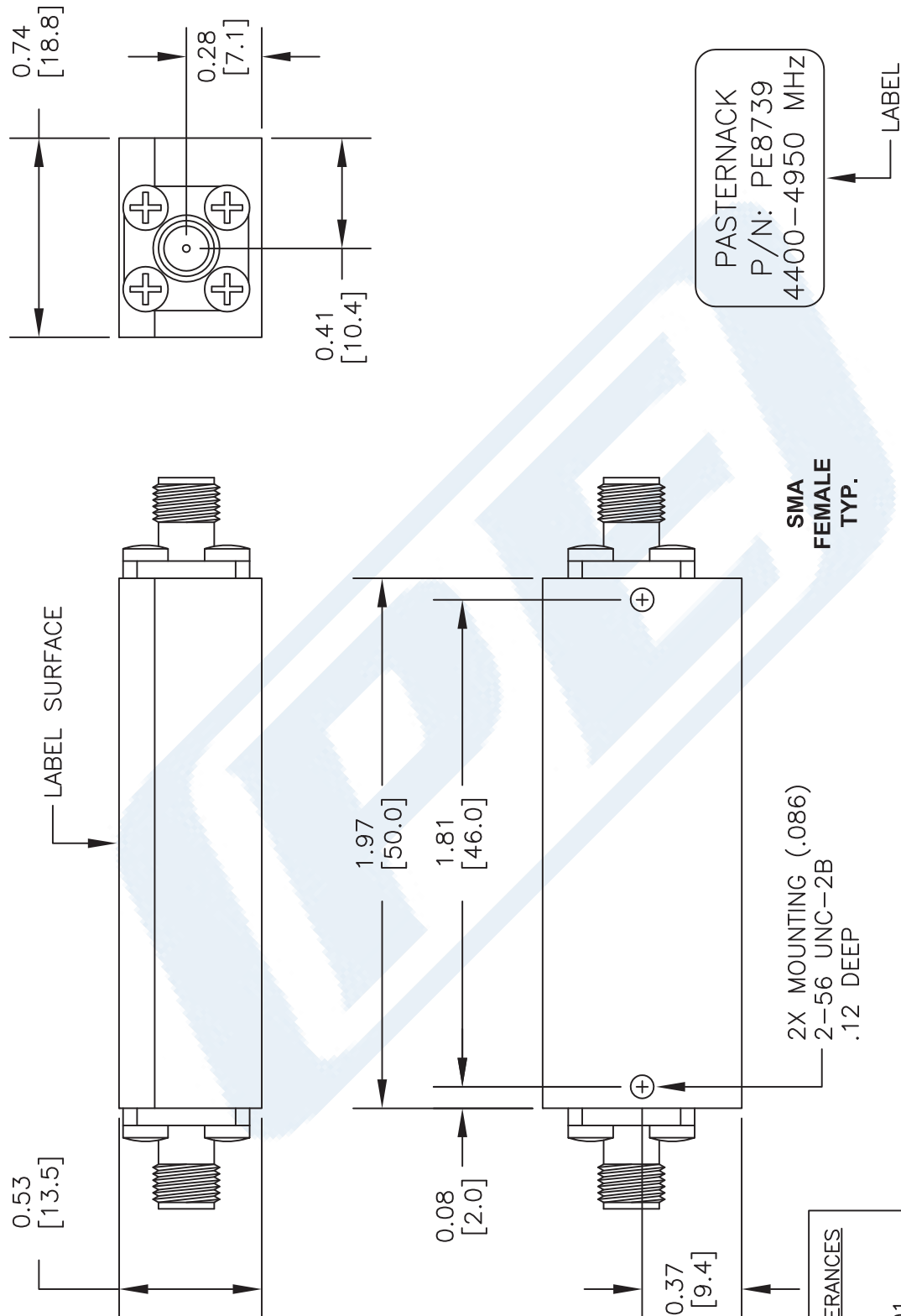
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [6 Section Bandpass Filter With SMA Female Connectors Operating From 4.4 GHz to 4.95 GHz With a 550 MHz Passband PE8739](https://www.pasternack.com/6-section-band-pass-filter-4.4-4.95-ghz-passband-550-mhz-pe8739-p.aspx)

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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE8739 CAD Drawing

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NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE
PE8739

FSCM NO. 53919

3045

SIZE A

SCALE N/A

CAD FILE 030716

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