



11 Section Bandpass Filter With SMA Female Connectors Operating From 10.55 GHz to 11.8 GHz With a 1.25 GHz Passband

Bandpass Filters Technical Data Sheet

PE87FL1001

Features

- Pass band of 1250 MHz
- 10.55 GHz to 11.8 GHz
- Eleven section
- Combine filter design
- 50 dB rejection at 8.45 GHz and 13.925 GHz (2.75 GHz from band center)
- Typical insertion loss of 1.25 dB
- Female SMA connectors

Applications

- Satellite communications

Description

The PE87FL1001 is an eleven section band pass filter. It is part of a family of filters that is useful for satellite communications. The pass band is 1250 MHz wide, from 10.55 GHz to 11.8 GHz. Implemented using a Combine design, the filter has excellent rejection of 50 dB at 8.45 GHz and 13.925 GHz, or ± 2.75 GHz from mid band. It has a maximum insertion loss of 1.25 dB. The PE87FL1001 has SMA female connectors.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|---------|---------|-------|
| Passband Frequency | 10.55 | | 11.8 | GHz |
| Impedance | | 50 | | Ohms |
| Insertion Loss | | | 1.25 | dB |
| Passband VSWR | | 1.4:1 | | |
| Rejection at 8.425 GHz | 50 | | | dB |
| Rejection at 13.925 GHz | 50 | | | dB |
| Input Power, CW | | | 2 | Watts |

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

Mechanical Specifications

Size

| | |
|--------|--------------------|
| Length | 2.69 in [68.33 mm] |
| Width | 0.5 in [12.7 mm] |
| Height | 0.47 in [11.94 mm] |

Configuration

| | |
|--------------------|-------------------|
| Design | Combine |
| Number of Sections | 11 |
| Package Style | Connectorized |
| Connector 1 | SMA Female |
| Connector 2 | SMA Female |
| Connector Option | Field Replaceable |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [11 Section Bandpass Filter With SMA Female Connectors Operating From 10.55 GHz to 11.8 GHz With a 1.25 GHz Passband PE87FL1001](#)



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Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant
REACH Compliant

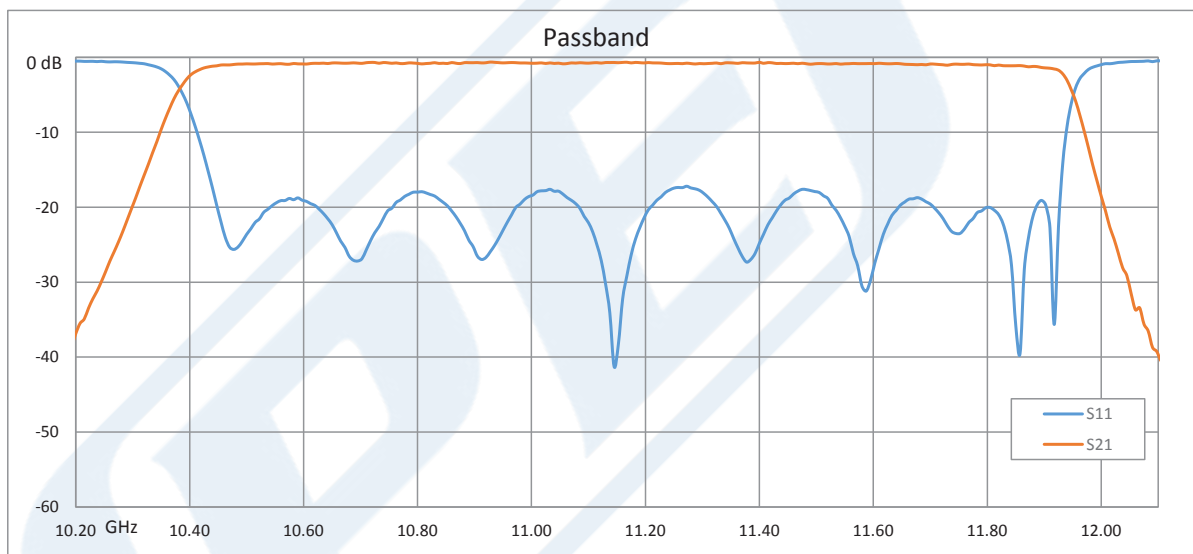
06/14/2014

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Typical Performance Data



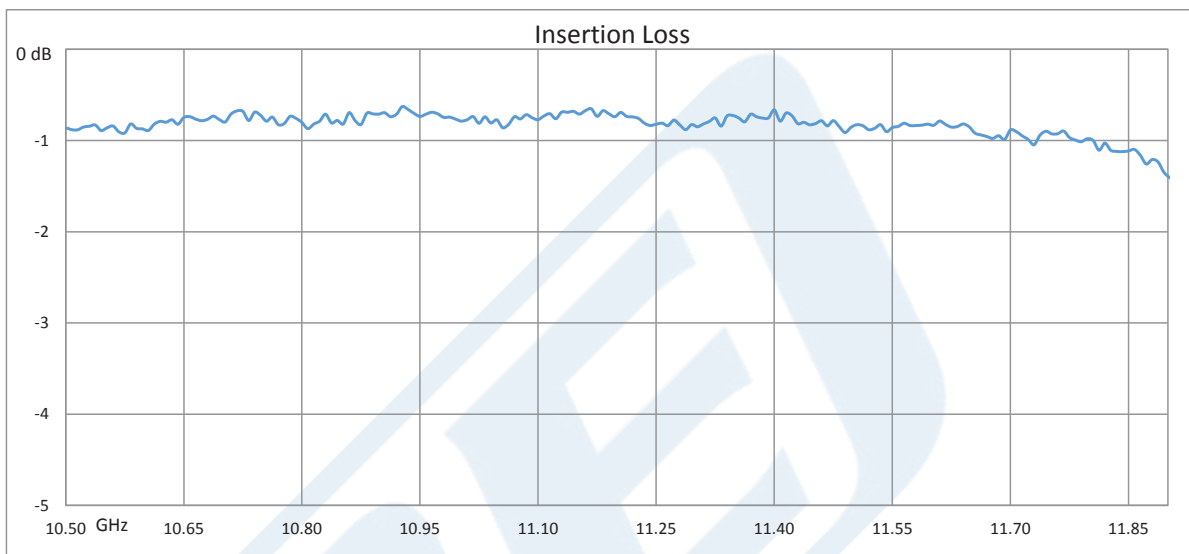
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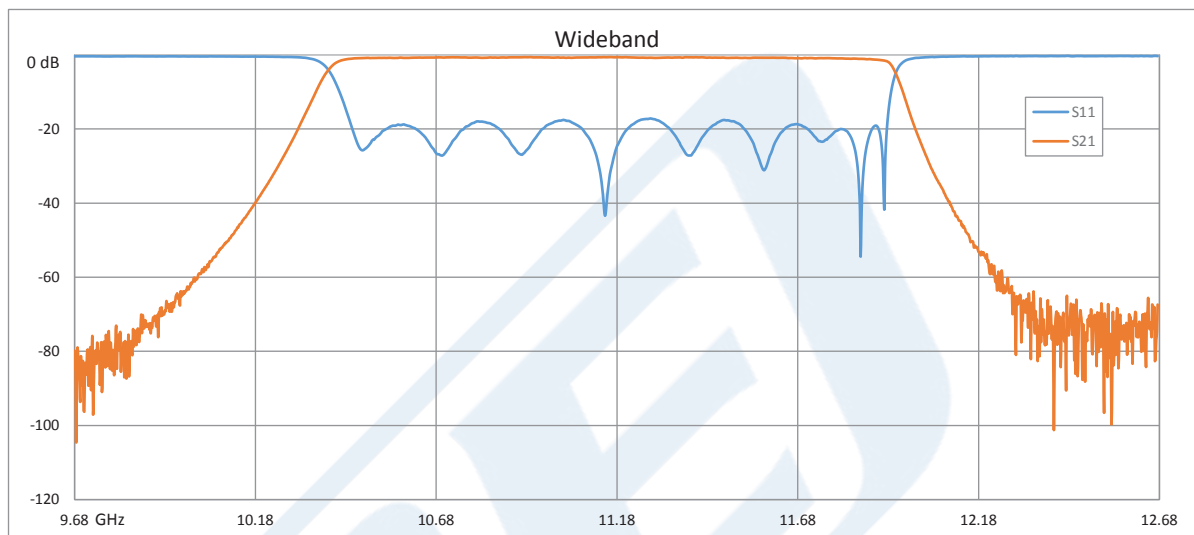
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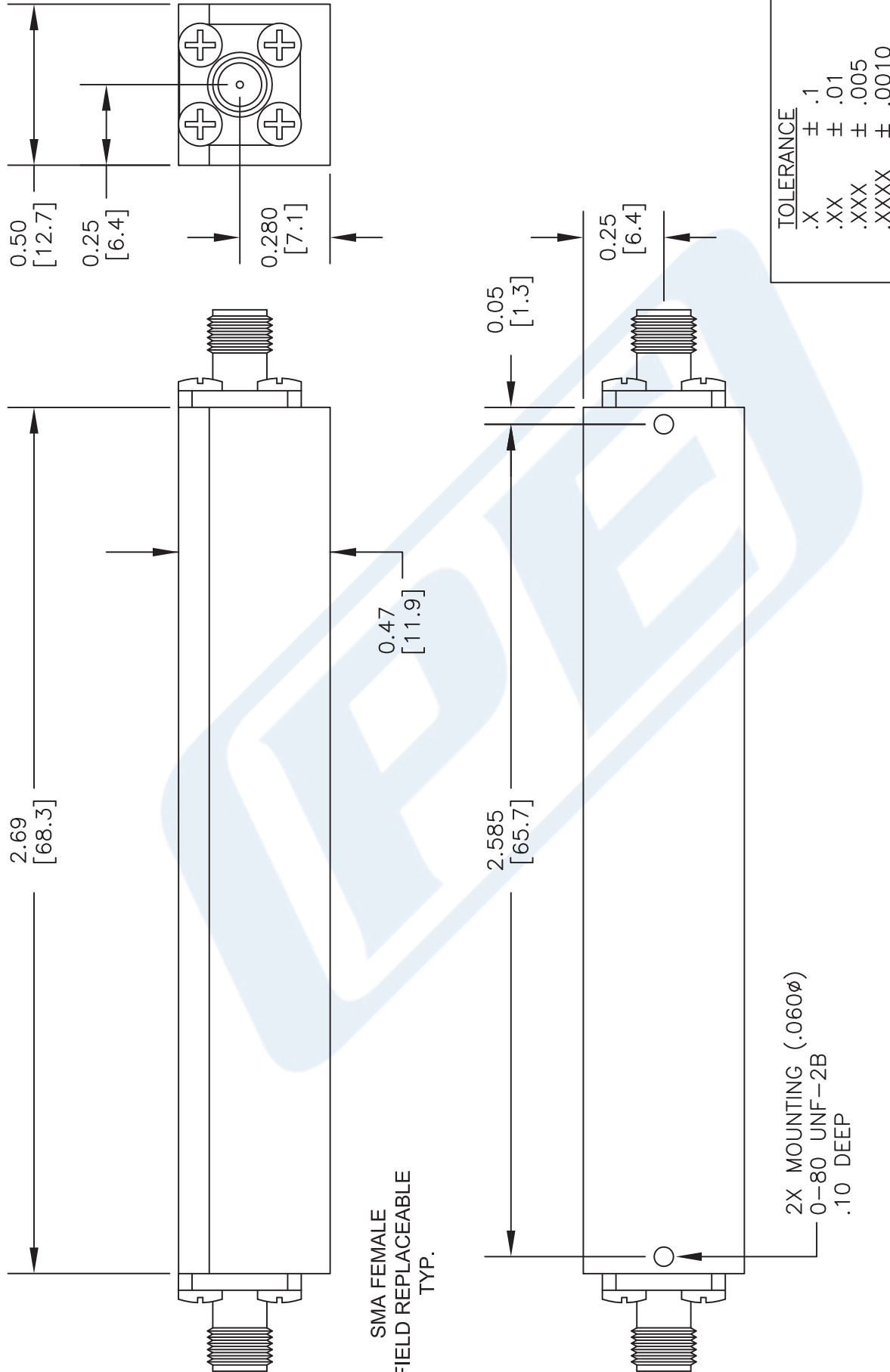
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

PE87FL1001 CAD Drawing

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* THESE DIMENSIONS AND TOLERANCES
SUPERSEDE NOTE #1 ON TITLE BLOCK.

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

PE87FL1001

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FSCM NO. 53919

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SIZE A

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