



Bandpass Filters Technical Data Sheet

PE87FL1005

Features

- Pass band of 800 MHz
- 14 GHz to 14.8 GHz
- Six section
- Combline filter design

- 50 dB rejection at 12.85 GHz and 15.95 GHz (1.55 GHz from band center)
- Typical insertion loss of 1.5 dB
- Female SMA connectors

Applications

· Satellite communications

Description

The PE87FL1005 is a six section band pass filter. It is part of a family of filters that is useful for satellite communications. The pass band is 800 MHz wide, from 14 GHz to 14.8 GHz. Implemented using a Combline design, the filter has excellent rejection of 50 dB at 12.85 GHz and 15.95 GHz, or ±1.55 GHz from mid band. It has a maximum insertion loss of 1.5 dB. The PE87FL1005 has SMA female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Passband Frequency	14		14.8	GHz
Impedance		50		Ohms
Insertion Loss			1.5	dB
Passband VSWR		1.4:1		
Rejection at 12.85 GHz	50			dB
Rejection at 15.95 GHz	50			dB
Input Power, CW			2	Watts

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

Mechanical Specifications

Size

 Length
 1.85 in [46.99 mm]

 Width
 0.5 in [12.7 mm]

 Height
 0.47 in [11.94 mm]

Configuration

Design Combline

Number of Sections6Package StyleConnectorizedConnector 1SMA FemaleConnector 2SMA FemaleConnector OptionField Replaceable

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 14 GHz to 14.8 GHz With a 800 MHz Passband PE87FL1005

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

RoHS Compliant REACH Compliant

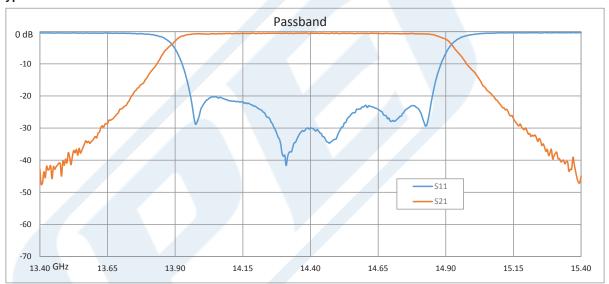
06/14/2014

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

Typical Performance Data



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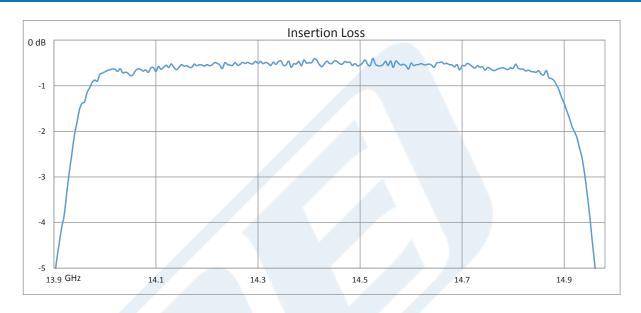






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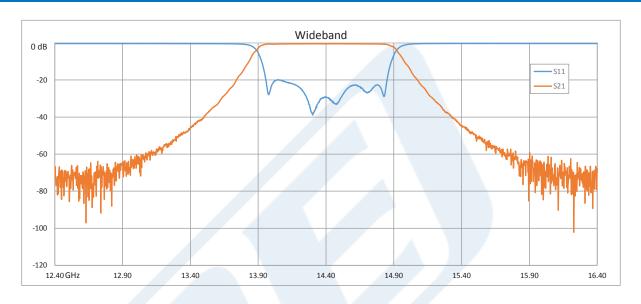
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6 Section Bandpass Filter With SMA Female Connectors Operating From 14 GHz to 14.8 GHz With a 800 MHz Passband from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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 14 GHz to 14.8 GHz With a 800 MHz Passband PE87FL1005

URL: http://www.pasternack.com/6-section-band-pass-filter-14-14.8-ghz-passband-800-mhz-pe87fl1005-p.aspx

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.



PE87FL1005 CAD Drawing
6 Section Bandpass Filter With SMA Female Connectors Operating From 14 GHz to 14.8 GHz With a 800 MHz Passband

