

11 Section Bandpass Filter With SMA Female Connectors Operating From 1 GHz to 2 GHz With a 1,000 MHz Passband



# **Bandpass Filters Technical Data Sheet**

## PE87FL1012

#### **Features**

- Pass band of 1000 MHz
- 1 GHz to 2 GHz
- Eleven section
- Combline filter design

#### Applications

Satellite communications

- 55 dB rejection at 650 MHz and 3 GHz (1.5 GHz from band center)
- Typical insertion loss of 1.5 dB
- Female SMA connectors

#### Description

The PE87FL1012 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 1000 MHz wide, from 1 GHz to 2 GHz. Implemented using a Combline design, the filter has excellent rejection of 55 dB at 650 MHz and 3 GHz, or ±1.5 GHz from mid band. It has a maximum insertion loss of 2 dB. The PE87FL1012 has SMA female connectors.

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Passband Frequency	1		2	GHz
Impedance		50		Ohms
Insertion Loss			1.5	dB
Passband VSWR		1.7:1		
Rejection at 650 MHz	55			dB
Rejection at 3 GHz	55			dB
Input Power, CW			2	Watts

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

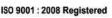
#### Mechanical Specifications

Size Length Width Height	1.6 in [40.64 mm] 0.55 in [13.97 mm] 0.44 in [11.18 mm]
Configuration Design Number of Sections Package Style Connector 1 Connector 2 Connector Option	Combline 11 Connectorized SMA Female SMA Female 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 1 GHz to 2 GHz With a 1,000 MHz Passband PE87FL1012

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

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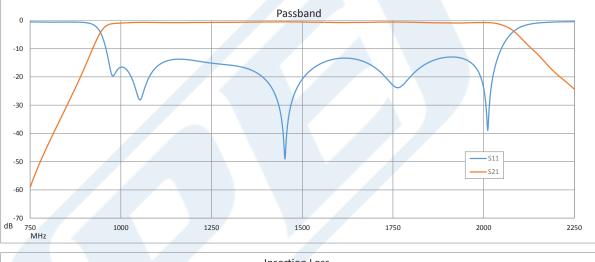
### Compliance Certifications (visit www.Pasternack.com for current document) **RoHS** Compliant

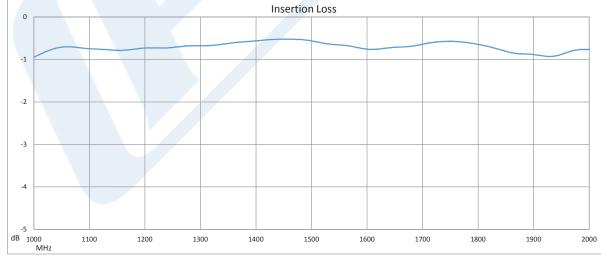
#### **Plotted and Other Data**

Notes:

• Values at 25°C, sea level.

#### **Typical Performance Data**





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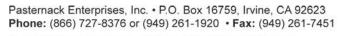
#### Wide Band 20 0 -20 s21 -40 -60 -80 -100 -120 -140 dB 510 1010 1510 2010 2510 3010 3510 <sup>10</sup>MHz

# 11 Section Bandpass Filter With SMA Female Connectors Operating From 1 GHz to 2 GHz With a 1,000 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: 11 Section Bandpass Filter With SMA Female Connectors Operating From 1 GHz to 2 GHz With a 1,000 MHz Passband PE87FL1012

URL: http://www.pasternack.com/11-section-band-pass-filter-1-2-ghz-passband-1000-mhz-pe87fl1012-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.



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# PE87FL1012

4010

PE87FL1012 CAD Drawing 11 Section Bandpass Filter With SMA Female Connectors Operating From 1 GHz to 2 GHz With a 1,000 MHz Passband

