



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
- Combine filter design
- 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

Applications

- Satellite communications

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 Combine 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	1.6 in [40.64 mm]
Width	0.55 in [13.97 mm]
Height	0.44 in [11.18 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 1 GHz to 2 GHz With a 1,000 MHz Passband PE87FL1012](#)



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

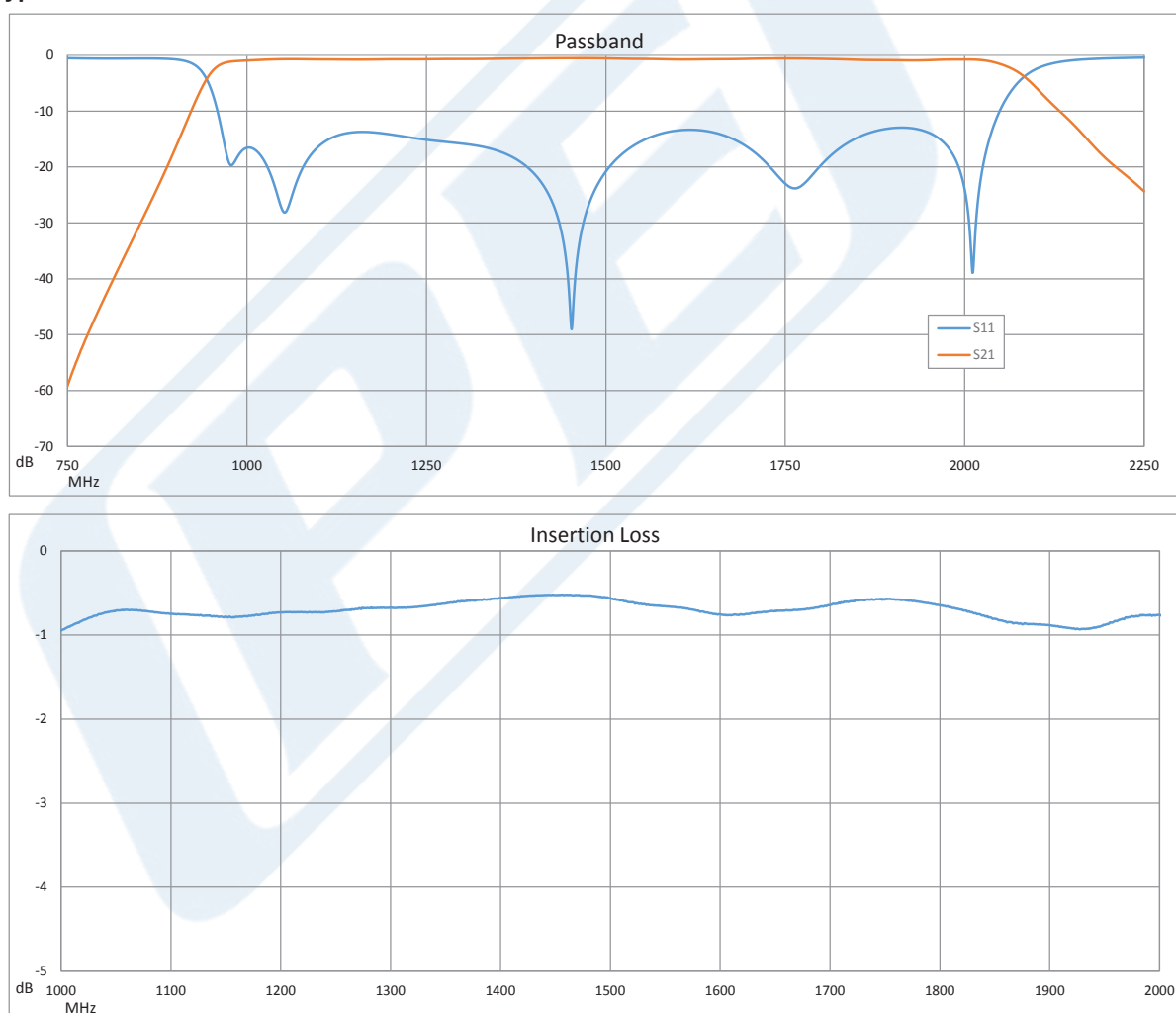
RoHS Compliant

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Typical Performance Data



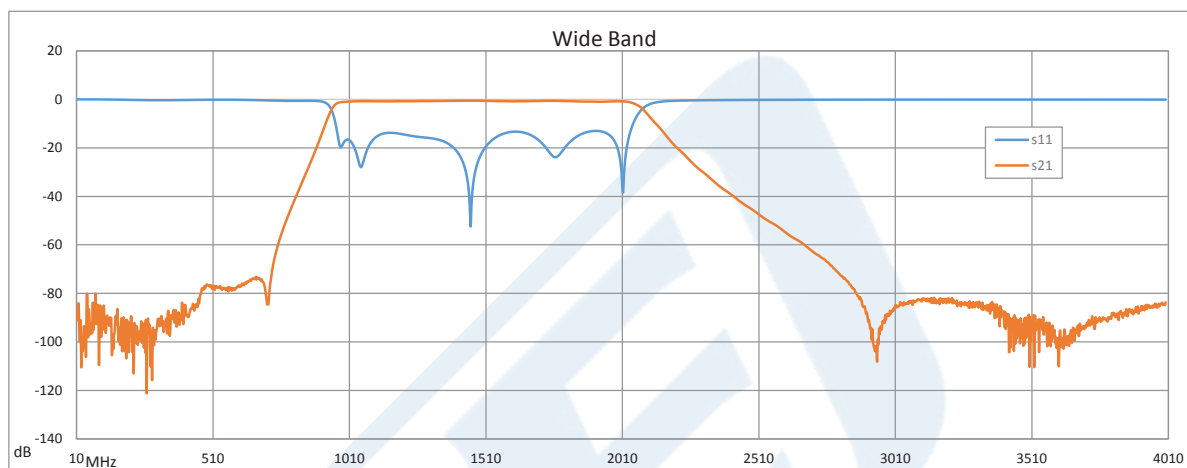
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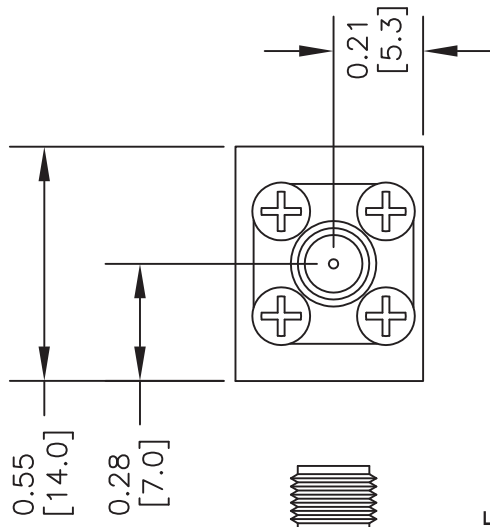
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [11 Section Bandpass Filter With SMA Female Connectors Operating From 1 GHz to 2 GHz With a 1,000 MHz Passband PE87FL1012](http://www.pasternack.com/11-section-band-pass-filter-1-2-ghz-passband-1000-mhz-pe87fl1012-p.aspx)

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

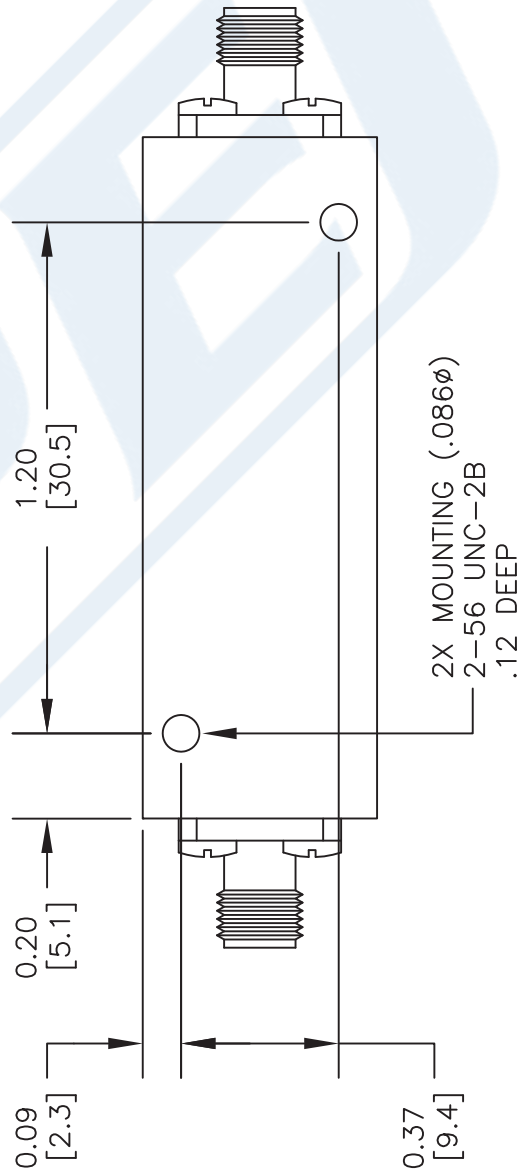
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PE87FL1012 CAD Drawing

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



SMA FEMALE
FIELD REPLACEABLE
TYP.



TOLERANCE	
.X	± .1
.XX	± .01
.XXX	± .005
.XXXX	± .0010

* 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

PE87FL1012

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THE ENGINEER'S RF SOURCE

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CAD FILE

110215

SCALE N/A

SIZE A

2233