



8 Section Bandpass Filter With SMA Female Connectors Operating From 9.9 GHz to 10.8 GHz With a 900 MHz Passband

Bandpass Filters Technical Data Sheet

PE87FL1000

Features

- Pass band of 900 MHz
- 9.9 GHz to 10.8 GHz
- Eight section
- Combine filter design
- 50 dB rejection at 8.35 GHz and 12.35 GHz (1.55 GHz from band center)
- Typical insertion loss of 1 dB
- Female SMA connectors

Applications

- Satellite communications

Description

The PE87FL1000 is an eight section band pass filter. It is part of a family of filters that is useful for satellite communications. The pass band is 900 MHz wide, from 9.9 GHz to 10.8 GHz. Implemented using a Combine design, the filter has excellent rejection of 50 dB at 8.35 GHz and 12.35 GHz, or ± 2 GHz from mid band. It has a maximum insertion loss of 1 dB. The PE87FL1000 has SMA female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Passband Frequency	9.9		10.8	GHz
Impedance		50		Ohms
Insertion Loss			1	dB
Passband VSWR		1.4:1		
Rejection at 8.35 GHz	50			dB
Rejection at 12.35 GHz	50			dB
Input Power, CW			2	Watts

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

Mechanical Specifications

Size

Length	2.07 in [52.58 mm]
Width	0.5 in [12.7 mm]
Height	0.47 in [11.94 mm]

Configuration

Design	Combine
Number of Sections	8
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: [8 Section Bandpass Filter With SMA Female Connectors Operating From 9.9 GHz to 10.8 GHz With a 900 MHz Passband PE87FL1000](#)



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

RoHS Compliant
REACH Compliant

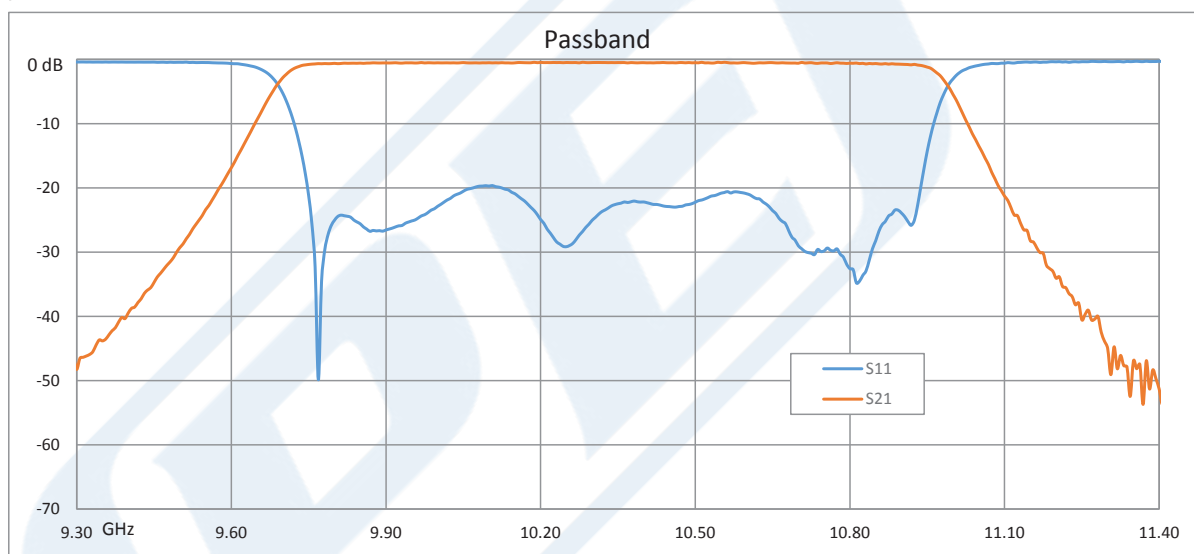
06/14/2014

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Typical Performance Data



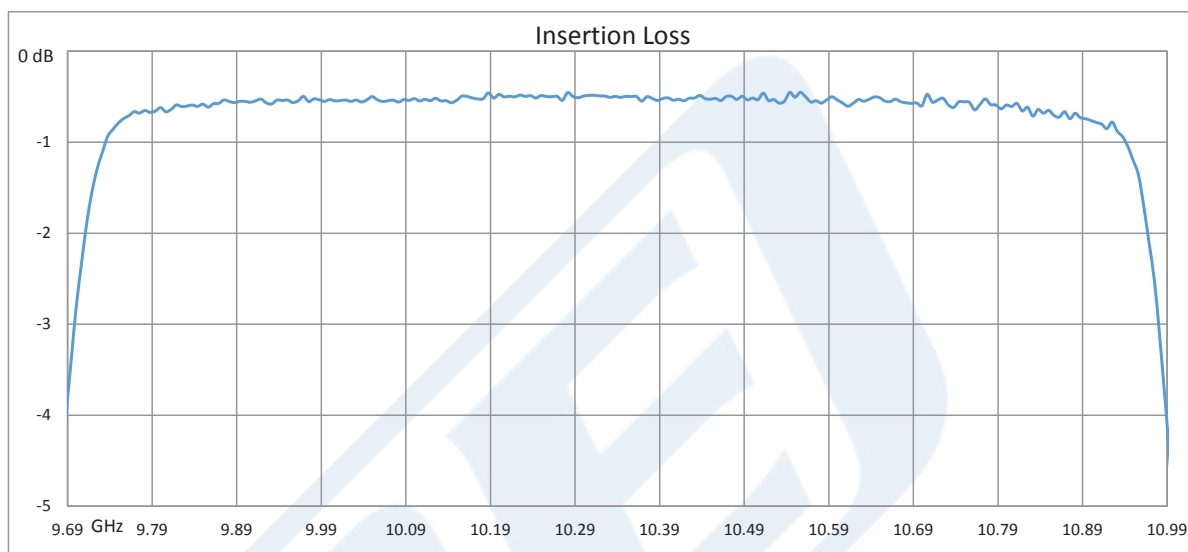
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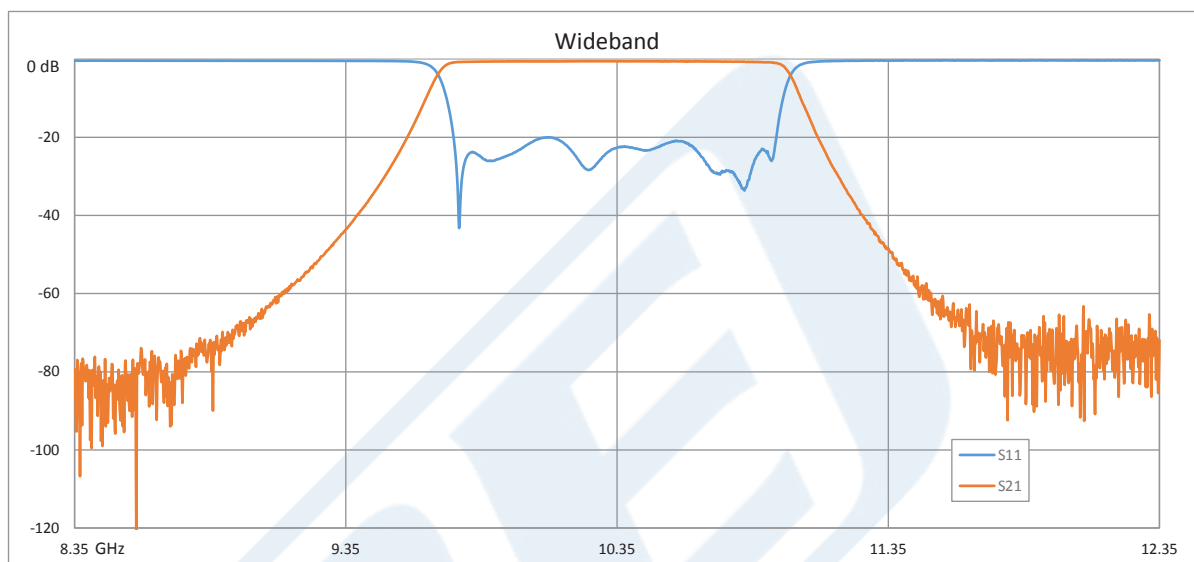
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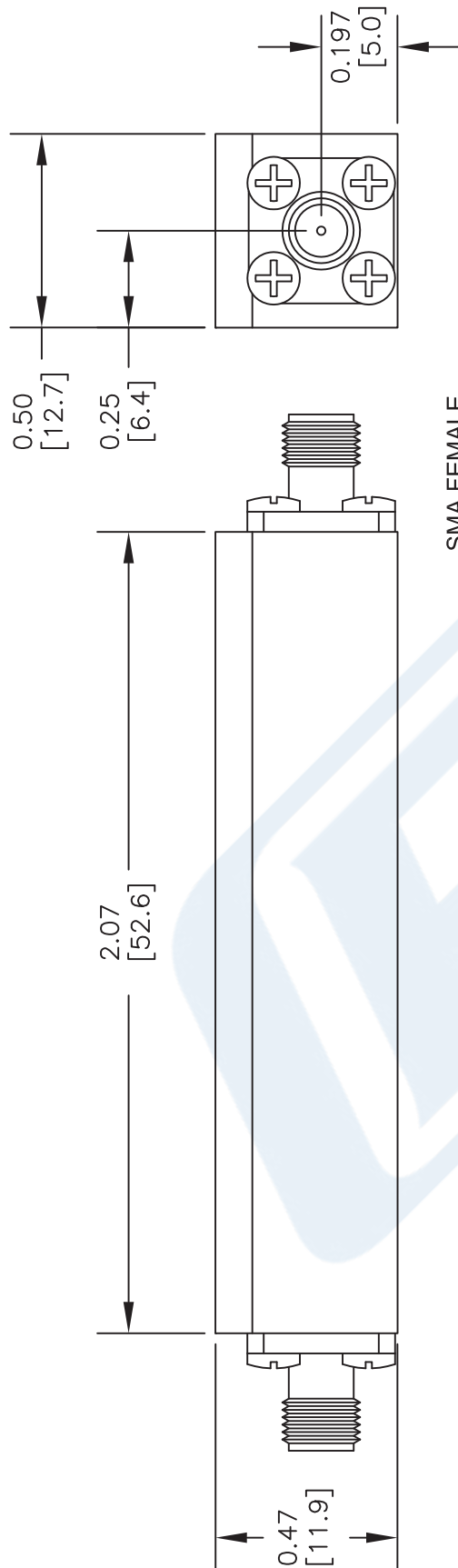
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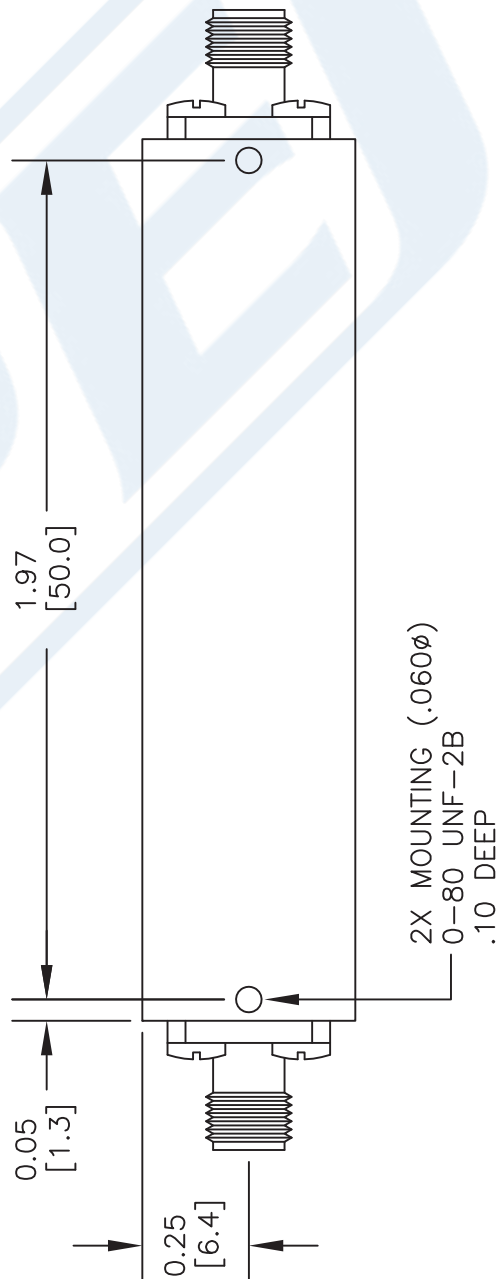
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PE87FL1000 CAD Drawing

8 Section Bandpass Filter With SMA Female Connectors Operating
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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

PE87FL1000

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FSCM NO. 53919

CAD FILE

120415

SCALE N/A

SIZE A

2233