



8 Section Bandpass Filter With SMA Female Connectors Operating From 17.3 GHz to 18.1 GHz With a 800 MHz Passband

Bandpass Filters Technical Data Sheet

PE87FL1006

Features

- Pass band of 800 MHz
- 17.3 GHz to 18.1 GHz
- Eight section
- Combine filter design
- 50 dB rejection at 16.2 GHz and 19.2 GHz (1.5 GHz from band center)
- Typical insertion loss of 1.5 dB
- Female SMA connectors

Applications

- Satellite communications

Description

The PE87FL1006 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 800 MHz wide, from 17.3 GHz to 18.1 GHz. Implemented using a Combine design, the filter has excellent rejection of 50 dB at 16.2 GHz and 19.2 GHz, or ± 1.5 GHz from mid band. It has a maximum insertion loss of 1.5 dB. The PE87FL1006 has SMA female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Passband Frequency	17.3		18.1	GHz
Impedance		50		Ohms
Insertion Loss			1.5	dB
Passband VSWR		1.4:1		
Rejection at 16.2 GHz	50			dB
Rejection at 19.2 GHz	50			dB
Input Power, CW			2	Watts

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

Mechanical Specifications

Size

Length	1.86 in [47.24 mm]
Width	0.5 in [12.7 mm]
Height	0.4 in [10.16 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 17.3 GHz to 18.1 GHz With a 800 MHz Passband PE87FL1006](#)



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

RoHS Compliant
REACH Compliant

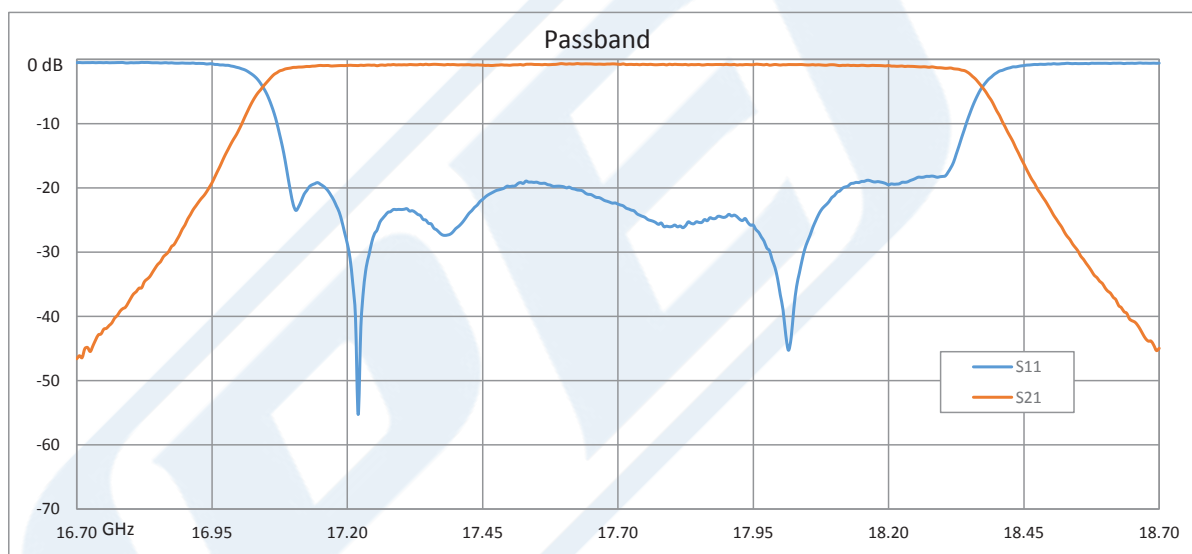
06/14/2014

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Typical Performance Data



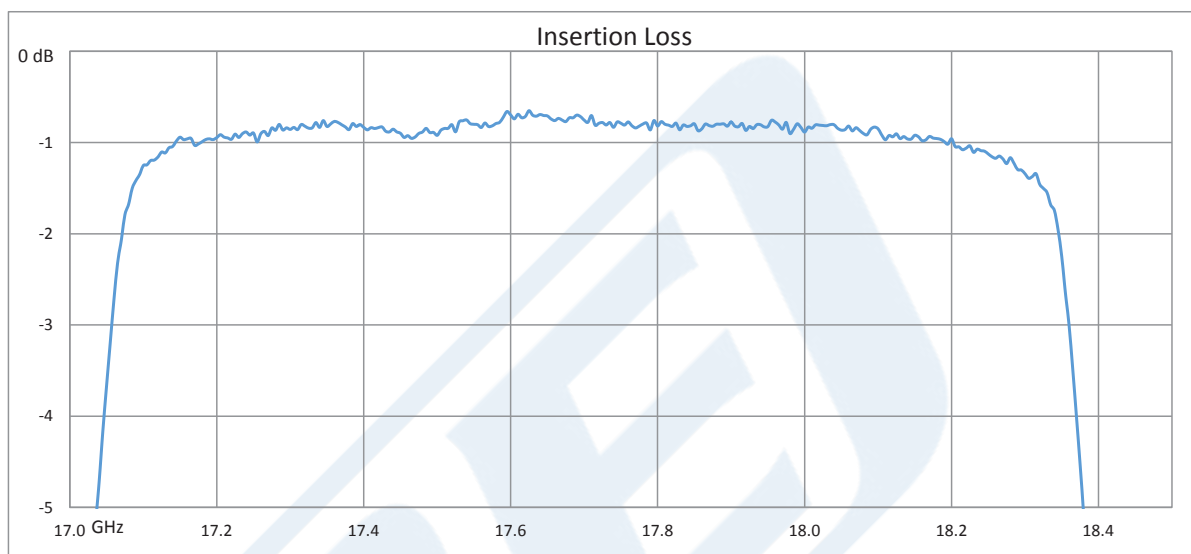
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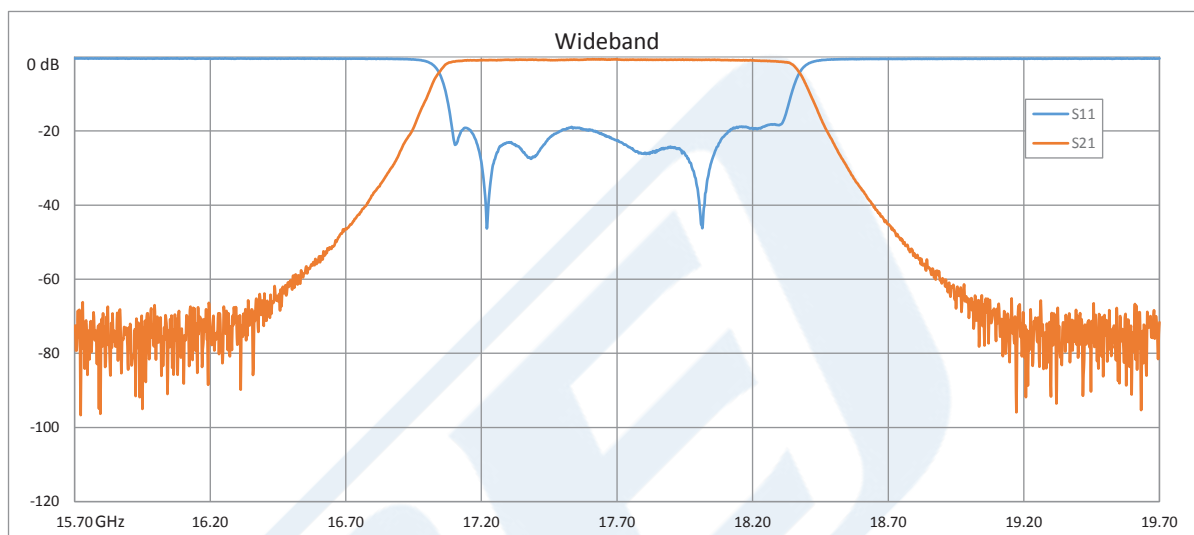
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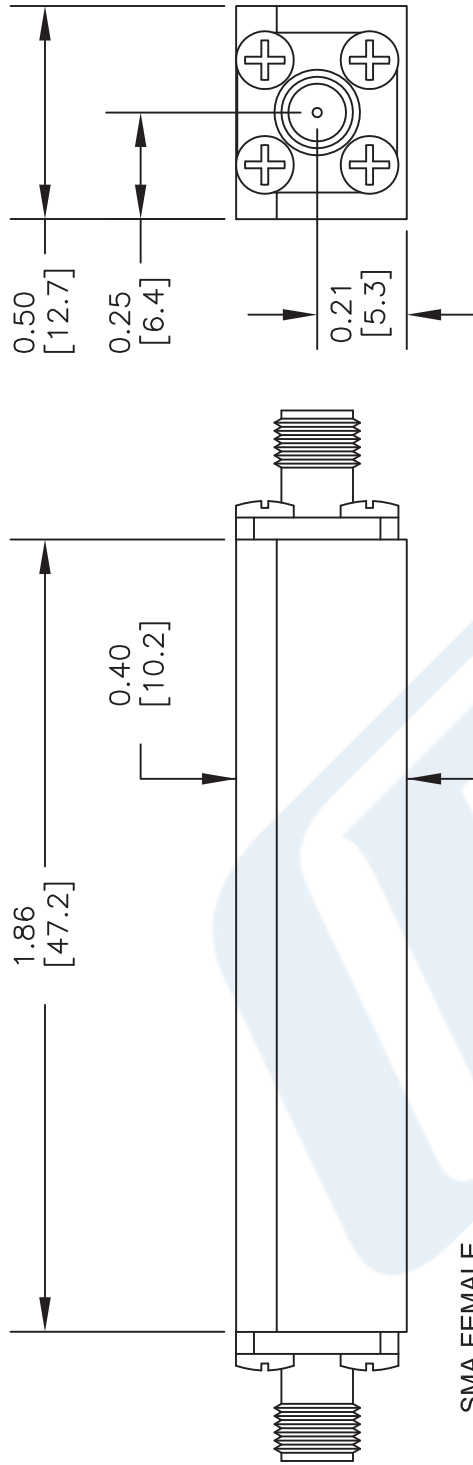
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URL: <http://www.pasternack.com/8-section-band-pass-filter-17.3-18.1-ghz-passband-800-mhz-pe87fl1006-p.aspx>

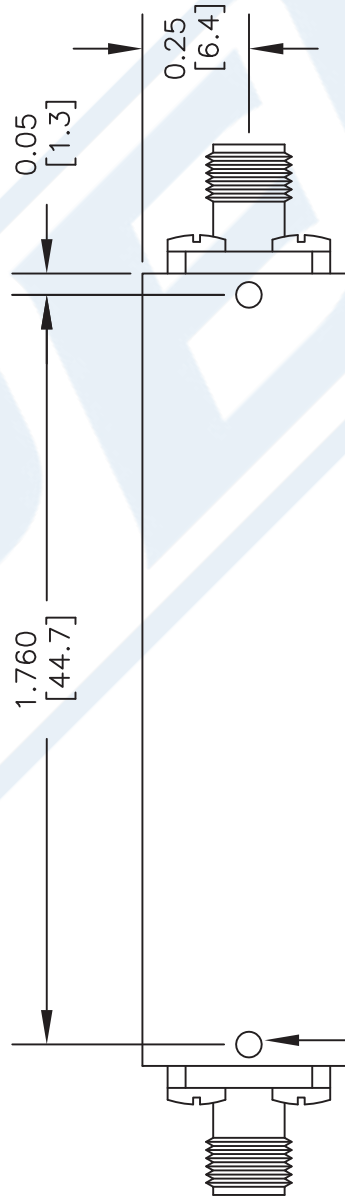
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PE87FL1006 CAD Drawing

8 Section Bandpass Filter With SMA Female Connectors Operating
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SMA FEMALE
FIELD REPLACEABLE
TYP.



2X MOUNTING (.060 ϕ)
0-80 UNF-2B
.10 DEEP

TOLERANCE	
.X	$\pm .1$
.XX	$\pm .01$
.XXX	$\pm .005$
.XXXX	$\pm .0010$

* 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

PE87FL1006

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FSCM NO. 53919

CAD FILE

120415

SCALE N/A

SIZE A

2233