



4 Section Bandpass Filter With SMA Female Connectors Operating From 1.85 GHz to 1.91 GHz With a 60 MHz Passband

Bandpass Filters Technical Data Sheet

PE8707

Features

- Pass band of 60 MHz
- 1.85 to 1.91 GHz
- Four section
- Combine filter design
- Minimum 50 dB rejection at 1.63 GHz and 2.13 GHz (about 220 MHz from band edge)
- Maximum insertion loss of 1.5 dB
- Female SMA connectors

Applications

- PCS

Description

The PE8707 is a four section band pass filter that is useful for filtering for PCS uses. The pass band is 60 MHz, or 1.85 to 1.91 GHz. Implementing a combine design, the filter has excellent minimum rejection of 50 dB at 1.63 GHz and 2.13 GHz, or about 220 MHz from the band edges. It has a maximum insertion loss of 1.5 dB. The PE8707 has SMA Female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Passband Frequency	1.85		1.91	GHz
Impedance		50		Ohms
Insertion Loss			1.5	dB
Passband VSWR		1.5:1		
Rejection at 1.63 GHz	50			dB
Rejection at 2.13 GHz	50			dB
Input Power, CW			5	Watts

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

Mechanical Specifications

Size

Length	2 in [50.8 mm]
Width	1.32 in [33.53 mm]
Height	0.53 in [13.46 mm]
Weight	0.13 lbs [58.97 g]

Configuration

Design	Combine
Number of Sections	4
Package Style	Connectorized Module
Connector 1	SMA Female
Connector 2	SMA Female

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4 Section Bandpass Filter With SMA Female Connectors Operating From 1.85 GHz to 1.91 GHz With a 60 MHz Passband PE8707](#)



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

RoHS Compliant

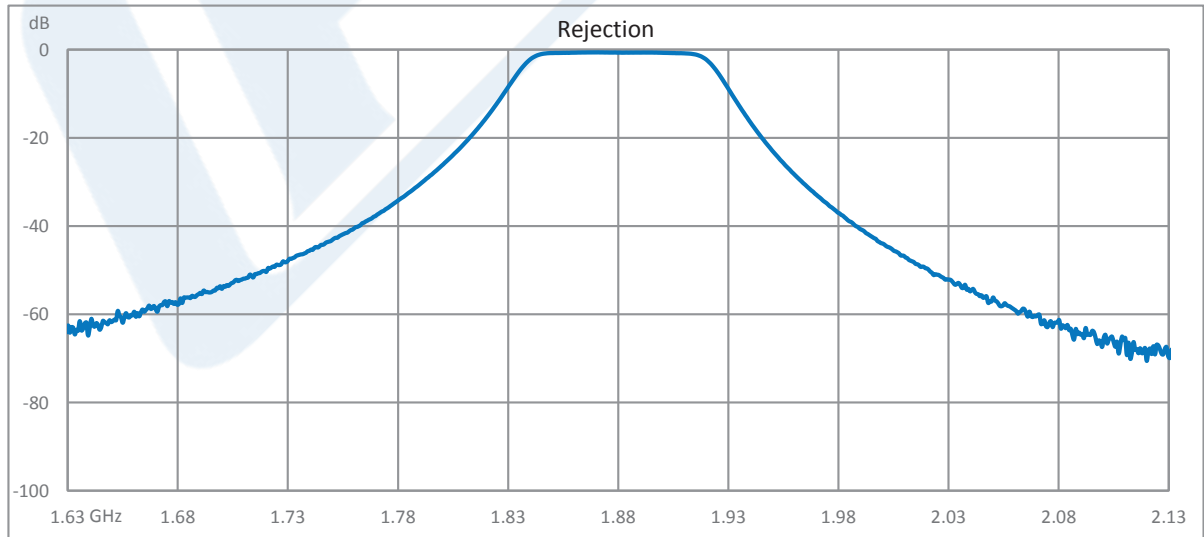
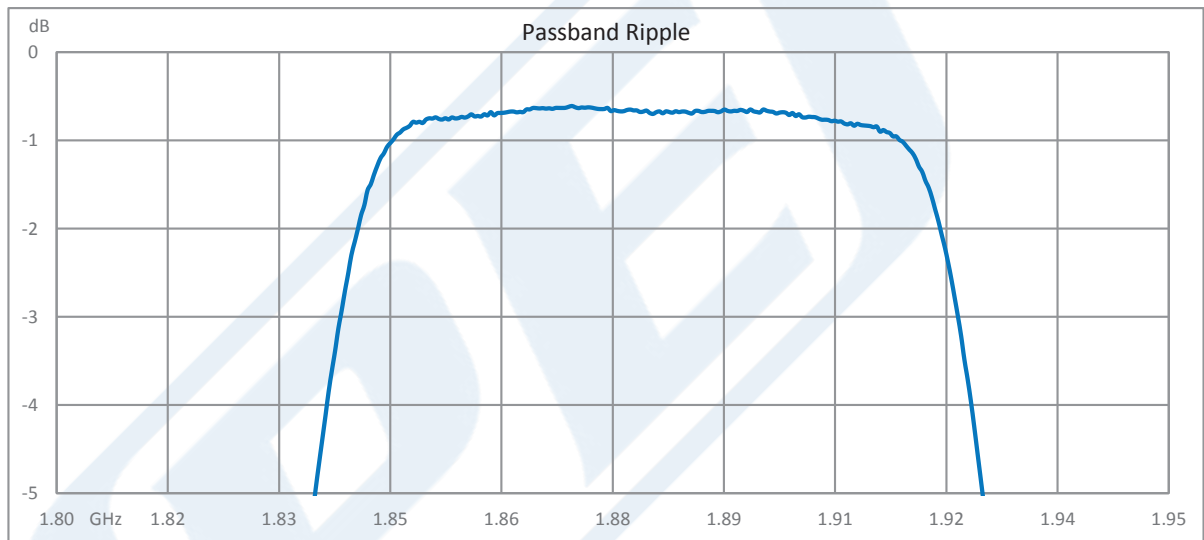
REACH Compliant

12/17/2015

Plotted and Other Data

Notes:

Typical Performance Data



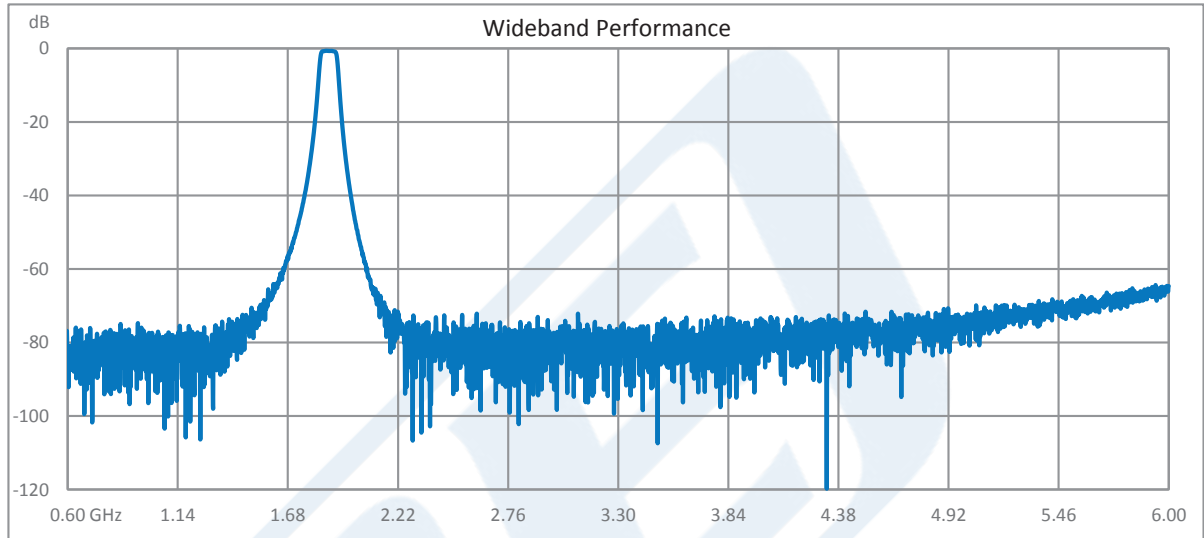
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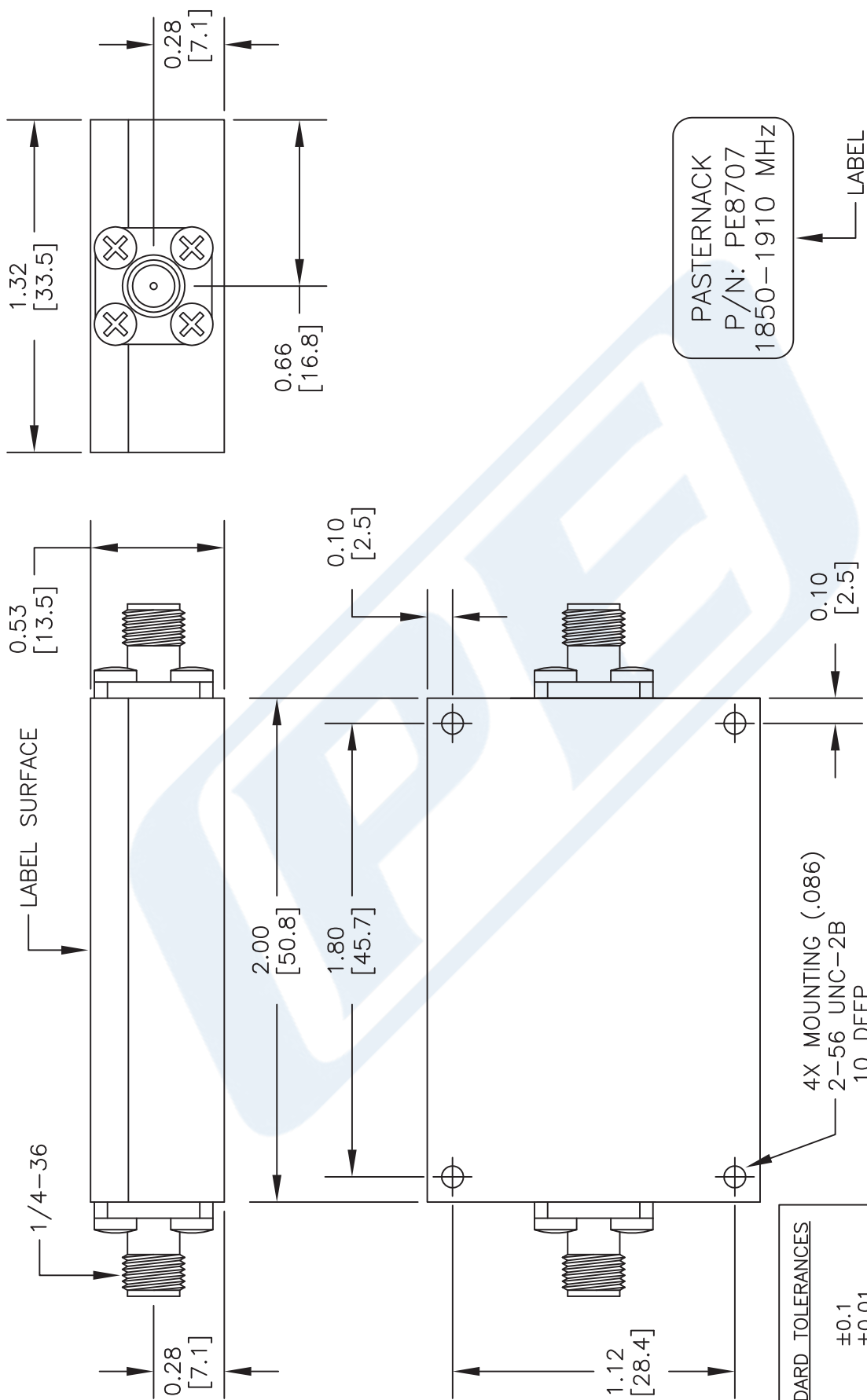
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

PE8707 CAD Drawing

4 Section Bandpass Filter With SMA Female Connectors Operating From 1.85 GHz to 1.91 GHz With a 60 MHz Passband



STANDARD TOLERANCES	
.X	±0.1
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].			
CAD FILE	030716	SCALE	N/A
SIZE	A		
			3045

DWG TITLE	PE8707
FSCM NO.	53919


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