



## 4 Section Bandpass Filter With SMA Female Connectors Operating From 1.217 GHz to 1.237 GHz With a 20 MHz Passband

### Bandpass Filters Technical Data Sheet

PE8704

#### Features

- Pass band of 20 MHz
- 1.217 GHz to 1.237 GHz
- Four section
- Combine filter design
- 50 dB rejection at 1.127 GHz and 1.327 GHz (about 90 MHz from band edge)
- Typical insertion loss of 1.3 dB
- Female SMA connectors

#### Applications

- GPS L2

#### Description

The PE8704 is a four section band pass filter that is useful for filtering for GPS L2 uses. The pass band is 20 MHz, or 1.217 to 1.237 GHz. Implementing a combine design, the filter has excellent rejection of 50 dB at 1.127 GHz and 1.327 GHz, or about 90 MHz from the band edges. It has a typical insertion loss of 1.3 dB. The PE8704 has SMA female connectors.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Passband Frequency	1.217		1.237	GHz
Impedance		50		Ohms
Insertion Loss		1.3		dB
Passband VSWR		1.5:1		
Rejection at 1.127 GHz	50			dB
Rejection at 1.327 GHz	50			dB
Input Power, CW			5	Watts

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

#### Mechanical Specifications

##### Size

Length	1.84 in [46.74 mm]
Width	2.14 in [54.36 mm]
Height	0.53 in [13.46 mm]
Weight	0.16 lbs [72.57 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 1.217 GHz to 1.237 GHz With a 20 MHz Passband PE8704](#)



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### Environmental Specifications

### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant

REACH Compliant

12/17/2014

### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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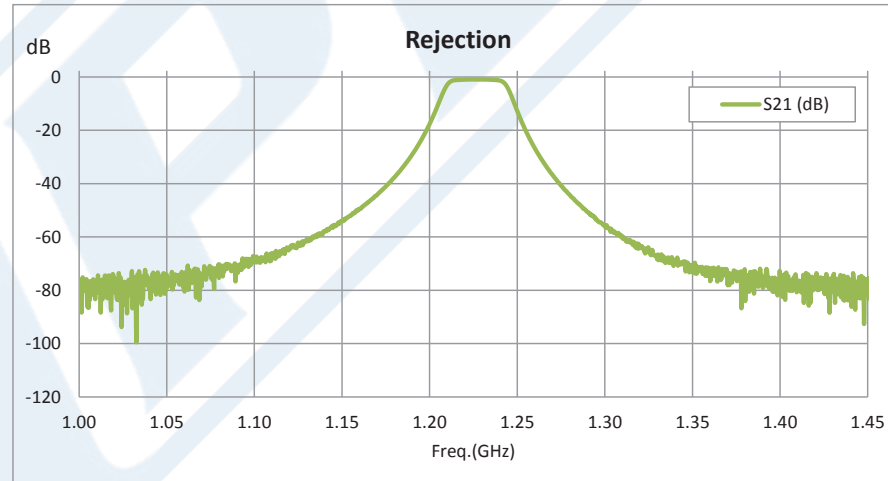
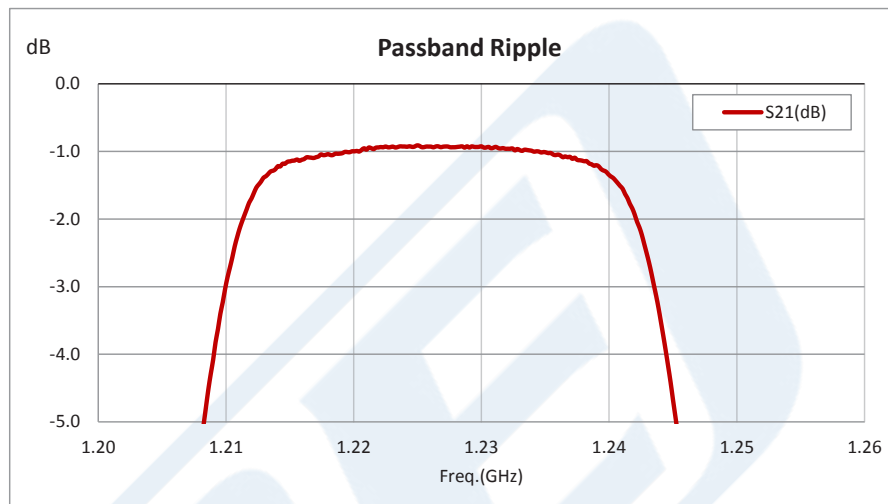


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Typical Performance Data



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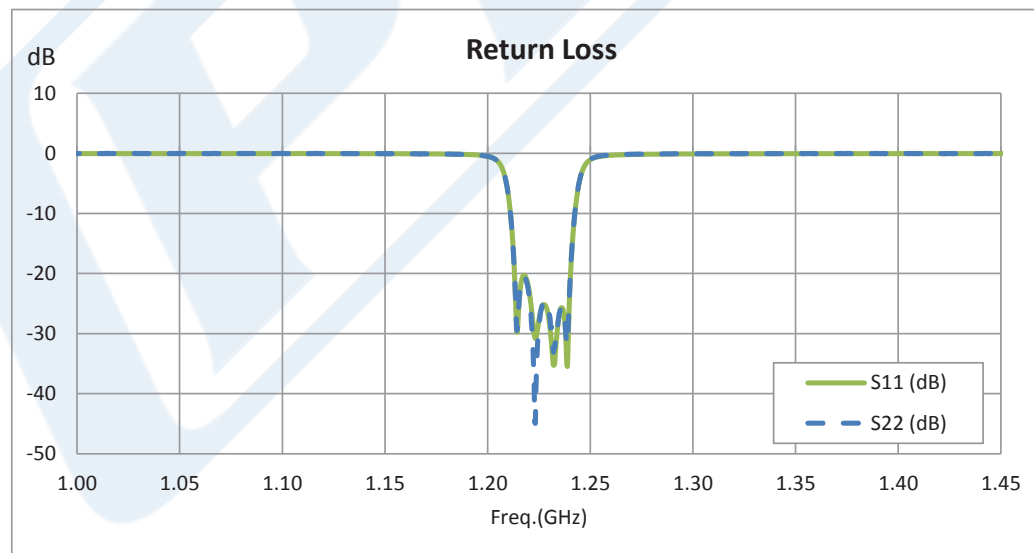
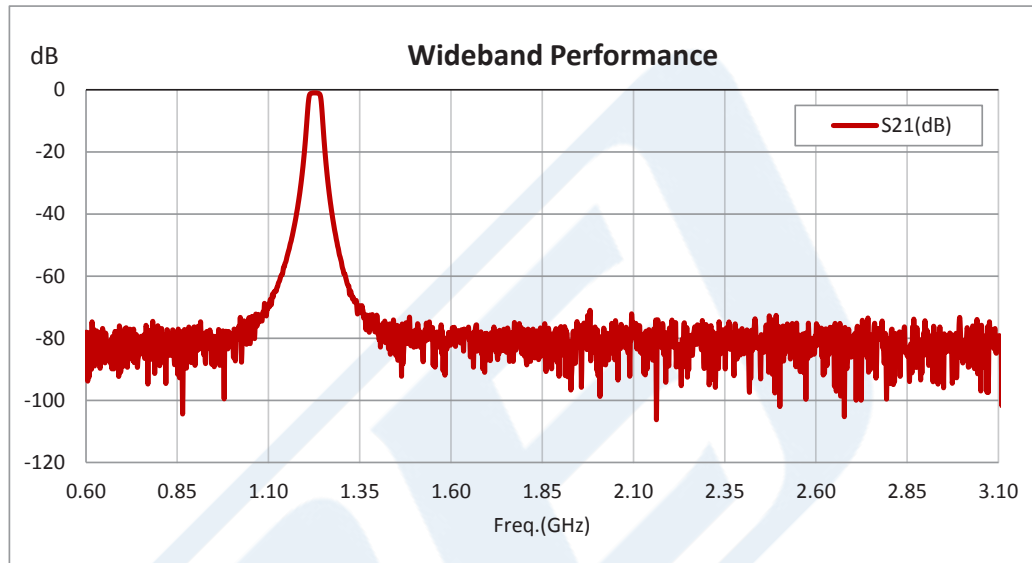




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4 Section Bandpass Filter With SMA Female Connectors Operating From 1.217 GHz to 1.237 GHz With a 20 MHz Passband from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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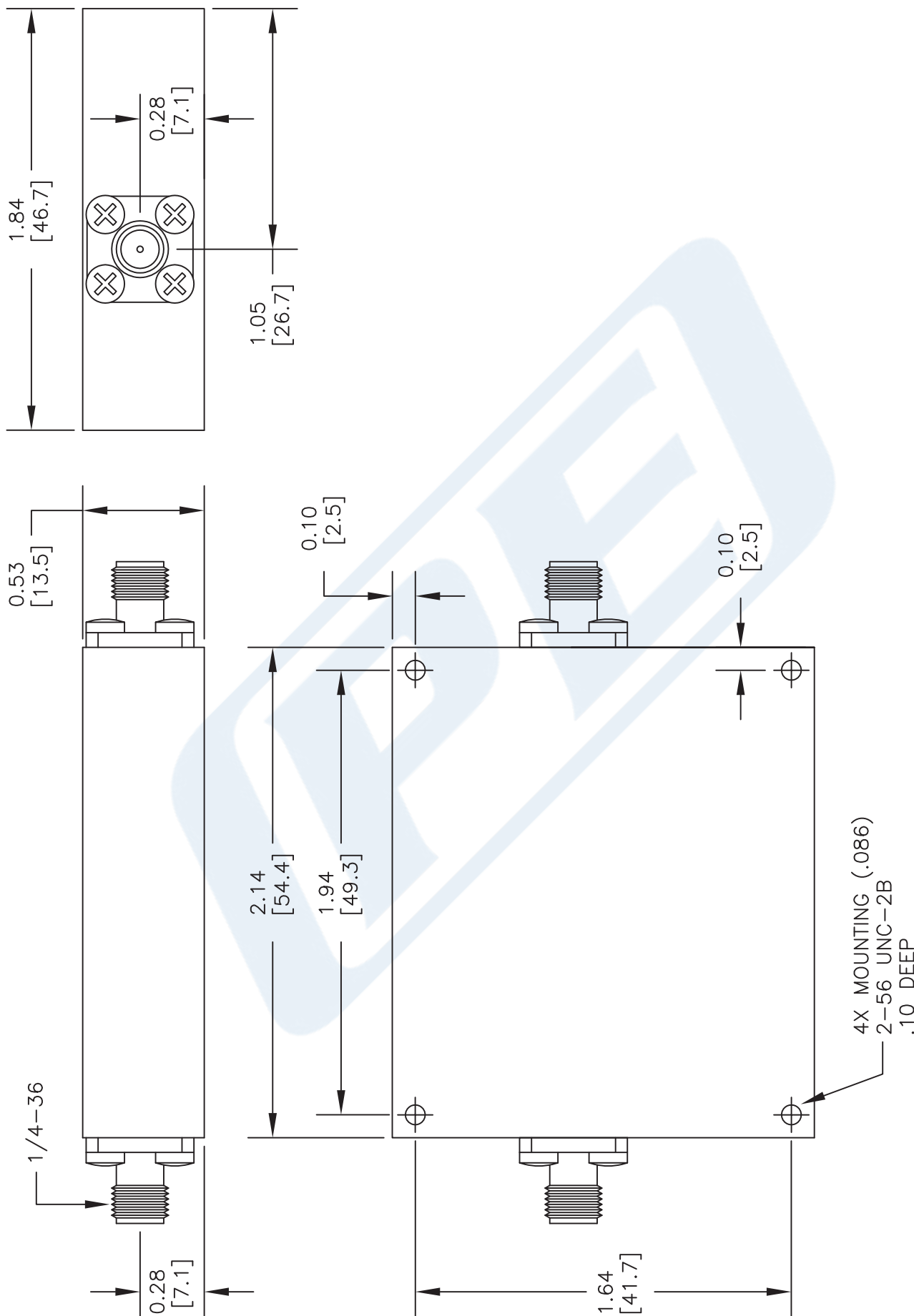
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

# PE8704 CAD Drawing

4 Section Bandpass Filter With SMA Female Connectors Operating  
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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  
**PE8704**

FSCM NO. 53919

2233

SIZE A

SCALE N/A

CAD FILE 041509

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