



## 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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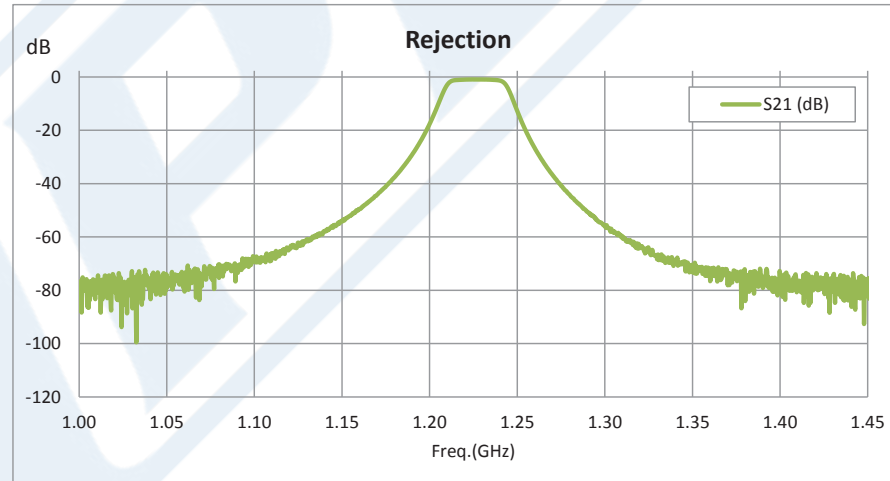
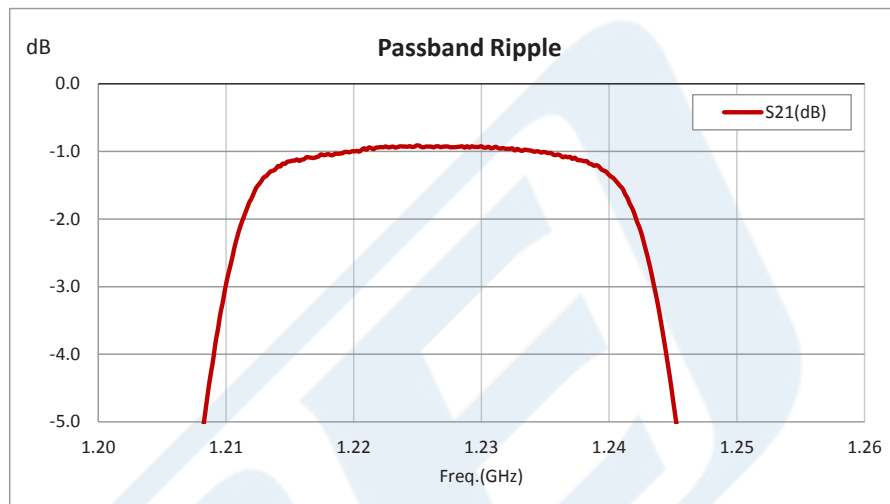


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Typical Performance Data



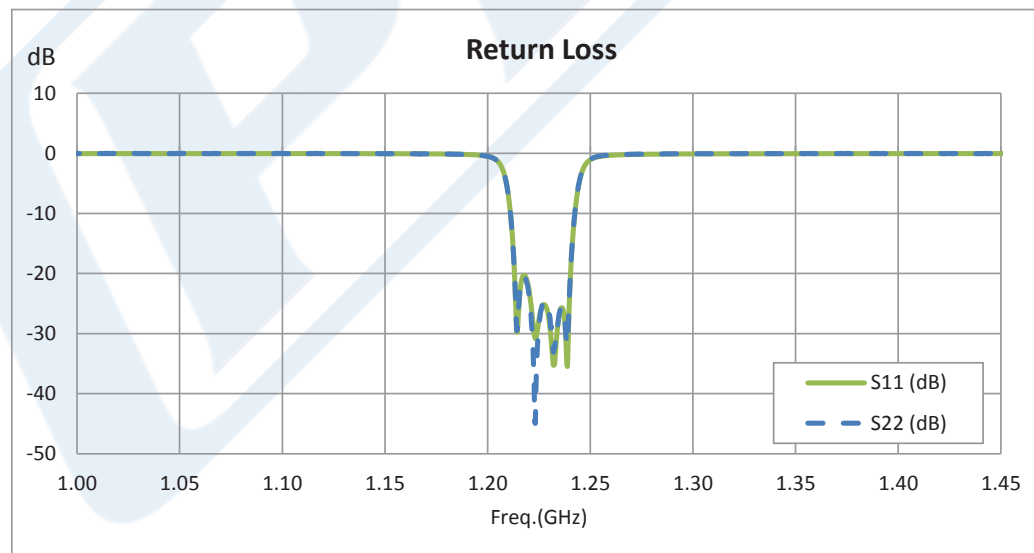
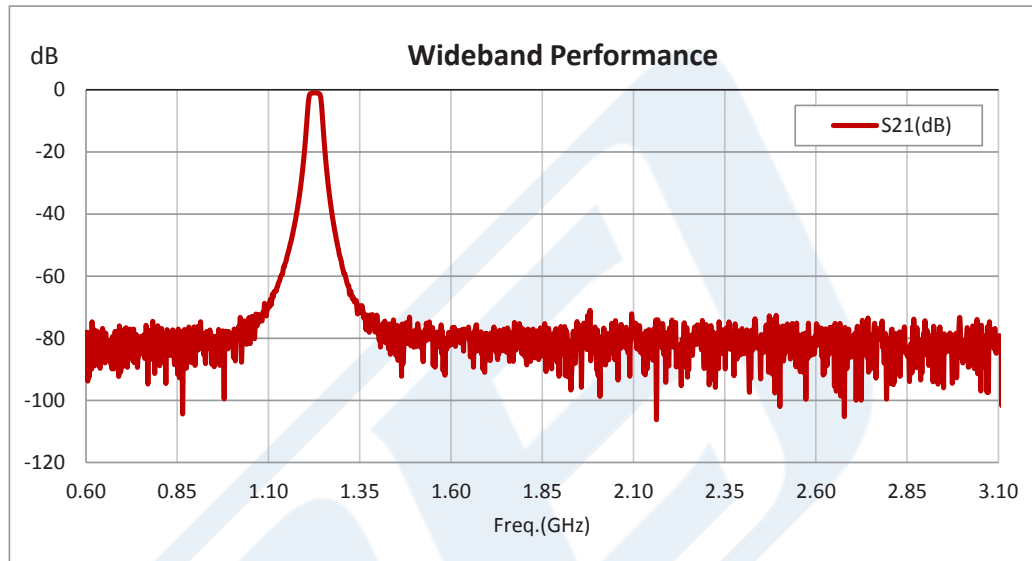
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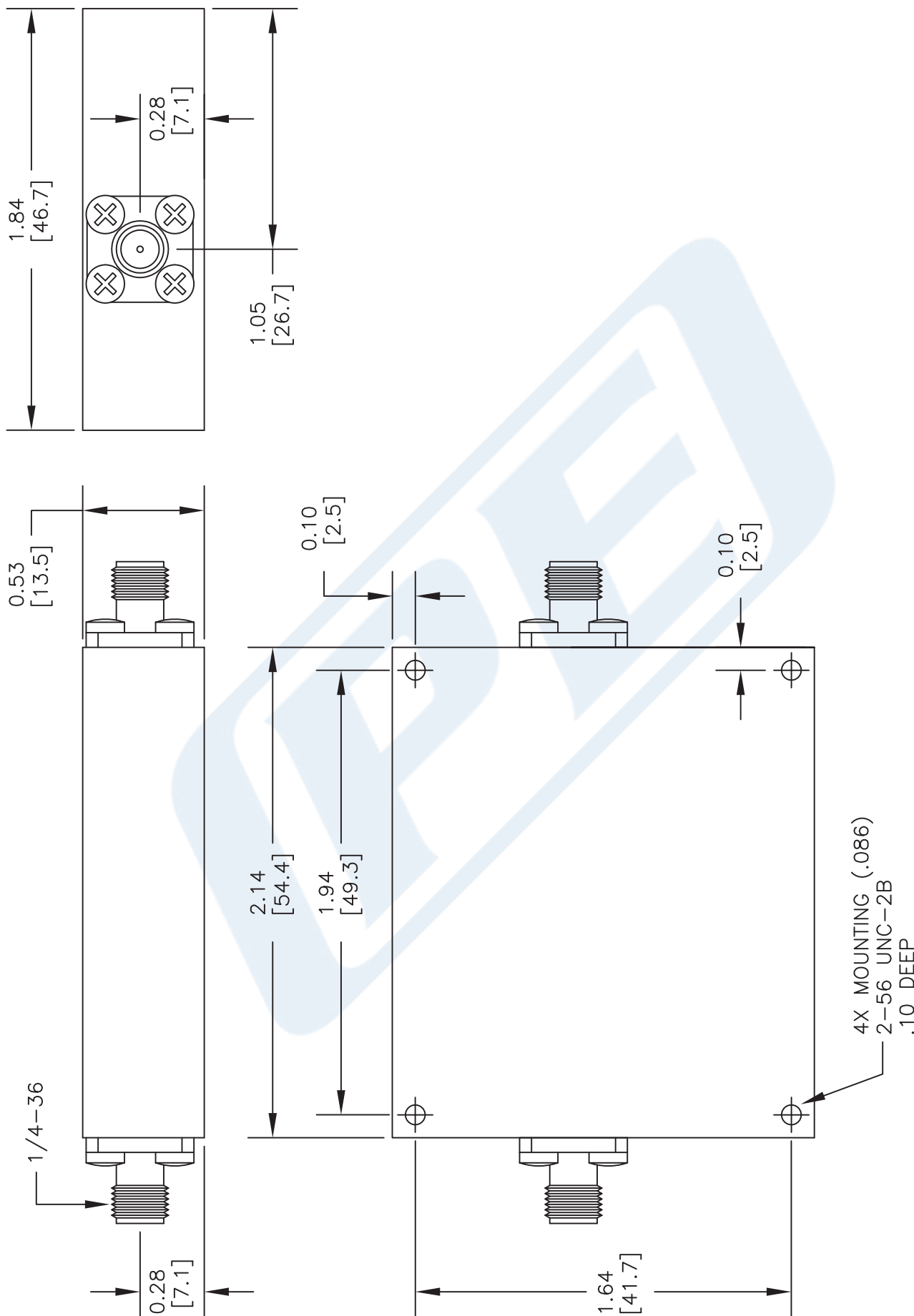
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# PE8704 CAD Drawing

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

SCALE N/A

SIZE A

CAD FILE 041509

2233

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