



## 4 Section Bandpass Filter With SMA Female Connectors Operating From 824 MHz to 849 MHz With a 25 MHz Passband

### Bandpass Filters Technical Data Sheet

PE8705

#### Features

- Pass band of 25 MHz
- 824 MHz to 849 MHz
- Four section
- Combine filter design
- 50 dB rejection at 736.5 MHz and 936.5 MHz (about 87.5 MHz from band edge)
- Maximum insertion loss of 1.5 dB
- Female SMA connectors

#### Applications

- GSM

#### Description

The PE8705 is a four section band pass filter that is useful for filtering for GSM uses. The pass band is 25 MHz, or 824 to 849 MHz. Implementing a combine design, the filter has excellent rejection of 50 dB at 736.5 MHz and 936.5 MHz, or about 87.5 MHz from the band edges. It has a maximum insertion loss of 1.5 dB. The PE8705 has SMA female connectors.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Passband Frequency	824		849	MHz
Impedance		50		Ohms
Insertion Loss			1.5	dB
Passband VSWR		1.5:1		
Rejection at 736.5 MHz	50			dB
Rejection at 936.5 MHz	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	2.5 in [63.5 mm]
Height	0.53 in [13.46 mm]

##### 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 824 MHz to 849 MHz With a 25 MHz Passband PE8705](#)



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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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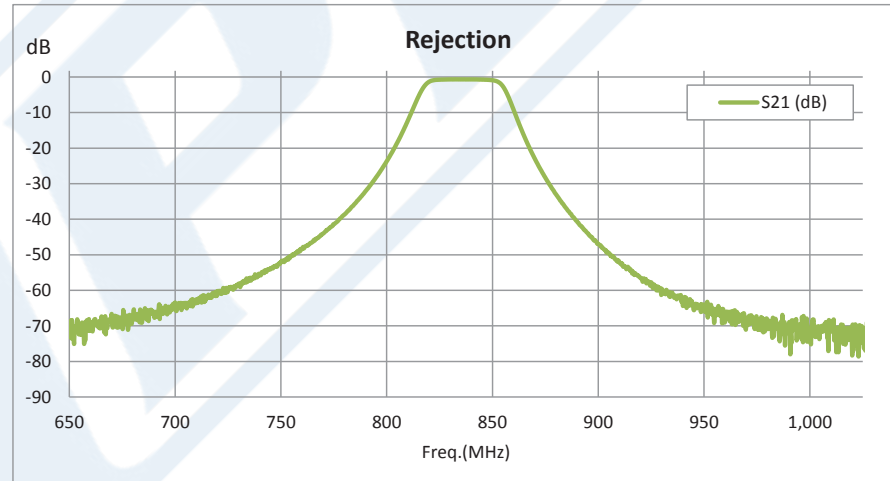
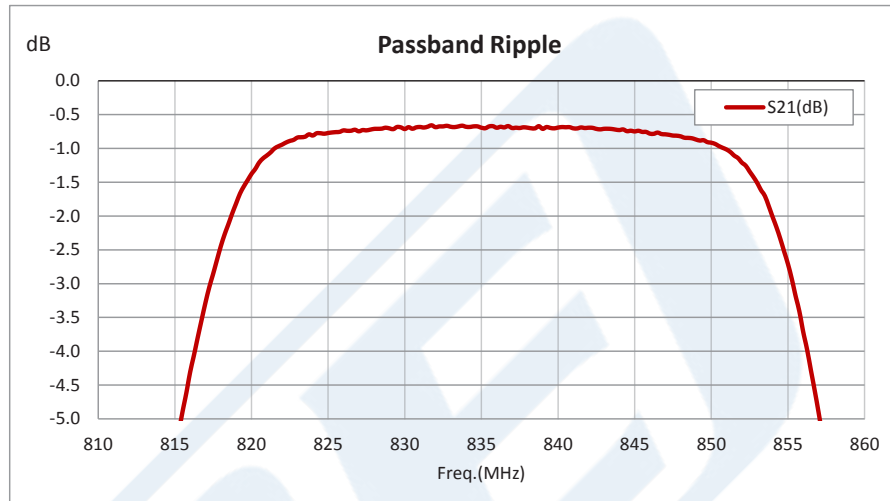


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Typical Performance Data



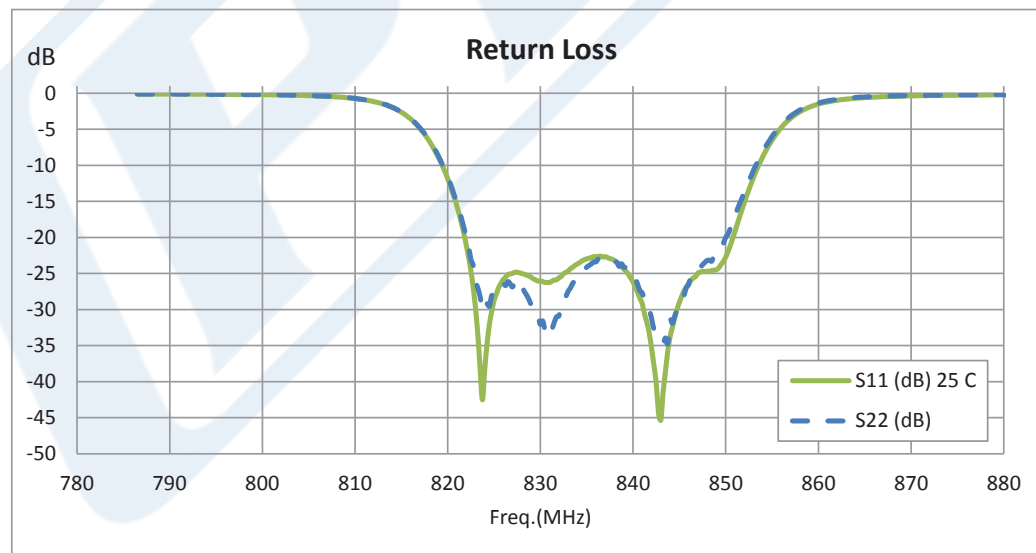
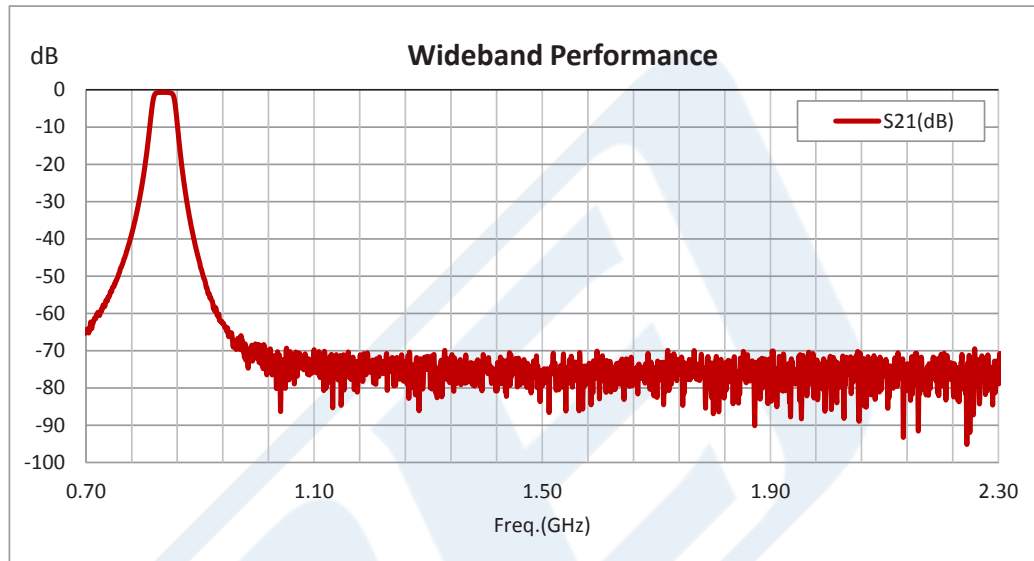
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4 Section Bandpass Filter With SMA Female Connectors Operating From 824 MHz to 849 MHz With a 25 MHz Passband from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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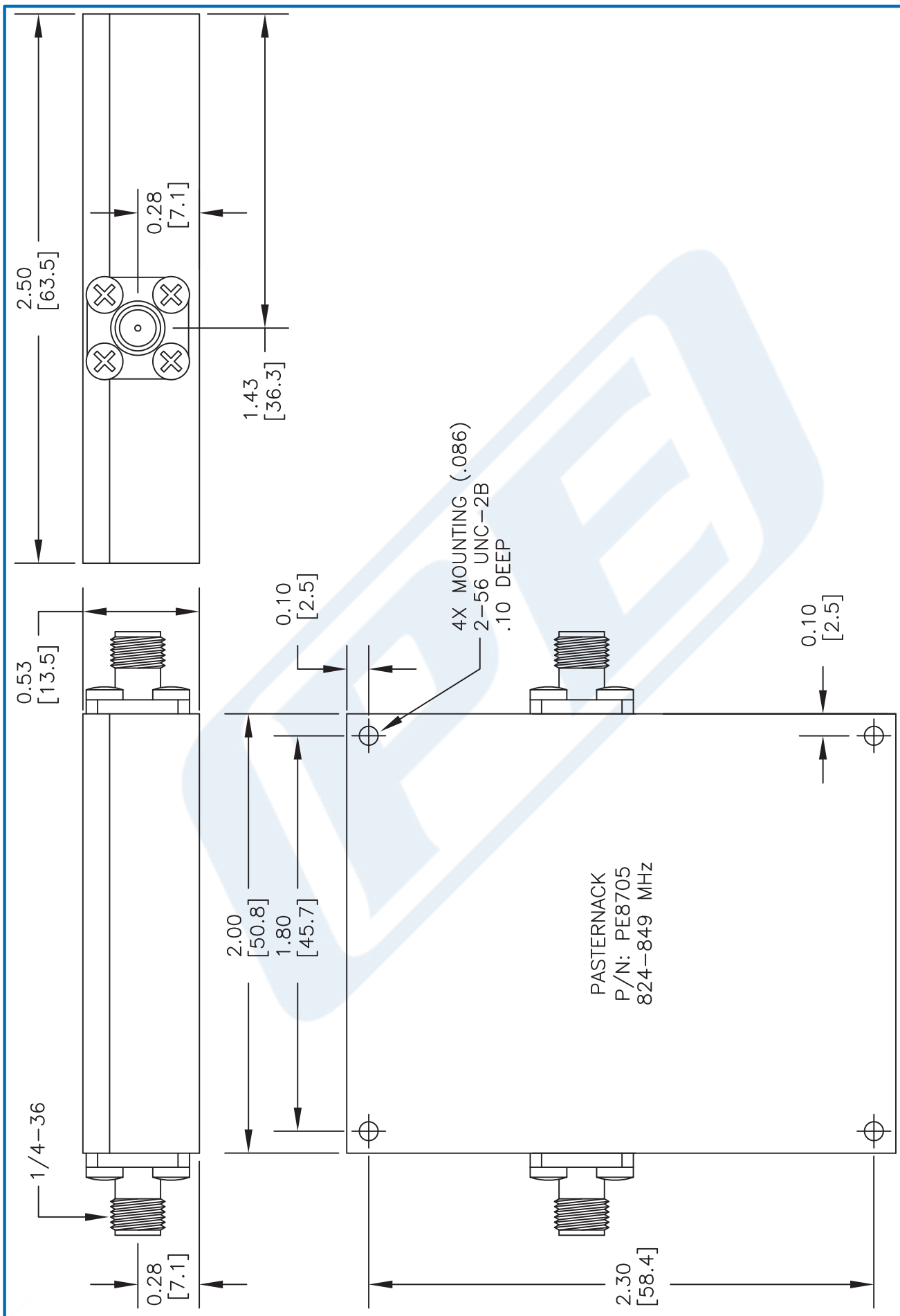
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# PE8705 CAD Drawing

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  
**PE8705**

FSCM NO. 53919

CAD FILE 101615

SCALE N/A

SIZE A

150

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THE ENGINEER'S RF SOURCE

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