



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](#)

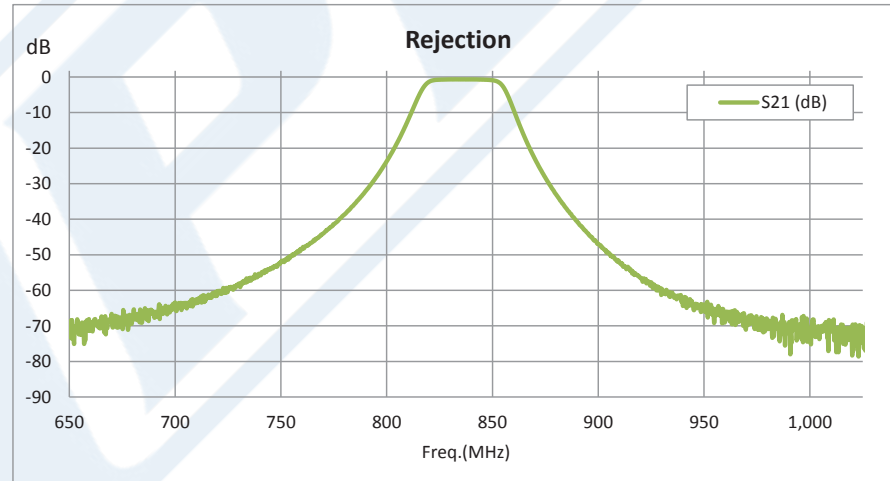
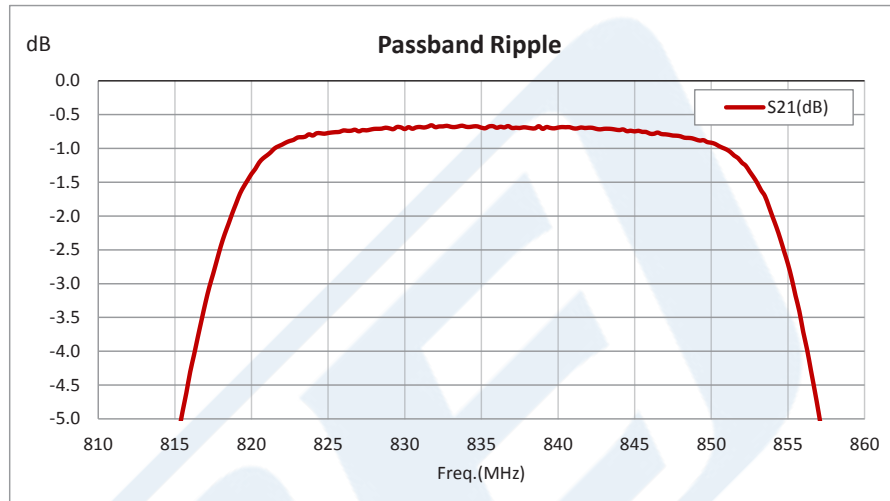


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Typical Performance Data



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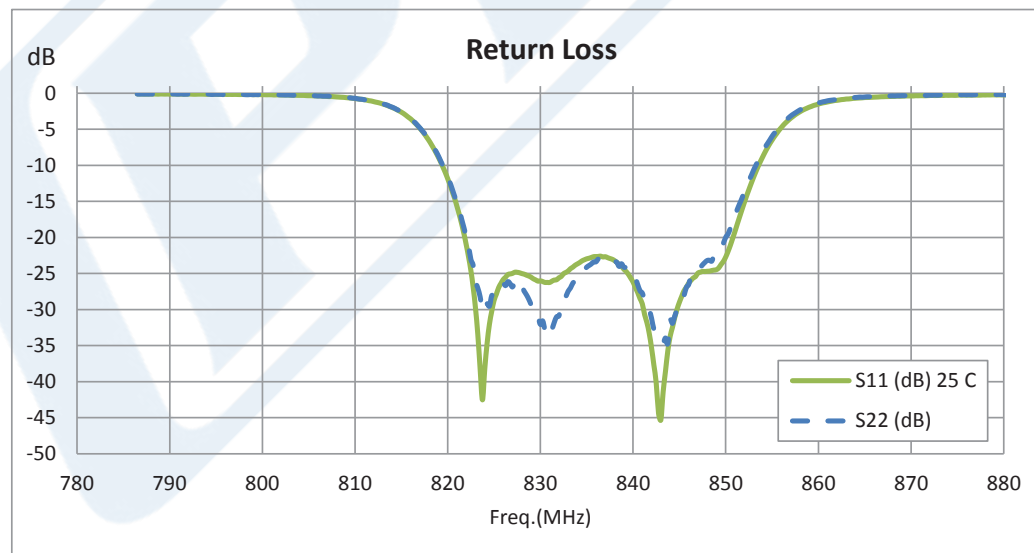
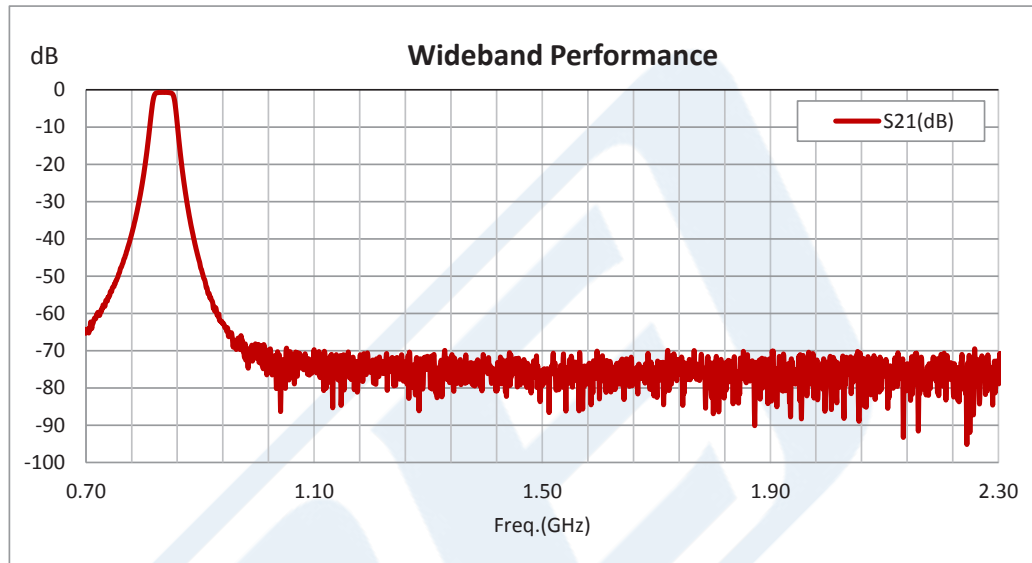




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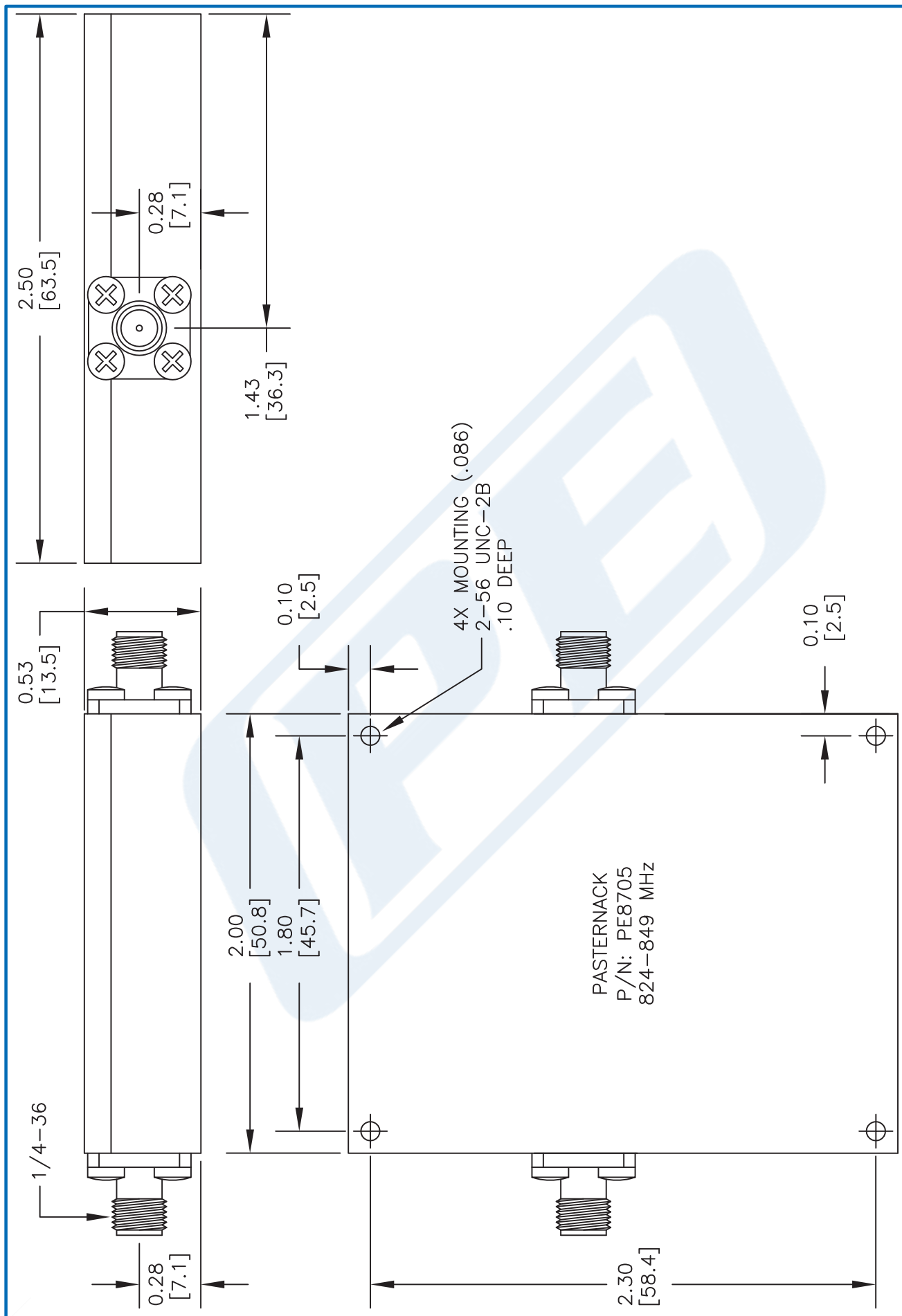
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PE8705 CAD Drawing

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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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