



4 Section Bandpass Filter With SMA Female Connectors Operating From 2.4 GHz to 2.5 GHz With a 100 MHz Passband

Bandpass Filters Technical Data Sheet

PE8701

Features

- Pass band of 100 MHz
- 2.4 GHz to 2.5 GHz
- Four section
- Combine filter design
- 50 dB rejection at 2.05 GHz and 2.85 GHz (about 350 MHz from band edge)
- Maximum insertion loss of 1.0 dB
- Female SMA connectors

Applications

- ISM
- WiFi
- Bluetooth
- Zigbee

Description

The PE8701 is a four section band pass filter that is used for filtering for ISM, WiFi, Bluetooth, and Zigbee uses. The pass band is 100 MHz, or 2.4 to 2.5 GHz. Implementing a combine design, the filter has excellent rejection of 50 dB at 2.05 GHz and 2.85 GHz, or about 350 MHz from the band edges. It has a maximum insertion loss of 1.0 dB. The PE8701 has SMA female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Passband Frequency	2.4		2.5	GHz
Impedance		50		Ohms
Insertion Loss			1	dB
Passband VSWR		1.5:1		
Rejection at 2.05 GHz	50			dB
Rejection at 2.85 GHz	50			dB
Input Power, CW			5	Watts

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

Mechanical Specifications

Size

Length	1.06 in [26.92 mm]
Width	1.8 in [45.72 mm]
Height	0.53 in [13.46 mm]
Weight	0.175 lbs [79.38 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 2.4 GHz to 2.5 GHz With a 100 MHz Passband PE8701](#)

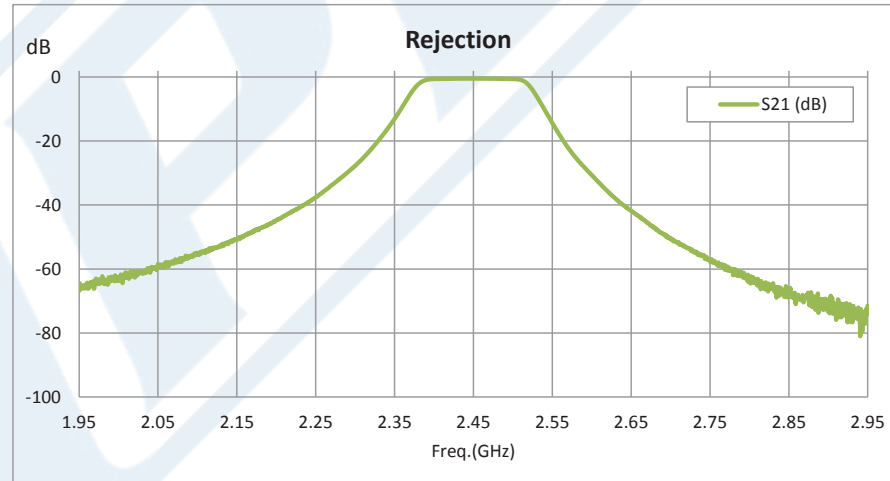
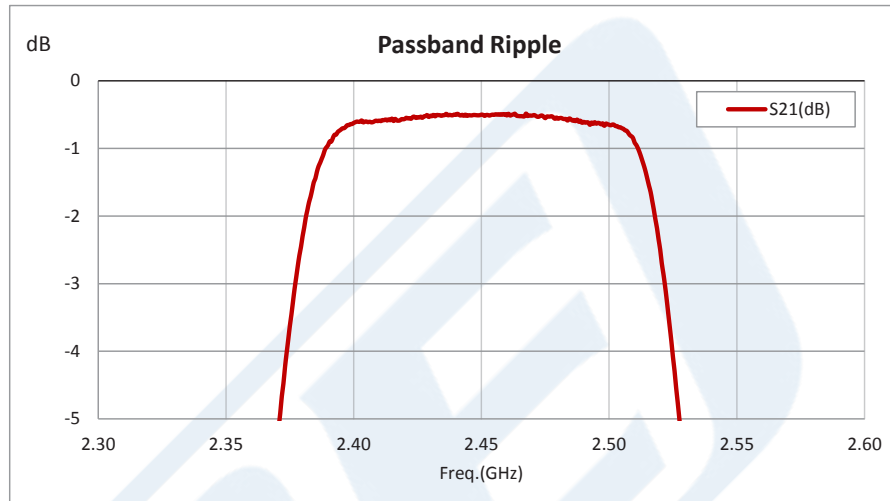


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Typical Performance Data



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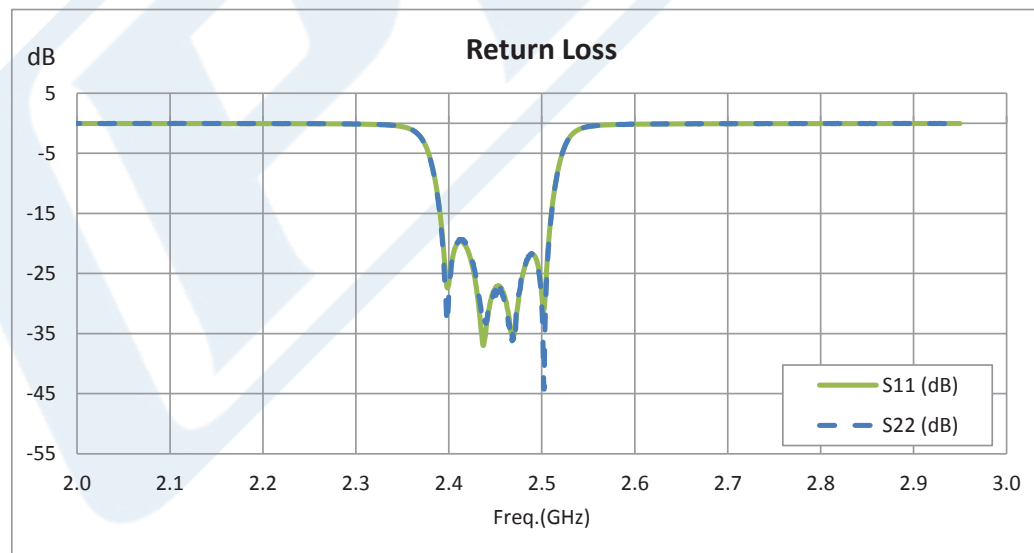
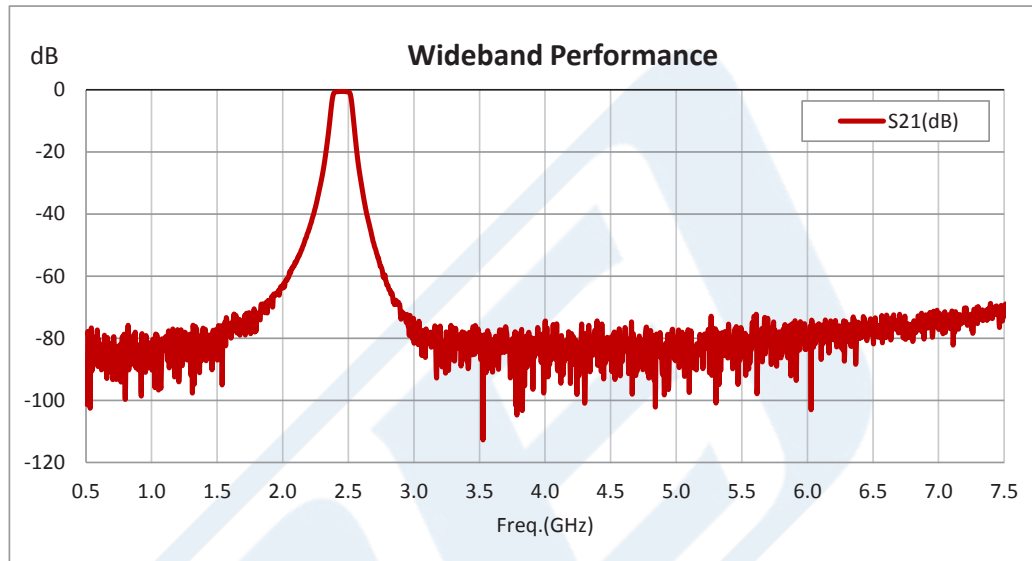




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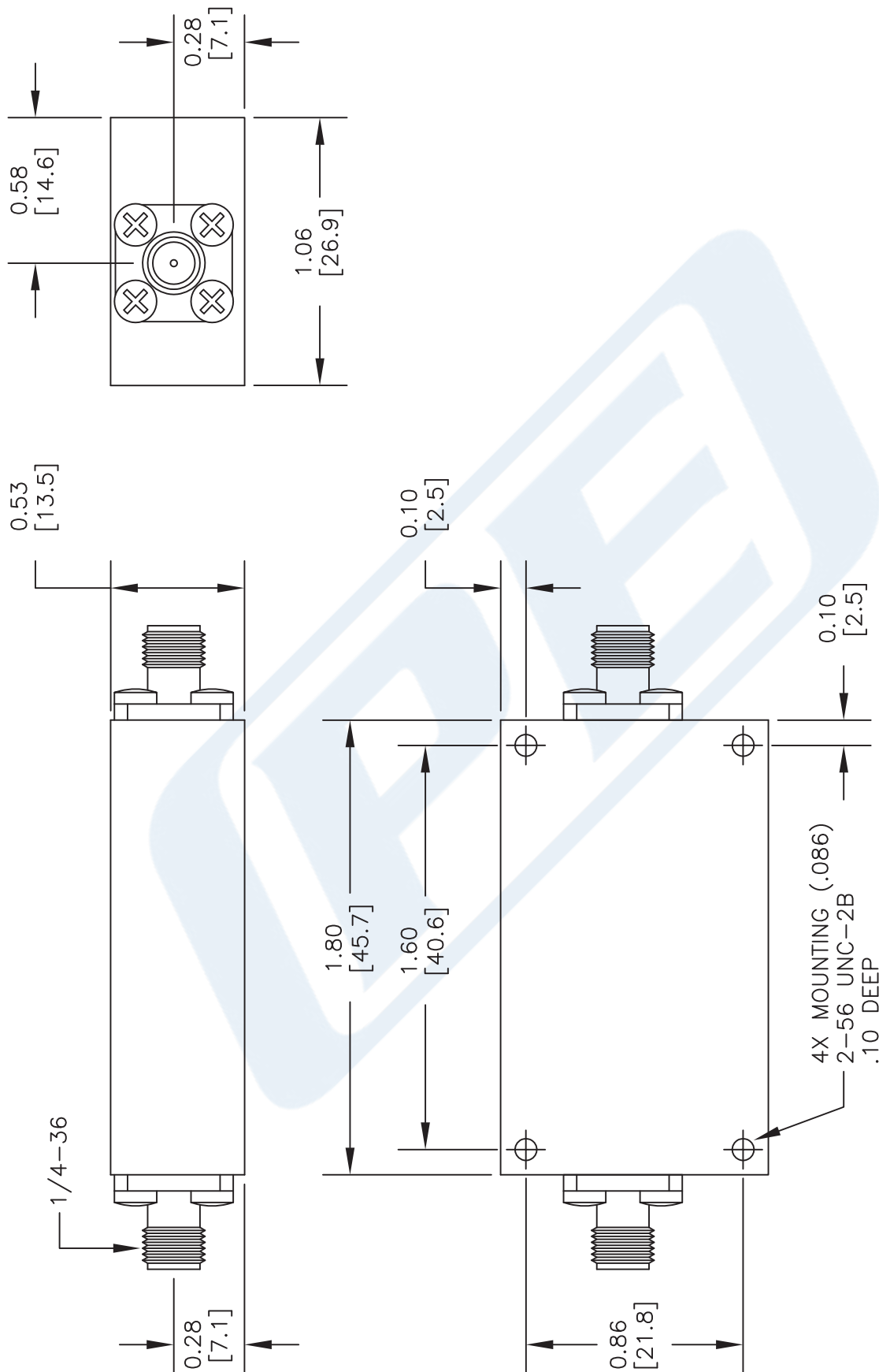
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4 Section Bandpass Filter With SMA Female Connectors Operating From 2.4 GHz to 2.5 GHz With a 100 MHz Passband PE8701](http://www.pasternack.com/4-section-band-pass-filter-2.4-2.5-ghz-passband-100-mhz-pe8701-p.aspx)

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PE8701 CAD Drawing

4 Section Bandpass Filter With SMA Female Connectors Operating From 2.4 GHz to 2.5 GHz With a 100 MHz Passband



DWG TITLE

PE8701

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].

FSCM NO. 53919

CAD FILE 041509

SCALE N/A

SIZE A

2233



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