



4 Section Bandpass Filter With SMA Female Connectors Operating From 5.725 GHz to 5.875 GHz With a 150 MHz Passband

Bandpass Filters Technical Data Sheet

PE8702

Features

- Pass band of 150 MHz
- 5.725 GHz to 5.875 GHz
- Four section
- Combine filter design
- 50 dB rejection at 5.2 GHz and 6.4 GHz (about 525 MHz from band edge)
- Maximum insertion loss of 1.0 dB
- Female SMA connectors

Applications

- ISM
- WiFi

Description

The PE8702 is a four section band pass filter that is useful for filtering for ISM and WiFi uses. The pass band is 150 MHz, or 5.725 to 5.875 GHz. Implementing a combline design, the filter has excellent rejection of 50 dB at 5.2 GHz and 6.4 GHz, or about 525 MHz from the band edges. It has a maximum insertion loss of 1.0 dB. The PE8702 has SMA female connectors

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Passband Frequency	5.725		5.875	GHz
Impedance		50		Ohms
Insertion Loss			1	dB
Passband VSWR		1.5:1		
Rejection at 5.2 GHz	50			dB
Rejection at 6.4 GHz	50			dB
Input Power, CW			5	Watts

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

Mechanical Specifications

Size

Length	0.7 in [17.78 mm]
Width	1.9 in [48.26 mm]
Height	0.53 in [13.46 mm]
Weight	0.14 lbs [63.5 g]

Configuration

Design	Comblin
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 5.725 GHz to 5.875 GHz With a 150 MHz Passband PE8702](#)



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Environmental Specifications

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant

REACH Compliant

12/17/2014

Plotted and Other Data

Notes:

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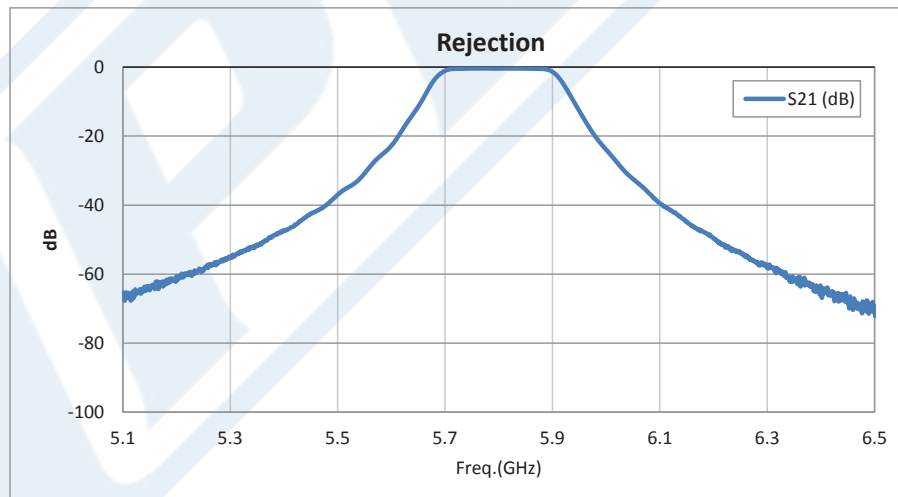
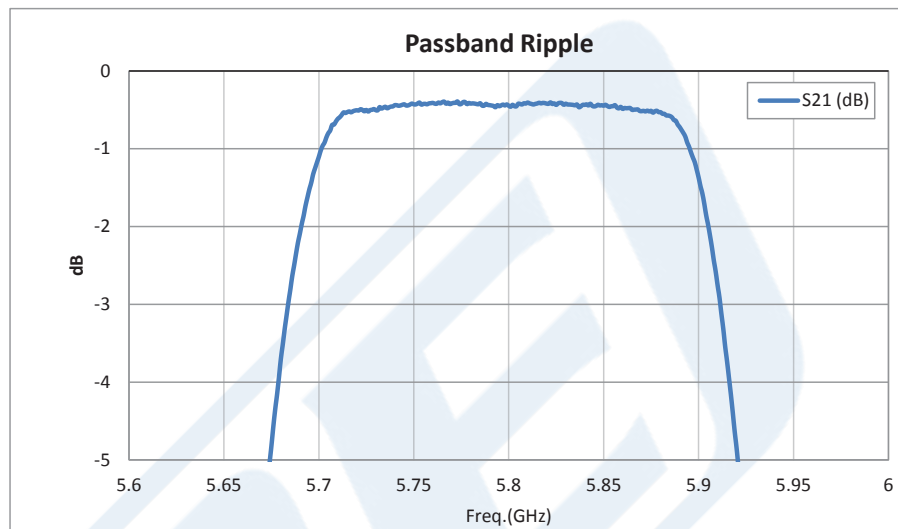


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Typical Performance Data



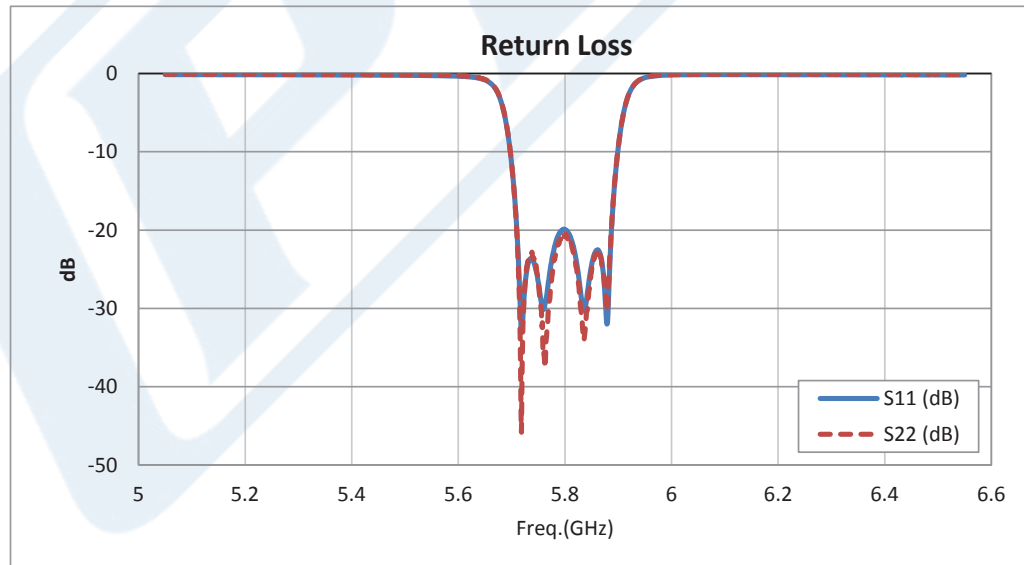
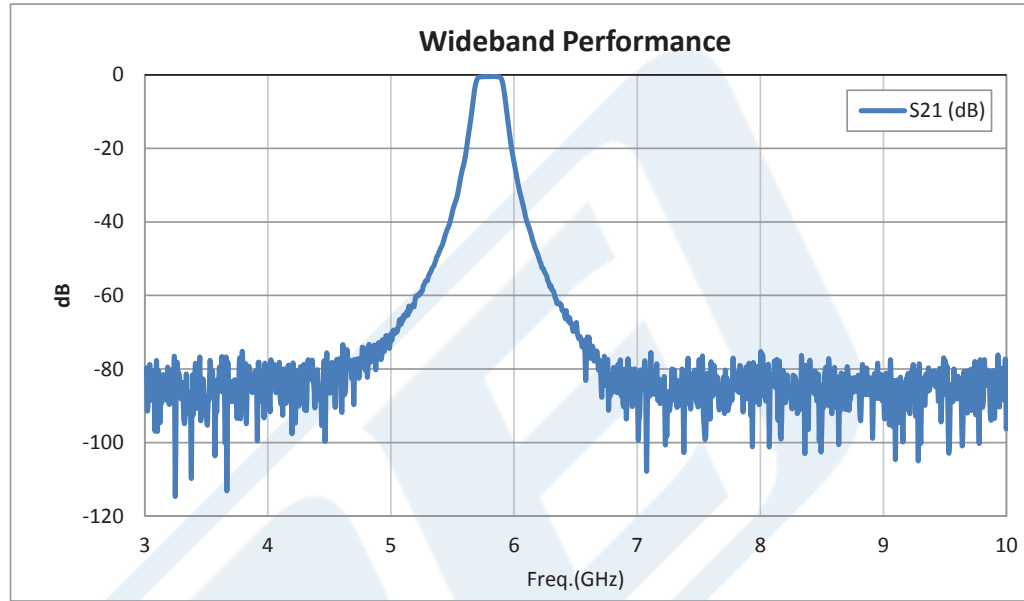
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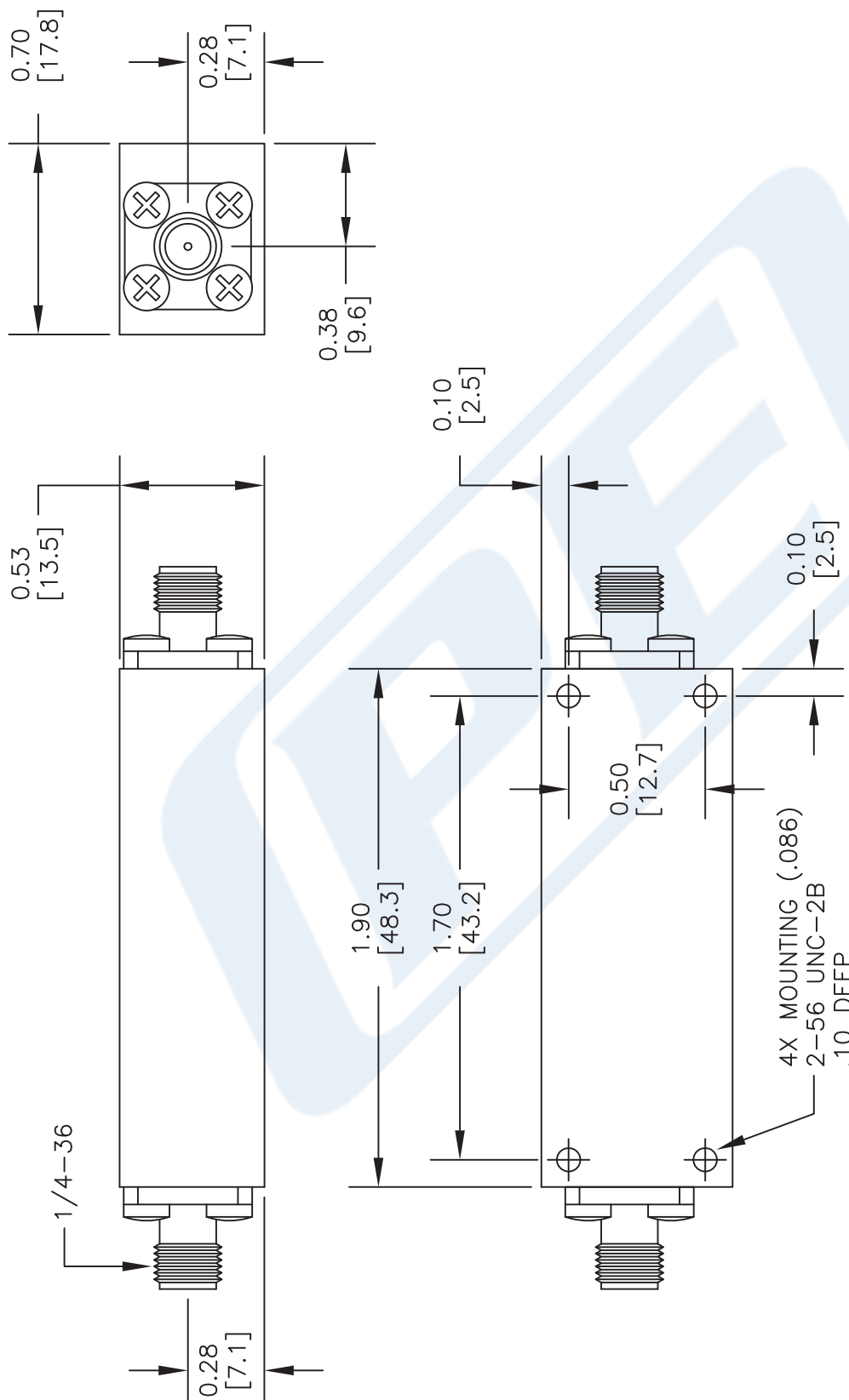
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4 Section Bandpass Filter With SMA Female Connectors Operating From 5.725 GHz to 5.875 GHz With a 150 MHz Passband PE8702](http://www.pasternack.com/4-section-band-pass-filter-5.725-5.875-ghz-passband-150-mhz-pe8702-p.aspx)

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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.

PE8702 CAD Drawing

4 Section Bandpass Filter With SMA Female Connectors Operating
From 5.725 GHz to 5.875 GHz With a 150 MHz Passband



DWG TITLE

PE8702

FSCM NO. 53919

CAD FILE 041509

SCALE N/A

SIZE A

2233

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Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com