



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

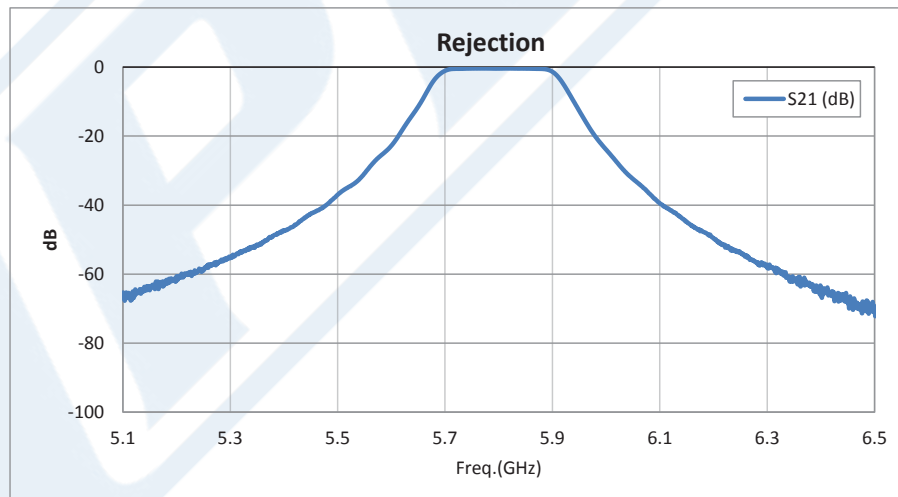
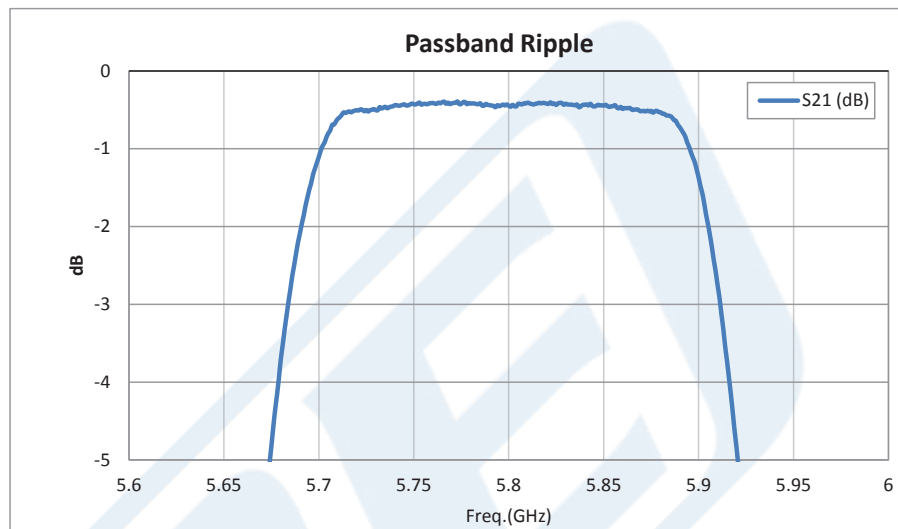


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Typical Performance Data



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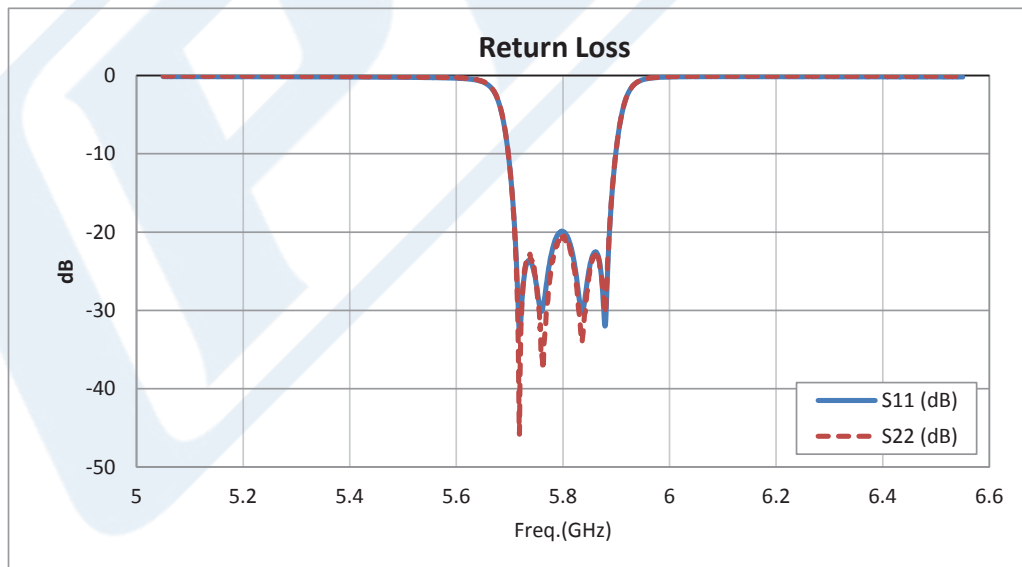
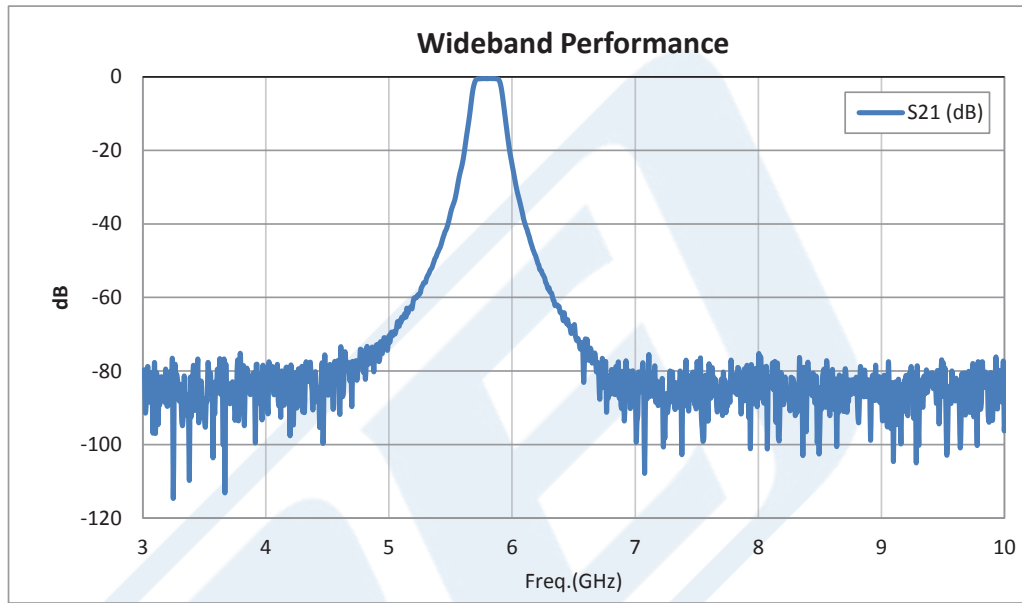




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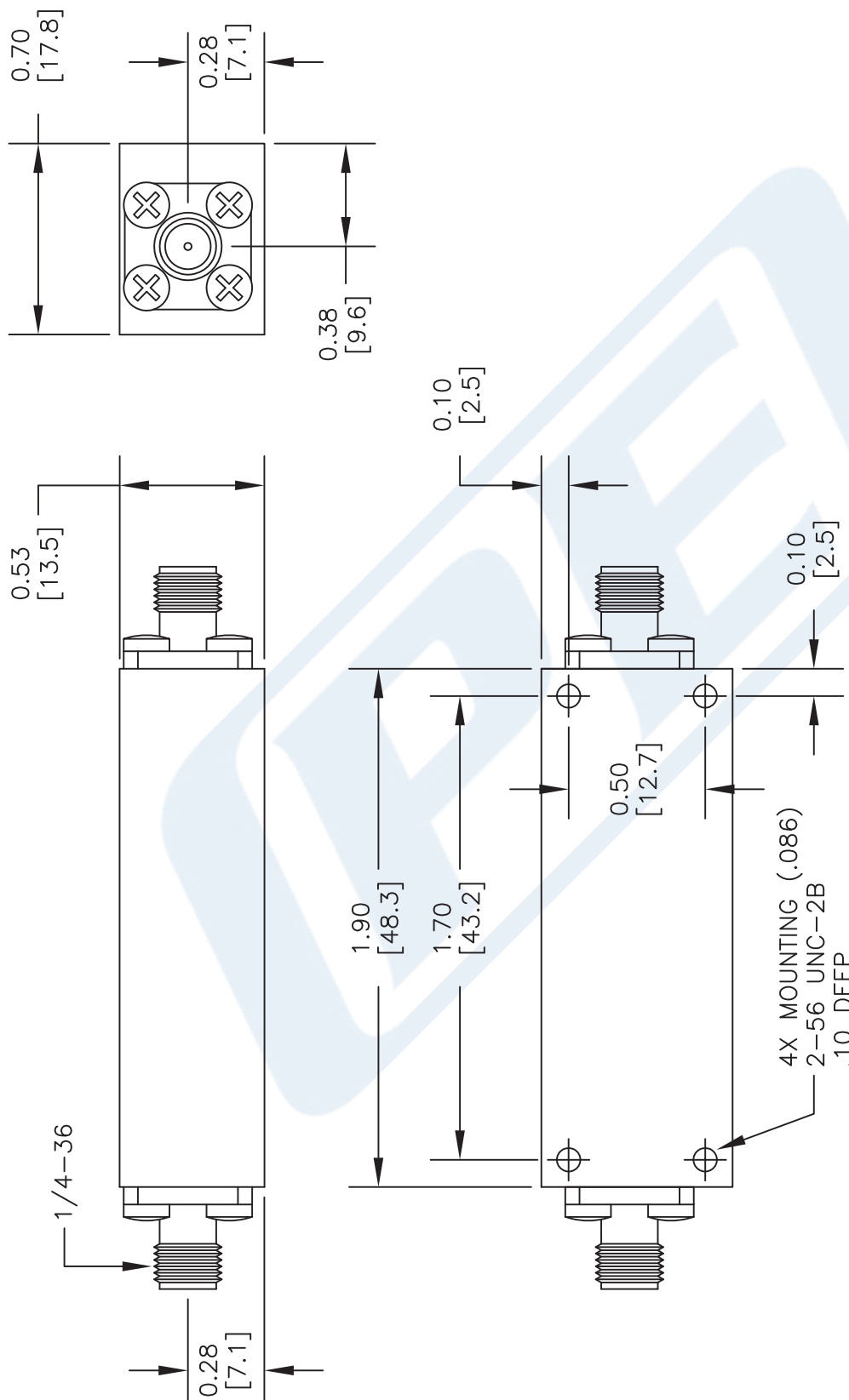
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4 Section Bandpass Filter With SMA Female Connectors Operating From 5.725 GHz to 5.875 GHz With a 150 MHz Passband PE8702](http://www.pasternack.com/4-section-band-pass-filter-5.725-5.875-ghz-passband-150-mh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

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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

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].

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FSCM NO. 53919

CAD FILE 041509

SCALE N/A

SIZE A

2233