



## 9 Section Bandpass Filter With SMA Female Connectors Operating From 17.7 GHz to 21.2 GHz With a 3.5 GHz Passband

### Bandpass Filters Technical Data Sheet

PE8743

#### Features

- Pass band of 3.5 GHz
- 17.7 to 21.2 GHz
- Nine section
- Chebyshev filter design
- Minimum 50 dB rejection at 16 GHz and 24 GHz
- Maximum insertion loss of 2 dB
- Female SMA connectors

#### Applications

- VSAT

#### Description

The PE8743 is a nine section band pass filter that is useful for filtering for VSAT uses. The pass band is 3.5 GHz, or 17.7 to 21.2 GHz. Implementing a Chebyshev design, the filter has excellent minimum rejection of 50 dB at 16 GHz and 24 GHz. It has a maximum insertion loss of 2 dB. The PE8743 has SMA Female connectors.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Passband Frequency	17.7		21.2	GHz
Impedance		50		Ohms
Insertion Loss			2	dB
Passband VSWR		1.5:1		
Rejection at 16 GHz	50			dB
Rejection at 24 GHz	50			dB
Input Power, CW			5	Watts

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

#### Mechanical Specifications

Size	
Length	1.44 in [36.58 mm]
Width	0.45 in [11.43 mm]
Height	0.38 in [9.65 mm]
Weight	0.064 lbs [29.03 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [9 Section Bandpass Filter With SMA Female Connectors Operating From 17.7 GHz to 21.2 GHz With a 3.5 GHz Passband PE8743](#)



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#### Configuration

Design	Bidirectional Chebyshev
Number of Sections	9
Package Style	Connectorized Module
Connector 1	SMA Female
Connector 2	SMA Female

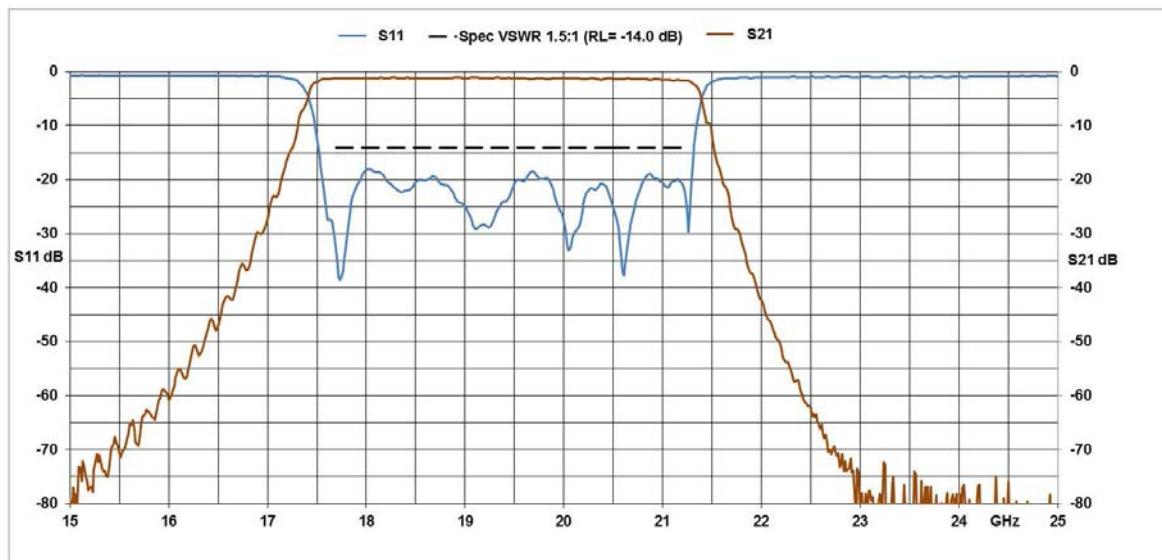
Mechanical Specification Notes: Comes with a ruggedized housing.

#### Compliance Certifications (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

#### Typical Performance Data



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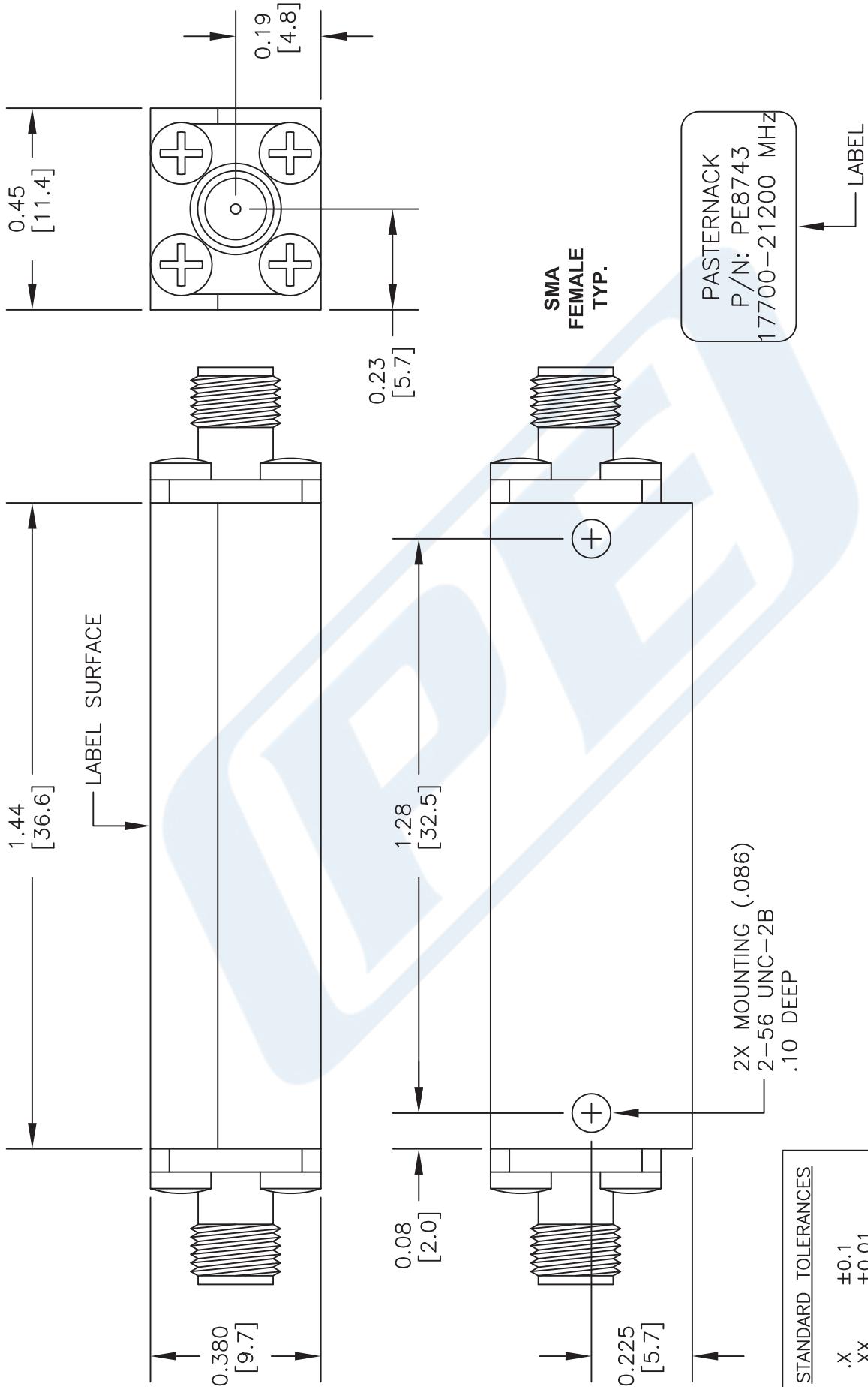
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URL: <https://www.pasternack.com/9-section-band-pass-filter-17.7-21.2-ghz-passband-3.5-ghz-pe8743-p.aspx>

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.

PE8743 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



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\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES