



## 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

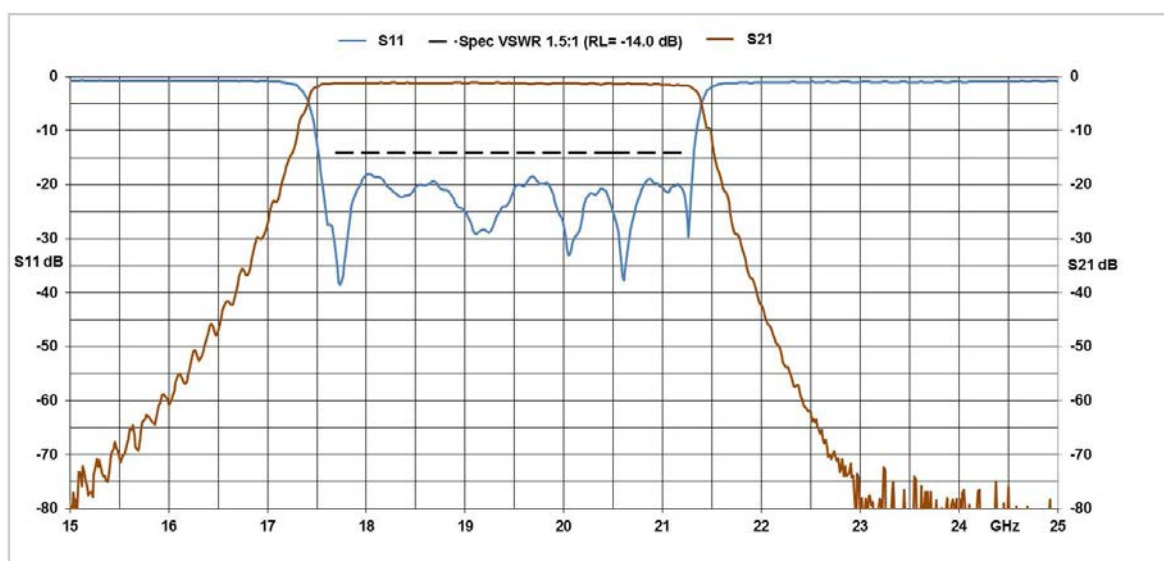
Mechanical Specification Notes: Comes with a ruggedized housing.

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

#### Plotted and Other Data

Notes:

#### Typical Performance Data



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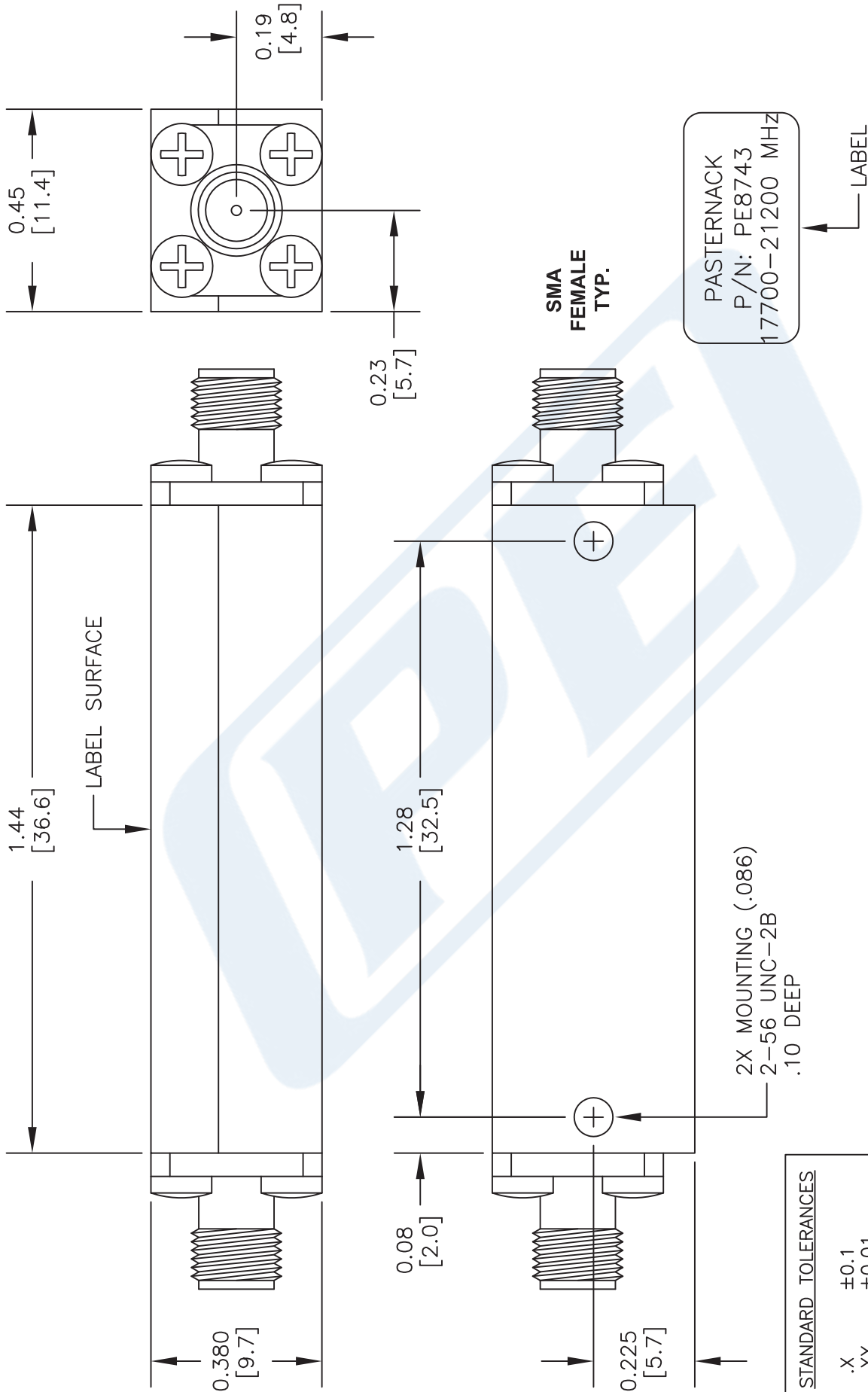
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# PE8743 CAD Drawing

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



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

**PE8743**

FSCM NO. 53919

3045

SIZE A

SCALE N/A

CAD FILE 030716

**PE PASTERNAK**  
THE ENGINEER'S RF SOURCE

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