



## 4 Section Bandpass Filter With SMA Female Connectors Operating From 1.71 GHz to 1.77 GHz With a 60 MHz Passband

### Bandpass Filters Technical Data Sheet

PE8710

#### Features

- Pass band of 60 MHz
- 1.71 to 1.77 GHz
- Four section
- Combine filter design
- Minimum 50 dB rejection at 1.49 GHz and 1.99 GHz (about 220 MHz from band edge)
- Maximum insertion loss of 1.5 dB
- Female SMA connectors

#### Applications

- UMTS/AWS

#### Description

The PE8710 is a four section band pass filter that is useful for filtering for UMTS/AWS uses. The pass band is 60 MHz, or 1.71 to 1.77 GHz. Implementing a combine design, the filter has excellent minimum rejection of 50 dB at 1.49 GHz and 1.99 GHz, or about 220 MHz from the band edges. It has a maximum insertion loss of 1.5 dB. The PE8710 has SMA Female connectors.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Passband Frequency	1.71		1.77	GHz
Impedance		50		Ohms
Insertion Loss			1.5	dB
Passband VSWR		1.5:1		
Rejection at 1.49 GHz	50			dB
Rejection at 1.99 GHz	50			dB
Input Power, CW			5	Watts

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

#### Mechanical Specifications

##### Size

Length	1.8 in [45.72 mm]
Width	1.4 in [35.56 mm]
Height	0.53 in [13.46 mm]
Weight	0.125 lbs [56.7 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 1.71 GHz to 1.77 GHz With a 60 MHz Passband PE8710](#)



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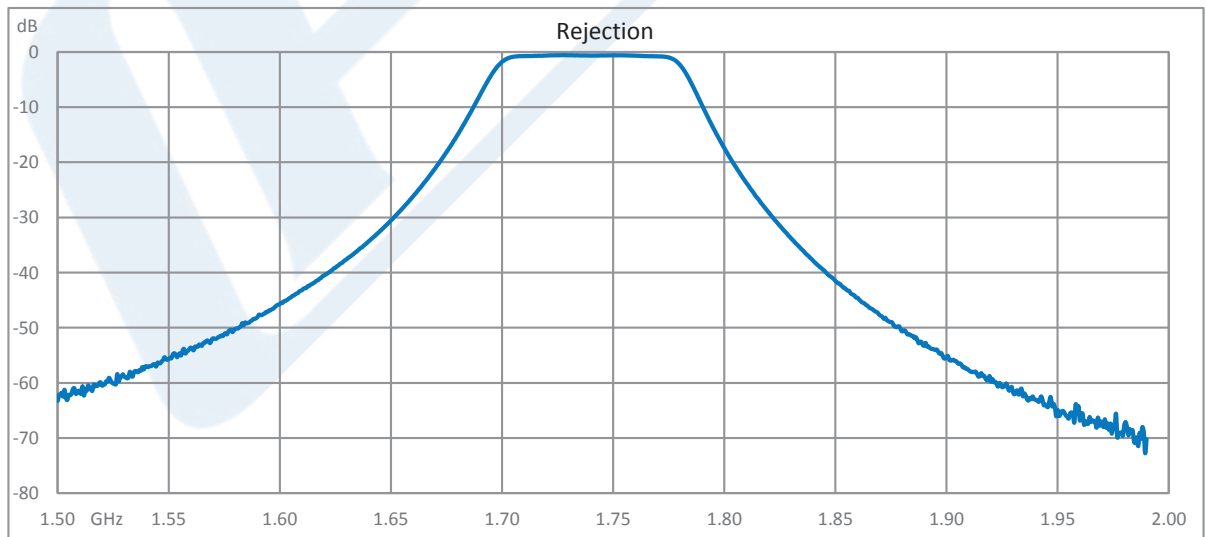
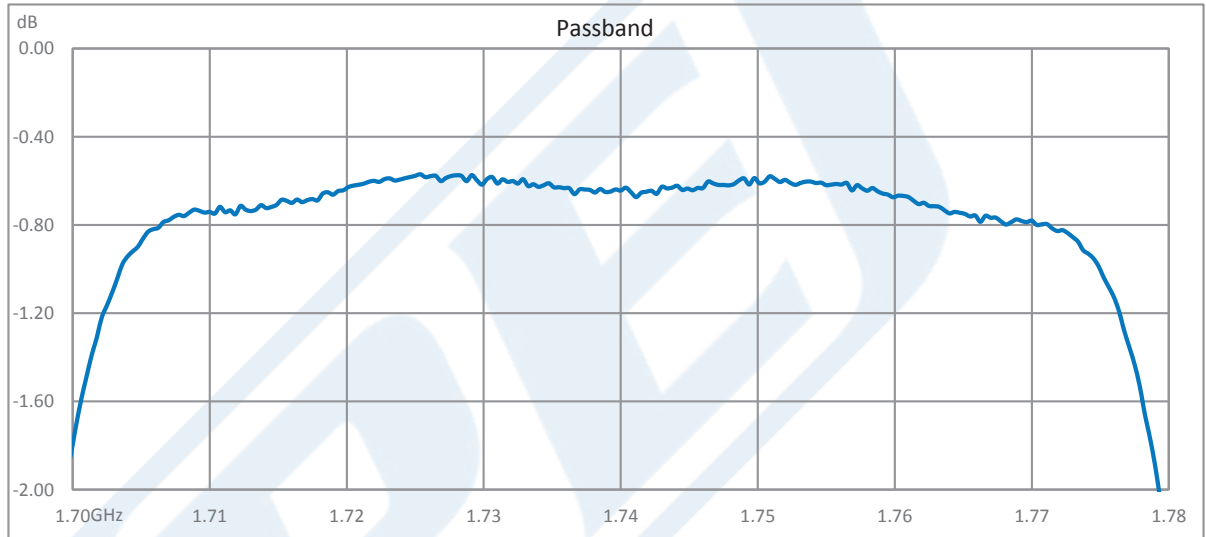
PE8710

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

**Plotted and Other Data**

Notes:

**Typical Performance Data**



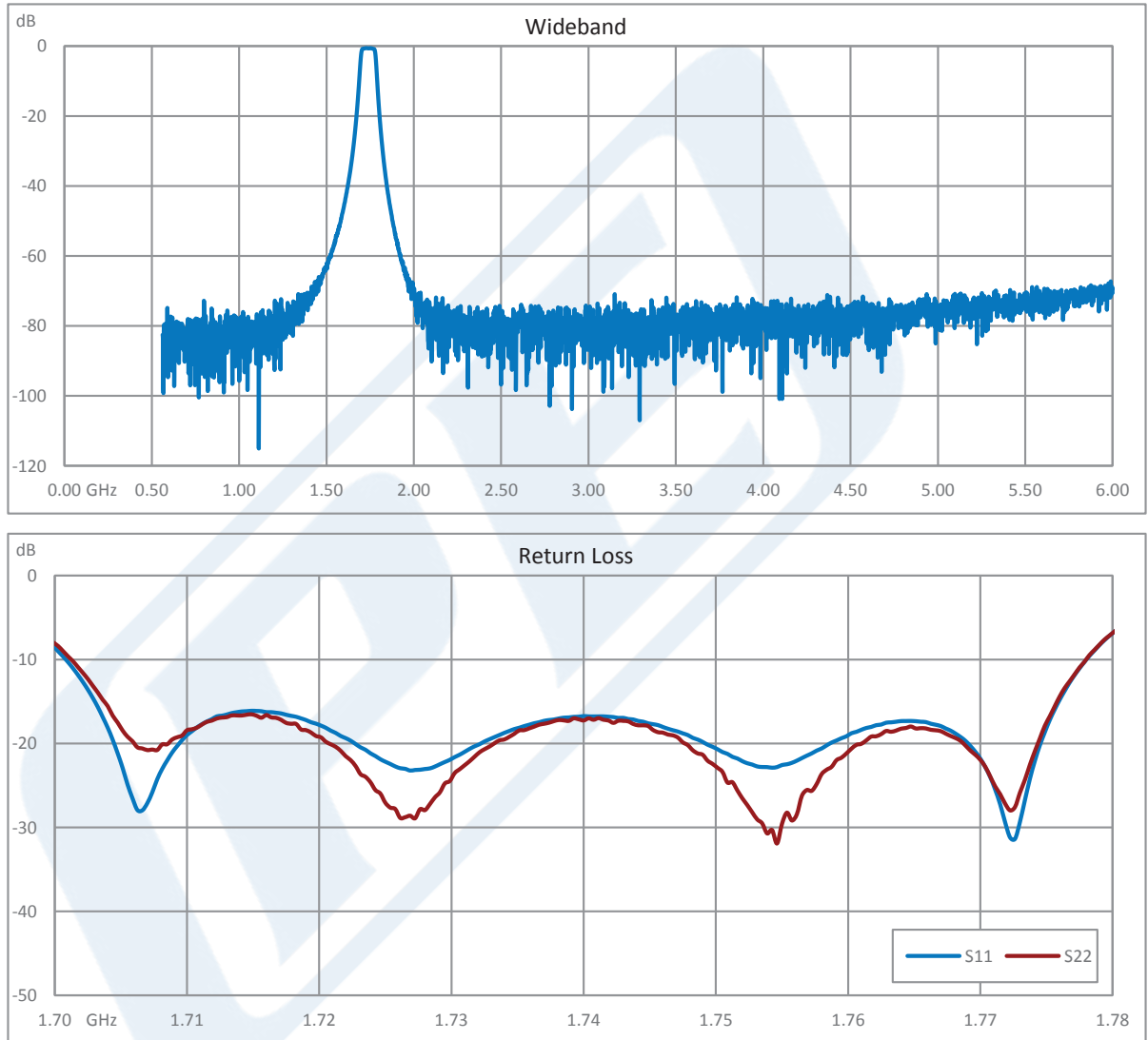
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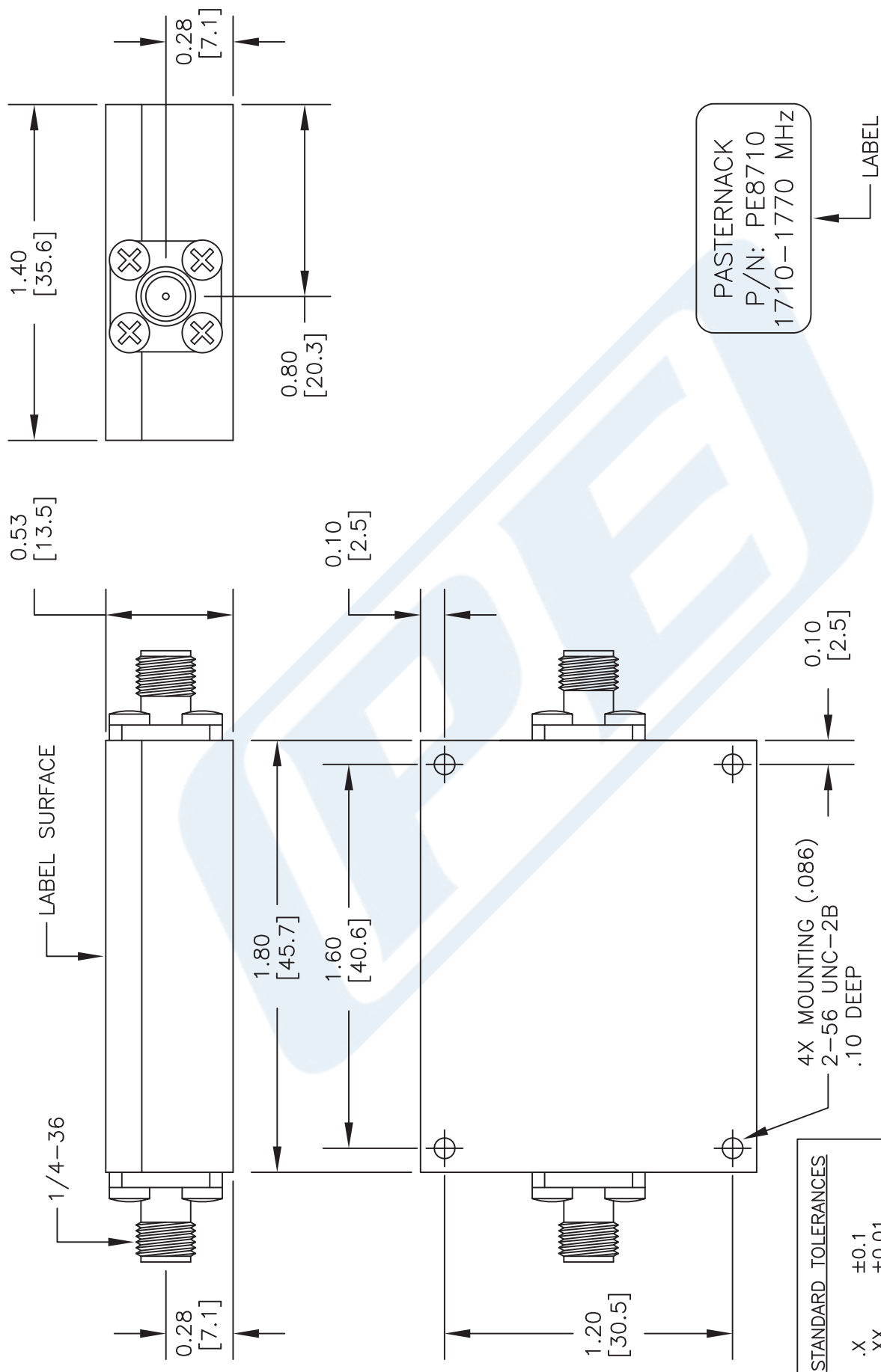
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# PE8710 CAD Drawing

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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  
**PE8710**

FSCM NO. 53919

CAD FILE 030716

SCALE N/A

SIZE A

3045

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