



9 Section Bandpass Filter With SMA Female Connectors Operating From 27.5 GHz to 31 GHz With a 3.5 GHz Passband

Bandpass Filters Technical Data Sheet

PE8747

Features

- Pass band of 3.5 GHz
- 27.5 to 31 GHz
- Nine section
- Chebyshev filter design
- Minimum 50 dB minimum rejection at 25 GHz and 32.75 GHz
- Maximum insertion loss of 2.5 dB
- Female SMA connectors

Applications

- VSAT

Description

The PE8747 is a nine section band pass filter that is useful for filtering for VSAT uses. The pass band is 3.5 GHz, or 27.5 to 31 GHz. Implementing a Chebyshev design, the filter has excellent minimum rejection of 50 dB minimum at 25 GHz and 32.75 GHz. It has a maximum insertion loss of 2.5 dB. The PE8747 has SMA Female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Passband Frequency	27.5		31	GHz
Impedance		50		Ohms
Insertion Loss			2.5	dB
Passband VSWR		1.6:1		
Rejection at 25 GHz	50			dB
Rejection at 32.75 GHz	50			dB

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

Mechanical Specifications

Size

Length	1.7 in [43.18 mm]
Width	0.38 in [9.65 mm]
Height	0.38 in [9.65 mm]
Weight	0.0873 lbs [39.6 g]

Configuration

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

Mechanical Specification Notes: Comes with a ruggedized housing.

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 27.5 GHz to 31 GHz With a 3.5 GHz Passband PE8747](#)



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Environmental Specifications

Temperature

Operating Range

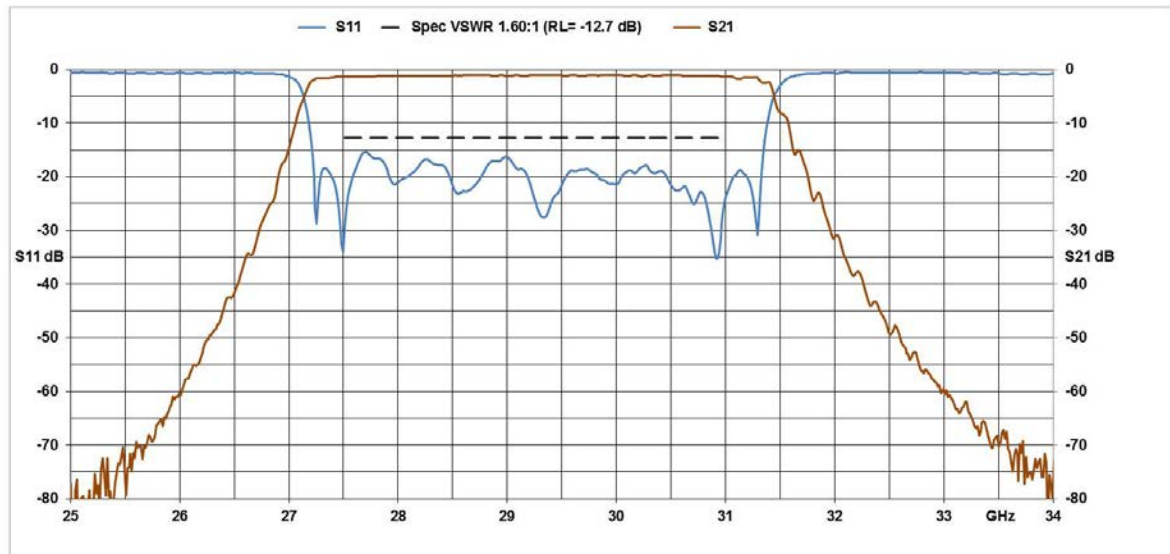
0 to +70 deg C

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

Plotted and Other Data

Notes:

Typical Performance Data



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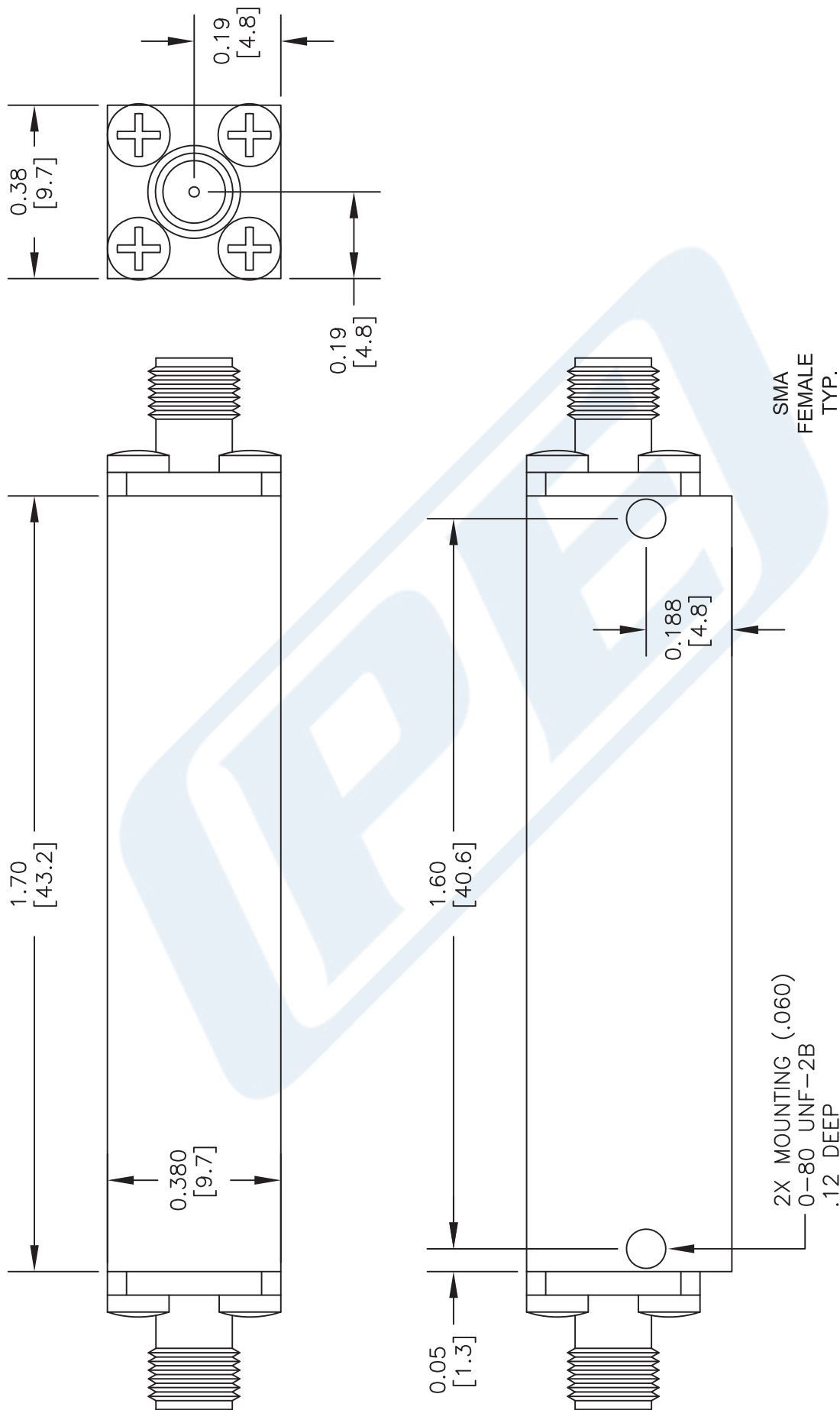
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URL: <https://www.pasternack.com/9-section-band-pass-filter-27.5-31-ghz-passband-3.5-ghz-pe8747-p.aspx>

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.

PE8747 CAD Drawing

9 Section Bandpass Filter With SMA Female Connectors Operating From 27.5 GHz to 31 GHz With a 3.5 GHz Passband



DWG TITLE

PE8747

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].

FSCM NO. 53919

CAD FILE 120415

SCALE N/A

SIZE A

2233



THE ENGINEER'S RF SOURCE

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