

6 Section Bandpass Filter With SMA Female Connectors Operating From 19.2 GHz to 20.2 GHz With a 1,000 MHz Passband



Bandpass Filters Technical Data Sheet

PE87FL1010

Features

- Pass band of 1000 MHz
- 19.2 GHz to 20.2 GHz
- Six section
- · Combline filter design

Applications

· Satellite communications

- 35 dB rejection at 18.2 GHz and 21.2 GHz (1.5 GHz from band center)
- Typical insertion loss of 1.5 dB
- Female SMA connectors

Description

The PE87FL1010 is a six section band pass filter. It is part of a family of filters that is useful for satellite communications. The pass band is 1000 MHz wide, from 19.2 GHz to 20.2 GHz. Implemented using a Combline design, the filter has excellent rejection of 35 dB at 18.2 GHz and 21.2 GHz, or ±1.5 GHz from mid band. It has a maximum insertion loss of 1.5 dB. The PE87FL1010 has SMA female connectors.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------------|---------|---------|---------|-------|
| Passband Frequency | 19.2 | | 20.2 | GHz |
| Impedance | | 50 | | Ohms |
| Insertion Loss | | | 1.5 | dB |
| Passband VSWR | | 1.4:1 | | |
| Rejection at 18.2 GHz | 35 | | | dB |
| Rejection at 21.2 GHz | 35 | | | dB |
| Input Power, CW | | | 2 | Watts |
| | | | | |

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

Mechanical Specifications

Size

 Length
 1.55 in [39.37 mm]

 Width
 0.45 in [11.43 mm]

 Height
 0.4 in [10.16 mm]

Configuration

Design Combline

Number of Sections 6

Package Style Connectorized

Connector 1 SMA Female

Connector 2 SMA Female

Connector Option Field Replaceable

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 6 Section Bandpass Filter With SMA Female Connectors Operating From 19.2 GHz to 20.2 GHz With a 1,000 MHz Passband PE87FL1010

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

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Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant REACH Compliant

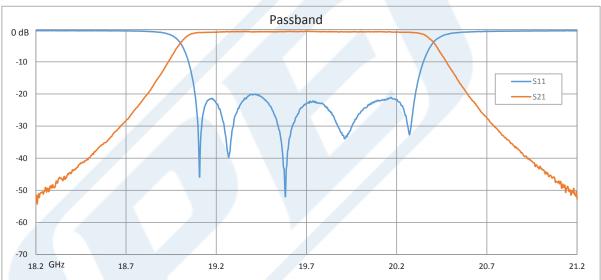
06/14/2014

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

Typical Performance Data



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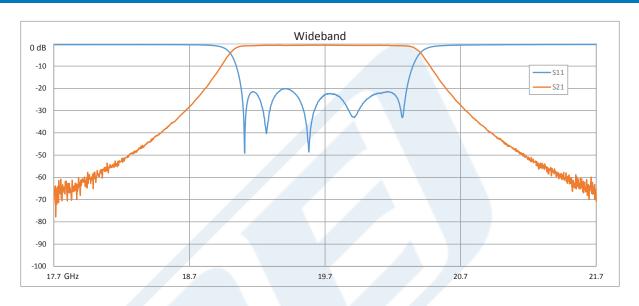






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URL: http://www.pasternack.com/6-section-band-pass-filter-19.2-20.2-ghz-passband-1000-mhz-pe87fl1010-p.aspx

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PE87FL1010 CAD Drawing
6 Section Bandpass Filter With SMA Female Connectors Operating From 19.2 GHz to 20.2 GHz With a 1,000 MHz Passband

