

4 Section Bandpass Filter With SMA Female Connectors Operating From 4.9 GHz to 5.9 GHz With a 1,000 MHz Passband



PE8714

Features

- Pass band of 1 GHz
- 4.9 to 5.9 GHz
- Four section
- Combine filter design
- Minimum 50 dB rejection at 0.4 GHz and 10.4 GHz (about 4.5 GHz from band edge)
- Typical insertion loss of 0.75 dB
- Female SMA connectors

Applications

- WIFI Bands
- Satellite Communications (Ground)
- RF laboratory test and measurement
- System integration prototyping
- RF development and evaluation

Description

The PE8714 is a four section band pass filter that is useful for filtering for WiMAX uses. The pass band is 1 GHz, or 4.9 to 5.9 GHz. Implementing a combine design, the filter has excellent minimum rejection of 50 dB at 0.4 GHz and 10.4 GHz, or about 4.5 GHz from the band edges. It has a typical insertion loss of 0.75 dB. The PE8714 has SMA Female connectors.

Electrical Specifications

Description	Min	Typ	Max	Units
Passband Frequency	4.9		5.9	GHz
Passband Center Frequency		5.4		GHz
Impedance		50		Ohms
Insertion Loss		0.75		dB
Passband VSWR		1.5:1		
Rejection at 400 MHz	50			dB
Rejection at 10.4 GHz	50			dB
Input Power, CW			5	Watts

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

Mechanical Specifications

Size

Length	1.28 in [32.51 mm]
Width	0.7 in [17.78 mm]
Height	0.53 in [13.46 mm]
Weight	0.1295 lbs [58.74 g]

Configuration

Design	Combine
Number of Sections	4
Package Style	Connectorized
Connector 1	SMA Female
Connector 2	SMA Female

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Environmental Specifications

Temperature

Operating Range

-55 to +85 deg C

Environmental Specification Notes:

Designed for commercial RF applications, laboratory testing environments, and system integration prototyping. For additional environmental specifications, please call us at (866) 485-0817 or email sales@pasternack.com.

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

Plotted and Other Data

Notes:

Typical Performance Data

4 Section Bandpass Filter With SMA Female Connectors Operating From 4.9 GHz to 5.9 GHz With a 1,000 MHz Passband from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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 4.9 GHz to 5.9 GHz With a 1,000 MHz Passband PE8714](#)

URL: <https://www.pasternack.com/4-section-band-pass-filter-4.9-ghz-5.9-ghz-passband-1000-mhz-pe8714-p.aspx>

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PE8714 CAD Drawing

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