



Bandpass Waveguide Filter With WR-75 Interface
Operating from 13.75 GHz to 14.5 GHz

TECHNICAL DATA SHEET

PE-W75F001

Features

- Passband of 750 MHz
- 13.75 GHz to 14.5 GHz Passband
- WR-75 UG Cover and Grooved Flanges
- Min rejection 60 dB at 10.75 to 12.75 GHz
- Min rejection 45 dB at 16 to 18 GHz
- Maximum Insertion Loss of 0.5 dB
- Max Power (CW) 200 Watts

Applications

- Radar Systems
- Test and Measurement
- Satellite Communications
- Instrumentation
- Automotive Radar Systems

Description

The PE-W75F001 is a WR-75 bandpass filter with UG Cover and UG Grooved Flanges. The pass band is 750 MHz, or 13.75 to 14.5 GHz. Implementing a waveguide design, the filter has excellent rejection of 60 dB minimum at 10.75 GHz to 12.75 GHz and 45 dB minimum at 16 GHz to 18 GHz, or about 1000 MHz and 1500 MHz from the band edge. It has a maximum insertion loss of 0.5 dB.

Configuration

Passband	Band Pass
Flange 1	WR-75
Flange 2	WR-75

Electrical Specifications (Values at 25°C, sea level)

Description	Minimum	Typical	Maximum	Units
Passband Frequency Range	13.75	-	14.5	GHz
Insertion Loss			0.5	dB
Passband VSWR			1.25:1	
Input Power			200	Watts
Peak Power			20	kWatts
Lowband Rejection at 12.75 GHz	60			dB
Highband Rejection at 16 GHz	45			dB

Mechanical Specifications

Size	
Length	7.87 in [199.9 mm]
Width	1.5 in [38.1 mm]
Height	1.5 in [38.1 mm]
Weight	0.65 lbs [294.84 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Bandpass Waveguide Filter With WR-75 Interface Operating from 13.75 GHz to 14.5 GHz PE-W75F001](#)



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Flange 1

Waveguide Size
Flange Material and Plating
Flange 1 Type

WR-75
Aluminum, Silver
UG Cover

Flange 2

Waveguide Size
Flange Material and Plating
Flange 2 Type

WR-75
Aluminum, Silver
UG Grooved

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

Plotted and Other Data

Notes:

- Values at 25 °C, sea level

Bandpass Waveguide Filter With WR-75 Interface Operating from 13.75 GHz to 14.5 GHz 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.

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URL: <https://www.pasternack.com/wr-75-bandpass-waveguide-filter-ug-pass-band-pe-w75f001-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.

PE-W75F001 CAD Drawing

Bandpass Waveguide Filter With WR-75 Interface Operating from 13.75 GHz to 14.5 GHz

