



## Highpass Waveguide Filter With WR-75 Interface Operating from 13.5 GHz to 15 GHz

### TECHNICAL DATA SHEET

**PE-W75F002**

#### Features

- Passband of 1500 MHz
- 13.5 GHz to 15 GHz Passband
- WR-75 UG Cover Flanges
- Min rejection 40 dB at 9 GHz
- Maximum Insertion Loss of 0.2 dB
- Max Power (CW) 200 Watts

#### Applications

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

#### Description

The PE-W75F002 is a WR-75 highpass filter with UG Cover Flanges. The pass band is 1000 MHz, or 13.5 to 15 GHz. Implementing a waveguide design, the filter has excellent rejection of 40 dB minimum at 9 GHz or about 4500 MHz from the band edge. It has a maximum insertion loss of 0.2 dB.

#### Configuration

High Passband  
Flange 1  
Flange 2

High Pass  
WR-75  
WR-75

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

Description	Minimum	Typical	Maximum	Units
High Passband Frequency Range	13.5	-	15	GHz
Insertion Loss			0.2	dB
High Passband VSWR			1.25:1	
Input Power			200	Watts
Peak Power			20	kWatts
Lowband Rejection at 9 GHz	40			dB

#### Mechanical Specifications

##### Size

Length	3.31 in [84.07 mm]
Width	1.5 in [38.1 mm]
Height	1.5 in [38.1 mm]
Weight	0.16 lbs [72.57 g]

##### Flange 1

Waveguide Size	WR-75
Flange Material and Plating	Aluminum, Silver

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Highpass Waveguide Filter With WR-75 Interface Operating from 13.5 GHz to 15 GHz PE-W75F002](#)



Highpass Waveguide Filter With WR-75 Interface  
Operating from 13.5 GHz to 15 GHz

**TECHNICAL DATA SHEET**

**PE-W75F002**

Flange 1 Type

UG Cover

**Flange 2**

Waveguide Size

Flange Material and Plating

Flange 2 Type

WR-75

Aluminum, Silver

UG Cover

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

**Plotted and Other Data**

Notes:

- Values at 25 °C, sea level

Highpass Waveguide Filter With WR-75 Interface Operating from 13.5 GHz to 15 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Highpass Waveguide Filter With WR-75 Interface Operating from 13.5 GHz to 15 GHz PE-W75F002](#)

URL: <https://www.pasternack.com/wr-75-highpass-waveguide-filter-ug-pass-band-pe-w75f002-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-W75F002 CAD Drawing

Highpass Waveguide Filter With WR-75 Interface Operating from 13.5 GHz to 15 GHz

