



Bandpass Waveguide Filter With WR-62 Interface Operating from 13.75 GHz to 14.5 GHz

TECHNICAL DATA SHEET

PE-W62F001

Features

- Passband of 750 MHz
- 13.75 GHz to 14.5 GHz Passband
- WR-62 UG Cover Flanges
- Min rejection 50 dB at 11.45 to 12.75 GHz
- Min rejection 45 dB at 16 to 18 GHz
- Maximum Insertion Loss of 0.3 dB
- Max Power (CW) 200 Watts

Applications

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

Description

The PE-W62F001 is a WR-62 bandpass filter with UG Cover Flanges. The pass band is 750 MHz, or 13.75 to 14.5 GHz. Implementing a waveguide design, the filter has excellent rejection of 50 dB minimum at 11.45 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 0.3 dB.

Configuration

Passband	Band Pass
Flange 1	WR-62
Flange 2	WR-62

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

Description	Minimum	Typical	Maximum	Units
Passband Frequency Range	13.75	-	14.5	GHz
Insertion Loss			0.3	dB
Passband VSWR			1.2:1	
Input Power			200	Watts
Peak Power			10	kWatts
Lowband Rejection at 12.75 GHz	50			dB
Highband Rejection at 16 GHz	45			dB

Mechanical Specifications

Size	
Length	4.57 in [116.08 mm]
Width	1.31 in [33.27 mm]
Height	1.31 in [33.27 mm]
Weight	0.34 lbs [154.22 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-62 Interface Operating from 13.75 GHz to 14.5 GHz PE-W62F001](#)



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Flange 1

Waveguide Size
Flange Material and Plating
Flange 1 Type

WR-62
Aluminum, Silver
UG Cover

Flange 2

Waveguide Size
Flange Material and Plating
Flange 2 Type

WR-62
Aluminum, Silver
UG Cover

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

Plotted and Other Data

Notes:

- Values at 25 °C, sea level

Bandpass Waveguide Filter With WR-62 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.

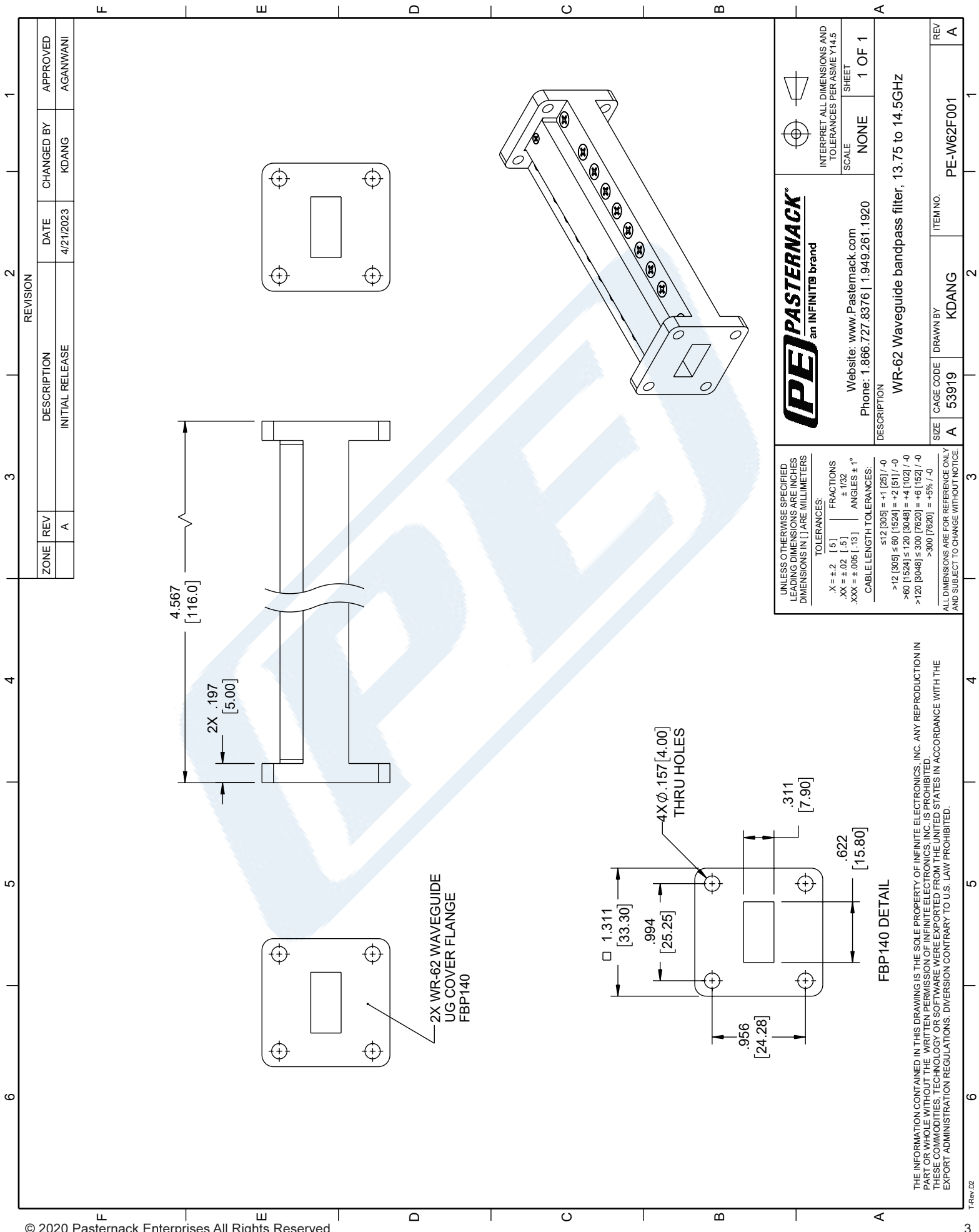
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URL: <https://www.pasternack.com/wr-62-bandpass-waveguide-filter-ug-pass-band-pe-w62f001-p.aspx>

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-W62F001 CAD Drawing

Bandpass Waveguide Filter With WR-62 Interface Operating from 13.75 GHz to 14.5 GHz



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	
X = ±.2 [5]	FRACTIONS
XX = ±.02 [.5]	± 1/32
XXX = ±.005 [.13]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
≤12 [305]	±.1 [25]
>12 [305] ≤ 60 [1524]	±.2 [51]
>60 [1524] ≤ 120 [3048]	±.4 [102]
>120 [3048] ≤ 300 [7620]	±.6 [152]
>300 [7620]	±.5% / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.	

PE PASTERNAK an INFINITIB brand	
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	
DESCRIPTION WR-62 Waveguide bandpass filter, 13.75 to 14.5GHz	
SIZE A	CAGE CODE 53919
DRAWN BY KDANG	ITEM NO. PE-W62F001
REV A	REV A

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
SCALE NONE	SHEET 1 OF 1