



Bandpass Waveguide Filter With WR-19 Interface
Operating from 40 GHz to 50 GHz

TECHNICAL DATA SHEET

PE-W19F001

Features

- Passband of 10 GHz
- 40 GHz to 50 GHz Passband
- WR-19 UG Cover Flanges
- Min rejection 50 dB at DC to 37 GHz
- Min rejection 45 dB at 53 to 67 GHz
- Maximum Insertion Loss of 1 dB
- Max Power (CW) 25 Watts

Applications

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

Description

The PE-W19F001 is a WR-90 bandpass filter with UG Cover Flanges. The pass band is 10 GHz, or 40 to 50 GHz. Implementing a waveguide design, the filter has excellent rejection of 50 dB minimum at DC to 37 GHz and 45 dB minimum at 53 to 67 GHz, or about 3000 MHz from the band edges. It has a maximum insertion loss of 1 dB.

Configuration

Passband	Band Pass
Flange 1	WR-19
Flange 2	WR-19

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

Description	Minimum	Typical	Maximum	Units
Passband Frequency Range	40	-	50	GHz
Insertion Loss			1	dB
Passband VSWR			1.4:1	
Input Power			25	Watts
Peak Power			600	Watts
Lowband Rejection at 37 GHz	50			dB
Highband Rejection at 53 GHz	45			dB

Mechanical Specifications

Size	
Length	1.18 in [29.97 mm]
Width	1.125 in [28.58 mm]
Height	1.125 in [28.58 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-19 Interface Operating from 40 GHz to 50 GHz PE-W19F001](#)



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Flange 1

Waveguide Size
Flange Material and Plating
Flange 1 Type

WR-19
Copper, Gold
UG Cover

Flange 2

Waveguide Size
Flange Material and Plating
Flange 2 Type

WR-19
Copper, Gold
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-19 Interface Operating from 40 GHz to 50 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.

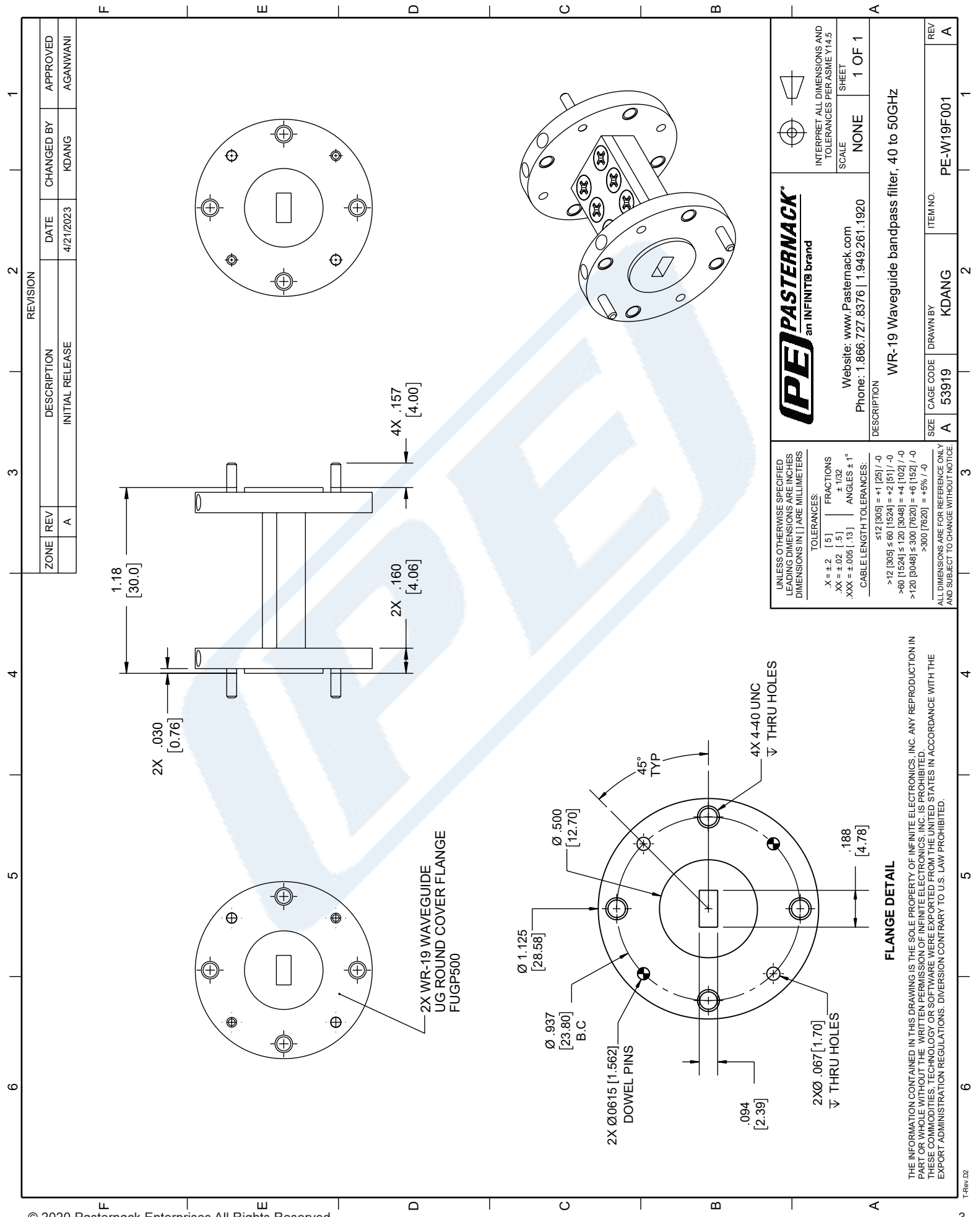
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URL: <https://www.pasternack.com/wr-19-bandpass-waveguide-filter-ug-pass-band-pe-w19f001-p.aspx>

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-W19F001 CAD Drawing

Bandpass Waveguide Filter With WR-19 Interface Operating from 40 GHz to 50 GHz



PE PASTERNAK an INFINITI [®] brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1	
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		DESCRIPTION: WR-19 Waveguide bandpass filter, 40 to 50GHz	
SIZE: A	CAGE CODE: 53919	DRAWN BY: KDANG	REV: A
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: X = ±.2 [5] FRACTIONS XX = ±.02 [.5] ANGLES ± 1° XXX = ±.005 [.13] CABLE LENGTH TOLERANCES: ≤12 [305] = +1 [25] / -0 >12 [305] ≤ 60 [1524] = +2 [51] / -0 >60 [1524] ≤ 120 [3048] = +4 [102] / -0 >120 [3048] ≤ 300 [7620] = +6 [152] / -0 >300 [7620] = +5% / -0 ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.		ITEM NO.: PE-W19F001	