



Bandpass Waveguide Filter With WR-28 Interface
Operating from 35 GHz to 37 GHz

TECHNICAL DATA SHEET

PE-W28F011

Features

- Passband of 2000 MHz
- 35 GHz to 37 GHz Passband
- WR-28 UG Cover Flanges
- Min rejection 40 dB at 33 GHz
- Min rejection 40 dB at 39 GHz
- Maximum Insertion Loss of 0.5 dB
- Max Power (CW) 50 Watts

Applications

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

Description

The PE-W28F011 is a WR-28 bandpass filter with UG Cover Flanges. The pass band is 2000 MHz, or 35 to 37 GHz. Implementing a waveguide design, the filter has excellent rejection of 40 dB minimum at 33 GHz and 40 dB minimum at 39 GHz, or about 2000 MHz from the band edges. It has a maximum insertion loss of 0.5 dB.

Configuration

Passband	Band Pass
Flange 1	WR-28
Flange 2	WR-28

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

Description	Minimum	Typical	Maximum	Units
Passband Frequency Range	35	-	37	GHz
Insertion Loss			0.5	dB
Passband VSWR			1.3:1	
Input Power			50	Watts
Peak Power			2	kWatts
Lowband Rejection at 33 GHz	40			dB
Highband Rejection at 39 GHz	40			dB

Mechanical Specifications

Size	
Length	2.36 in [59.94 mm]
Width	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	0.95 lbs [430.91 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-28 Interface Operating from 35 GHz to 37 GHz PE-W28F011](#)



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Flange 1

Waveguide Size
Flange Material and Plating
Flange 1 Type

WR-28
Copper, Gold
UG Cover

Flange 2

Waveguide Size
Flange Material and Plating
Flange 2 Type

WR-28
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-28 Interface Operating from 35 GHz to 37 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.

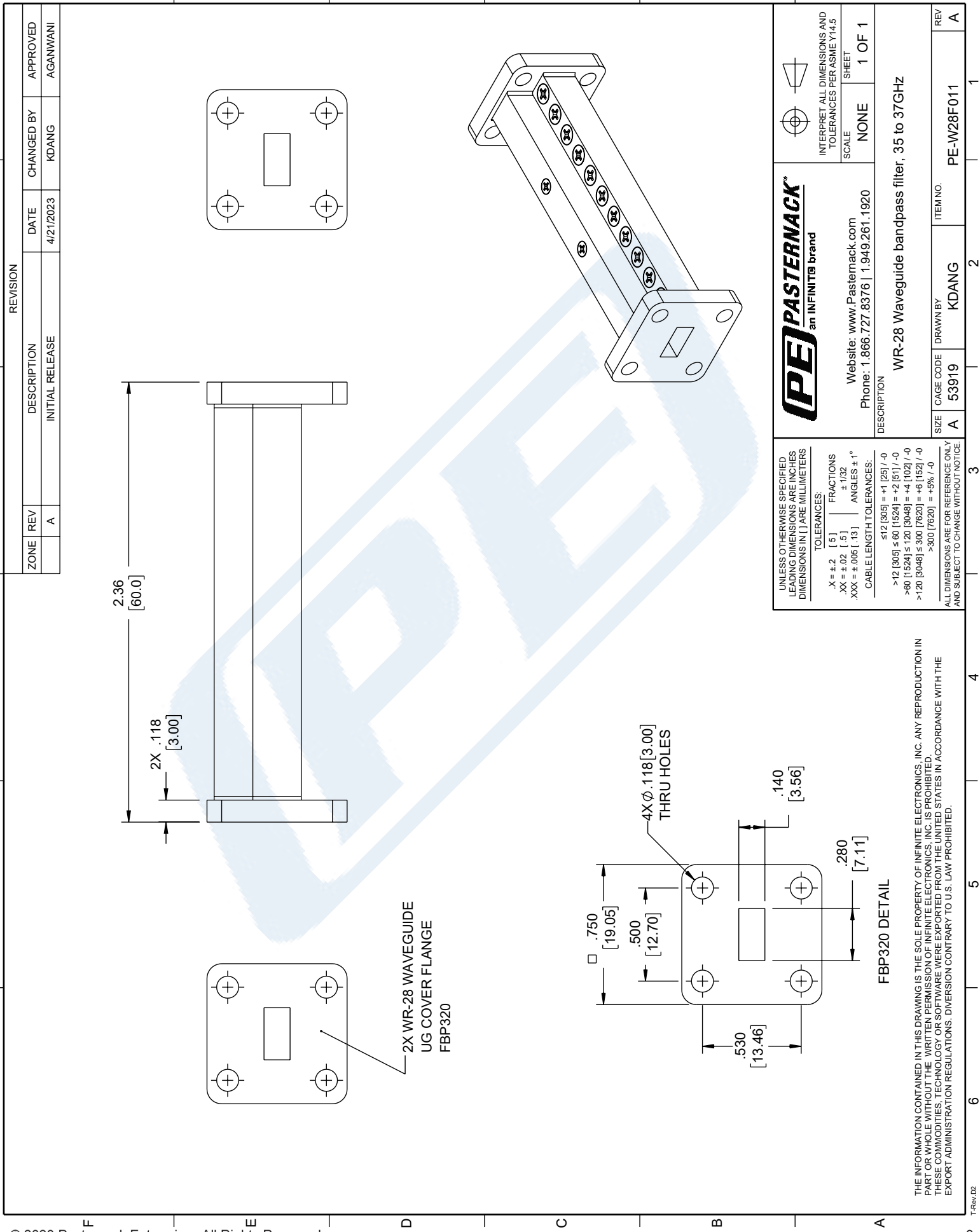
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URL: <https://www.pasternack.com/wr-28-bandpass-waveguide-filter-ug-pass-band-pe-w28f011-p.aspx>

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-W28F011 CAD Drawing

Bandpass Waveguide Filter With WR-28 Interface Operating from 35 GHz to 37 GHz



PE PASTERNAK an INFINITI [®] brand		
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	SCALE NONE	SHEET 1 OF 1
DESCRIPTION WR-28 Waveguide bandpass filter, 35 to 37GHz		
SIZE A	CAGE CODE 53919	DRAWN BY KDANG
ITEM NO. PE-W28F011		REV A

UNLESS OTHERWISE SPECIFIED
 LEADING DIMENSIONS ARE IN INCHES
 DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

X = ±.2	[.51]	FRACTIONS
XX = ±.02	[.51]	± 1/32
XXX = ±.005	[.13]	ANGLES ± 1°

CABLE LENGTH TOLERANCES:

≤ 12 [305]	±.1 [2.5]	-0
> 12 [305]	±.2 [5.1]	-0
> 60 [1524]	±.4 [10.2]	-0
> 120 [3048]	±.6 [15.2]	-0
> 300 [7620]	±.8 [20.3]	-0

ALL DIMENSIONS ARE FOR REFERENCE ONLY
 AND SUBJECT TO CHANGE WITHOUT NOTICE.

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