

WR-34 Waveguide Isolator from 21.7 GHz to 33 GHz,
18 dB min Isolation, Cover Flange, Aluminum

Waveguide Isolators Technical Data Sheet

PE-W34IR001

Features

- WR-34 Waveguide Isolator
- Ka Band Frequency Range 21.7 to 33 GHz
- UG Cover Flange Configuration
- Maximum VSWR 1.3:1
- Minimum 18 dB isolation
- Maximum Forward Power 20 W (CW)

Applications

- Radar Systems
- Military
- Wireless Radio Systems
- Telecom Infrastructure
- Communication Systems
- R&D Labs
- Microwave Radio Systems

Description

The PE-W34IR001 is a Waveguide Isolator offering 18 dB minimum isolation over the Ka band frequency range of 21.7 to 33 GHz. The design achieves high isolation with wide band performance and the WR-34 waveguide uses UG Square Cover compatible flanges on all ports and has a power rating of 20 watts (CW).

Pasternack offers a wide variety of isolators and waveguide isolators to fit your needs. These are two-port devices that transmit microwave or radio frequency power in one direction only and block the signal in the opposite direction. They can be thought of as a diode for RF energy. Isolators are used to isolate equipment from the effects of conditions outside of the equipment. For instance they are used to prevent a microwave source being detuned by a mismatched load. Pasternack's waveguide isolators feature excellent insertion loss, full WR band high isolation and reliability.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	21.7		33	GHz
Insertion Loss			0.3	dB
Isolation	18			dB
VSWR			1.3:1	
Forward Power (CW)			20	Watts
Forward Power (Peak)			300	Watts
Reverse Power (CW)			2	Watts
Reverse Power (Peak)			30	Watts

Mechanical Specifications

Size	
Length	2.22 in [56.39 mm]
Width	1.18 in [29.97 mm]
Height	0.87 in [22.1 mm]
Weight	0.2 lbs [90.72 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-34 Waveguide Isolator from 21.7 GHz to 33 GHz, 18 dB min Isolation, Cover Flange, Aluminum PE-W34IR001](#)



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Configuration

Waveguide Size

Flange Type

Body Material and Plating

WR-34

Cover

Aluminum, Chromate

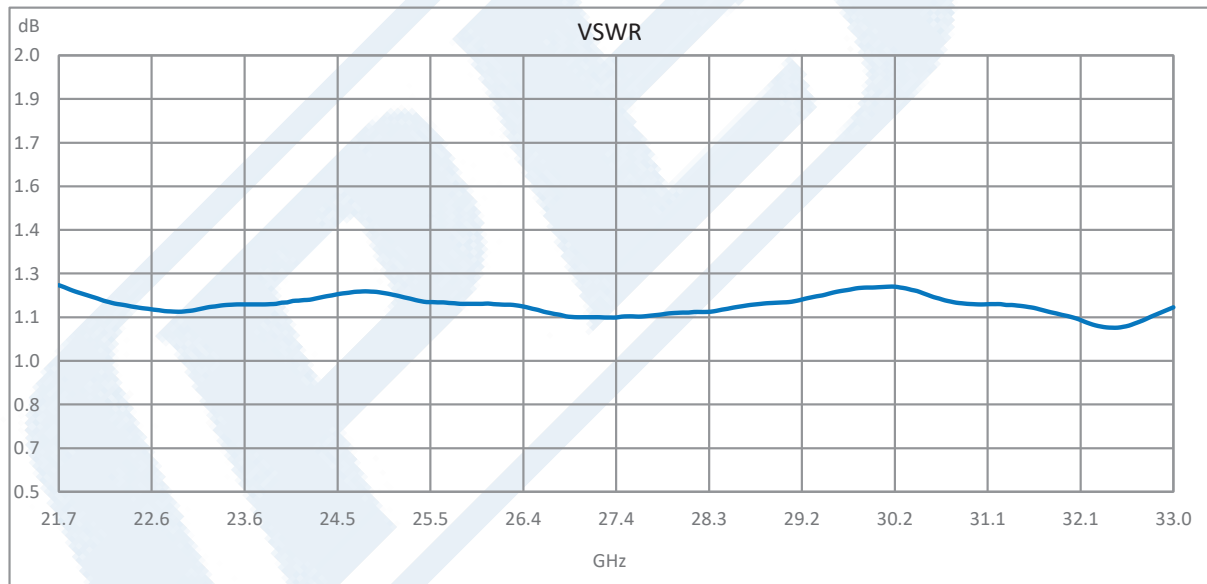
Environmental Specifications

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

Plotted and Other Data

Notes:

Typical Performance Data



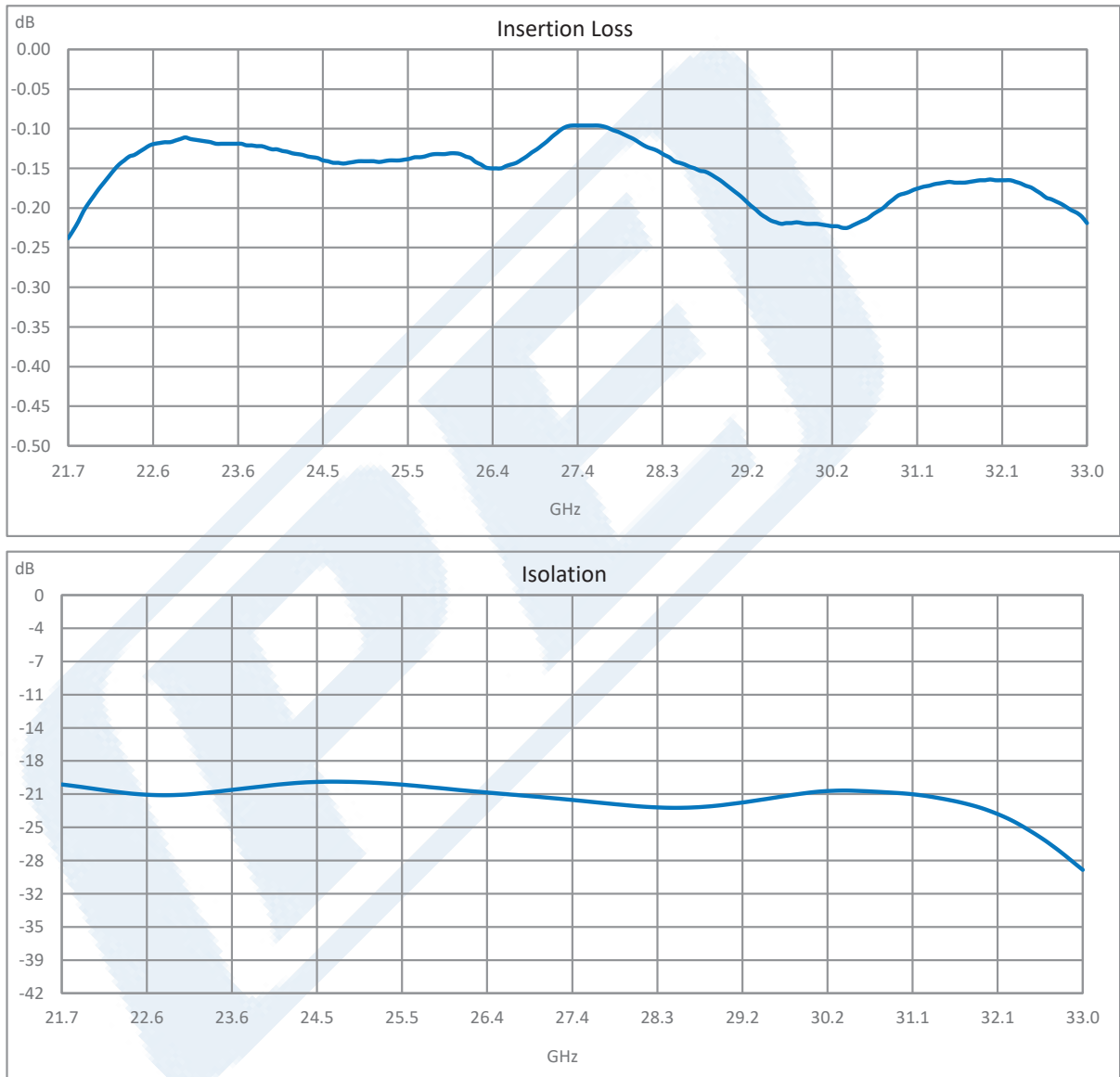
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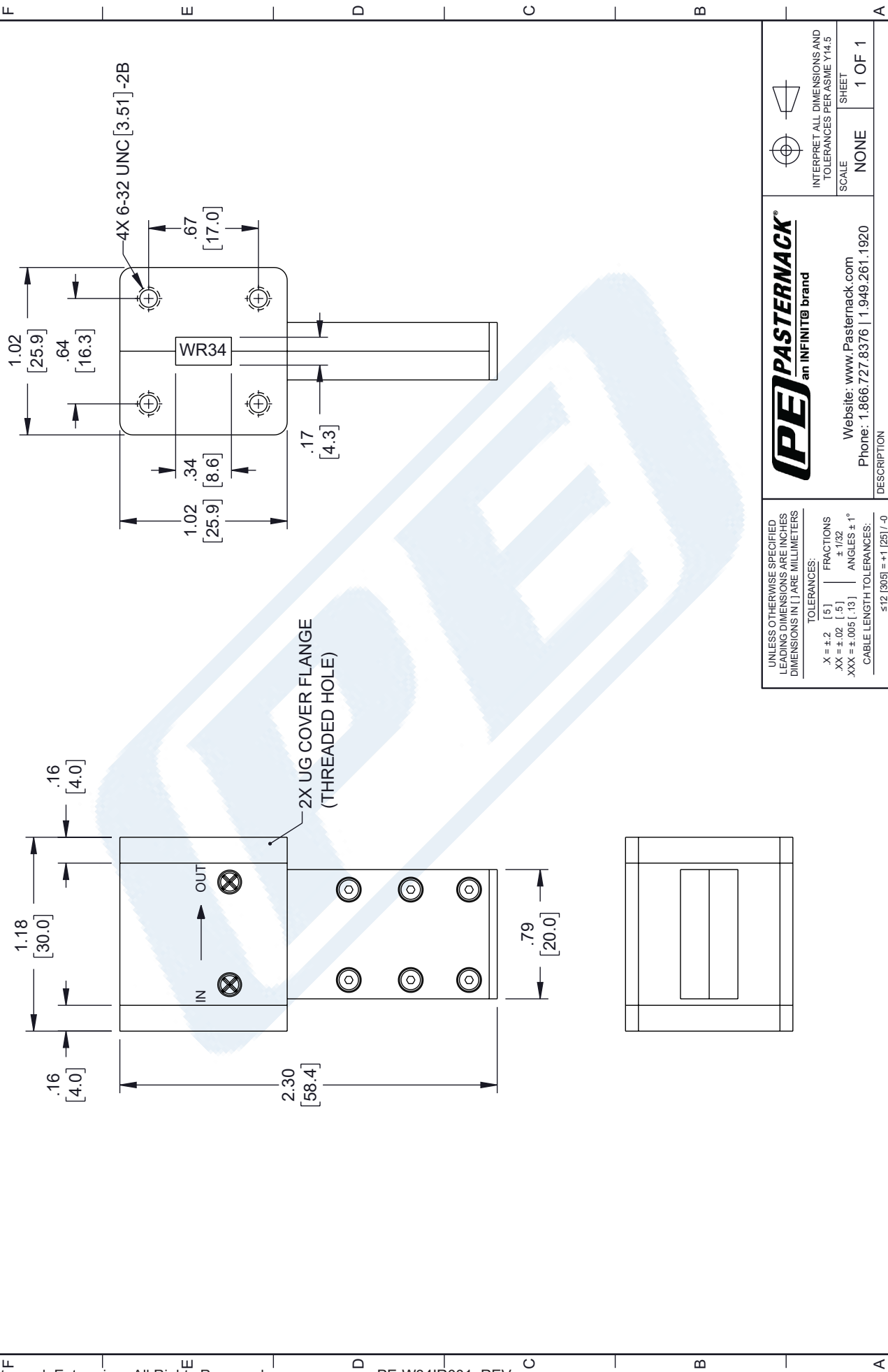
WR-34 Waveguide Isolator from 21.7 GHz to 33 GHz, 18 dB min Isolation, Cover Flange, Aluminum from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-34 Waveguide Isolator from 21.7 GHz to 33 GHz, 18 dB min Isolation, Cover Flange, Aluminum PE-W34IR001](https://www.pasternack.com/wr34-waveguide-isolator-33ghz-18db-pe-w34ir001-p.aspx)

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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.

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PASTERNAK® an INFINITI® brand		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		DESCRIPTION	
 INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5		SCALE NONE		SHEET 1 OF 1	
WR-34 WAVEGUIDE ISOLATOR, 21.7~33GHZ					
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES. DIMENSIONS IN [] ARE MILLIMETERS.		TOLERANCES: $X = +.2$ $XX = \pm .02$ $XXX = \pm .005$ FRACTIONS [.5] [.132] [.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] = $\pm 5\%$ / -0	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.					
SIZE A	CAGE CODE 53919	DRAWN BY DMAY	ITEM NO. PE-W341R001	REV A	

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