WR-34 Waveguide Standard Gain Horn Antenna
Operating from 22 GHz to 33 GHz with a Nominal
10 dBi Gain with UG-1530/U Square Cover Flange

Waveguide Antennas Technical Data Sheet   PE9851B-10

Features

- WR-34 Rectangular Waveguide Interface
- 22 GHz to 33 GHz
- 10 dBi Nominal Gain
- UG-1530/U Cover Flange

Applications

- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems

Description

The PE9851B-10 WR-34 Proline series standard gain horn antenna (also known as waveguide horn) from Pasternack has a nominal gain of 10 dBi. This WR-34 standard gain horn has a UG-1530/U type flange. The Pasternack 10 dBi WR-34 horn antenna operates from 22 GHz to 33 GHz. The WR-34 PE9851B-10 waveguide horn is US made and TAA compliant. It is part of over 40,000 RF, microwave and millimeter wave components available from Pasternack.

Waveguide standard gain horn antennas are used in a wide variety of applications due to their high power handling capability, low loss, high directivity, and near constant electrical performance. Pasternack's WR-34 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Our WR-34 standard gain horn Proline antennas can ship worldwide the same day as it is purchased as with our other available RF parts.

Configuration

Design	WR-34 Standard Gain Horn
Pattern	Directional
Polarization	Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	22		33	GHz
Impedance		50		Ohms
Nominal Gain		10		dB
VSWR		1.5:1		

Mechanical Specifications

Size

Length	1.05 in [26.67 mm]
Width	0.875 in [22.23 mm]
Height	0.875 in [22.23 mm]

Waveguide Interface

Waveguide Size	WR-34
Flange Type	Square Cover

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 Standard Gain Horn Antenna Operating from 22 GHz to 33 GHz with a Nominal 10 dBi Gain with UG-1530/U Square Cover Flange PE9851B-10

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Flange Designation	UG-1530/U
Body Material and Plating	Aluminum

Compliance Certifications (see product page for current document)

Plotted and Other Data

WR-34 Waveguide Standard Gain Horn Antenna Operating from 22 GHz to 33 GHz with a Nominal 10 dBi Gain with UG-1530/U Square Cover Flange 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 Standard Gain Horn Antenna Operating from 22 GHz to 33 GHz with a Nominal 10 dBi Gain with UG-1530/U Square Cover Flange PE9851B-10
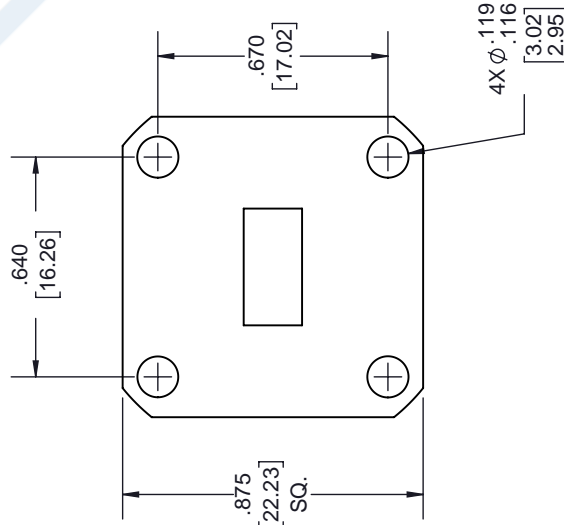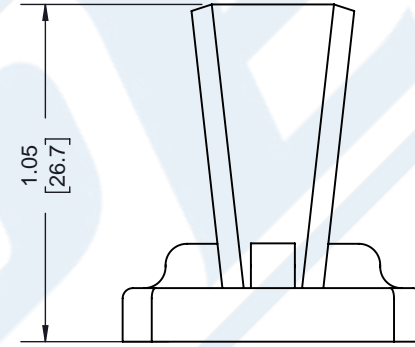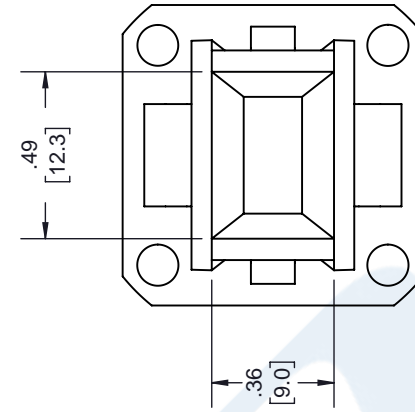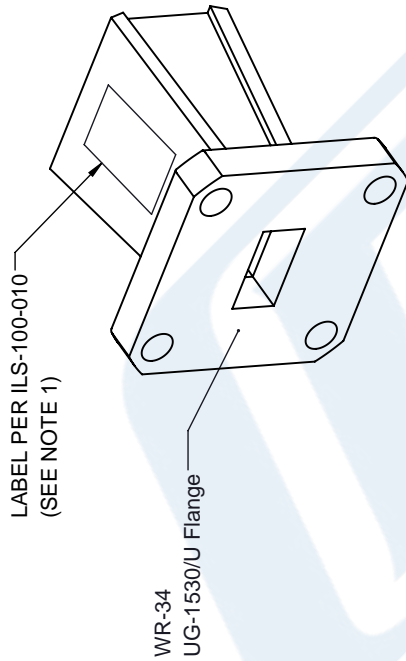
URL: https://www.pasternack.com/wr-34-waveguide-gain-horn-antenna-10db-ug-1530-square-flange-pe9851b-10-p.aspx

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.

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PE9851B-10 CAD Drawing

WR-34 Waveguide Standard Gain Horn Antenna Operating from 22 GHz to 33 GHz with a Nominal 10 dBi Gain with UG-1530/U Square Cover Flange

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/03/2020	KHIETPAS

.49 [12.3]

.36 [9.0]

LABEL PER ILS-100-010 (SEE NOTE 1)

WR-34 UG-1530/U Flange

1.05 [26.7]

.670 [17.02]

.640 [16.26]

.875 [22.23] SQ.

4X ⌀ .119 .116 [3.02] [2.95]

THIRD-ANGLE PROJECTION

| SHEET | 1 | OF | 1 |

SCALE N/A

REV A

PASTERNACK
an INFINITE brand

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| SIZE A | CAGE CODE 53919 | DRAWN BY BPUCHASKI | ITEM NO. PE9851B-10 |

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

TOLERANCES:
.X = ± .2 [5.08]
.XX = ± .02 [.51]
.XXX = ± .005 [.13]

FRACTIONS ± 1/32
ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:
L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

NOTES:

1. LABEL PER ILS-100-10 (FOR INTERNAL REFERENCE ONLY)
   LABEL LOCATION FOR REFERENCE ONLY

T-Rev.D