

WR-22 Waveguide Dual Polarized Horn Antenna, 33 GHz to 50 GHz Frequency Range, 15 dBi Nominal Gain, UG-383/U Flange



PEWAN022-15OMT

Features

- WR-22 rectangular waveguide interface
- Precisely machined
- Gold plated copper Body
- Linear/Circular polarization
- 33 GHz to 50 GHz, gain 15 dBi
- UG-383/U flange
- Min. VSWR < 1.3 :1
- Excellent repeatability

Applications

- Antenna measurements
- Microwave radio systems
- Wireless communications
- Radome, automotive, satellite antenna testing
- Laboratory use
- Near-field measurements

Description

The PEWAN022-15OMT from Pasternack is a waveguide probe antenna, often known as a waveguide horn, and is just one of several waveguide components we provide. This dual polarized horn is manufactured with a WR-22 waveguide size. Our WR-22 probe antenna is constructed with a UG-383/U flange and built to precise RF/microwave/millimeter waveguide horn antenna design specifications.

Pasternack's WR-22 waveguide antenna with UG-383/U flange has a 15 dBi nominal gain and is currently available for purchase. Our WR-22 15 dBi gain dual polarized horn has a minimum frequency of 33 GHz and a maximum frequency of 50 GHz. This waveguide WR-22 probe horn antenna has a typical vertical beam width of 33 degrees and a horizontal beam width of 28 degrees at 3 dB.

The PEWAN022-15OMT waveguide horn antenna with linear/circular polarization has a typical VSWR of 1.3:1 and is suitable for test and measurement industries. This high-quality 15 dBi gain WR-22 probe antenna has a copper body with gold plating. The dual polarized horn with a UG-383/U flange can operate at temperatures ranging from -40 to 85 degrees C.

In the given datasheet specifications, you can find more information about this WR-22 probe waveguide horn with a 33–50 GHz frequency range. This waveguide probe antenna is part of over one million RF, microwave, and millimeter wave components in stock. Our part number PEWAN022-15OMT dual polarized horn is ready for same-day purchase and shipping worldwide. Pasternack also stocks a wide array of other waveguide products that ship the same day from our warehouse for all your RF/microwave and millimeter waveguide component needs.

Configuration

Design	WR-22 Probe
Polarization	Linear/Circular

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	33		50	GHz
Nominal Gain		15		dBi
Horizontal Half Power Beam Width		28		Degrees
Vertical Half Power Beam Width		33		Degrees
VSWR		1.3:1		

Mechanical Specifications

Size	
Length	2.03 in [51.56 mm]

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Width	0.8 in [20.32 mm]
Height	0.8 in [20.32 mm]
Weight	0.63 lbs [285.76 g]

Waveguide Interface

Waveguide Size	WR-22
Flange Designation	UG-383/U
Body Material and Plating	Copper, Gold

Environmental Specifications

Temperature

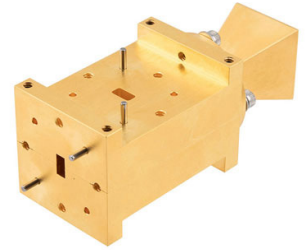
Operating Range	-40 to 85 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

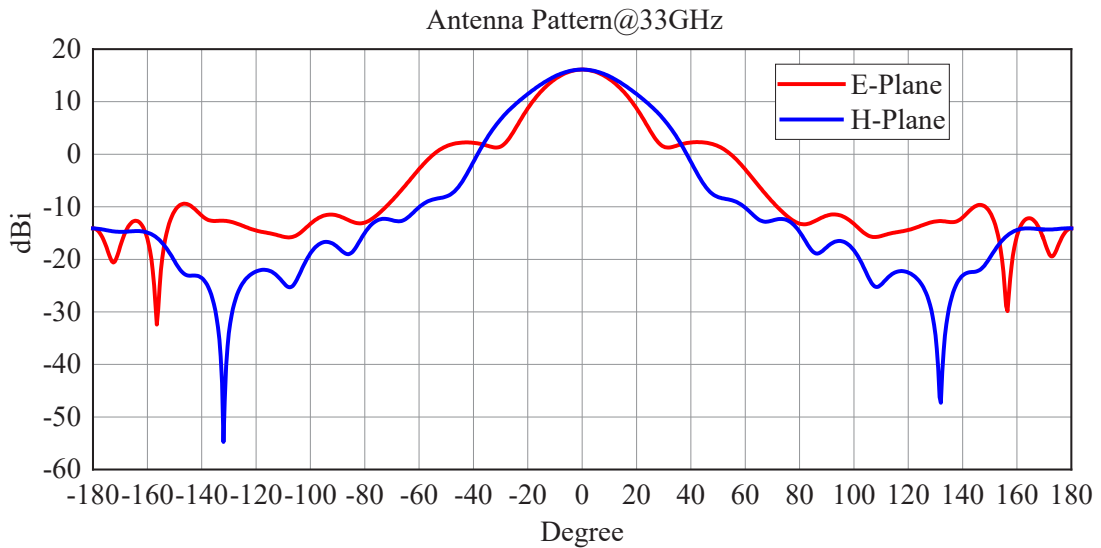
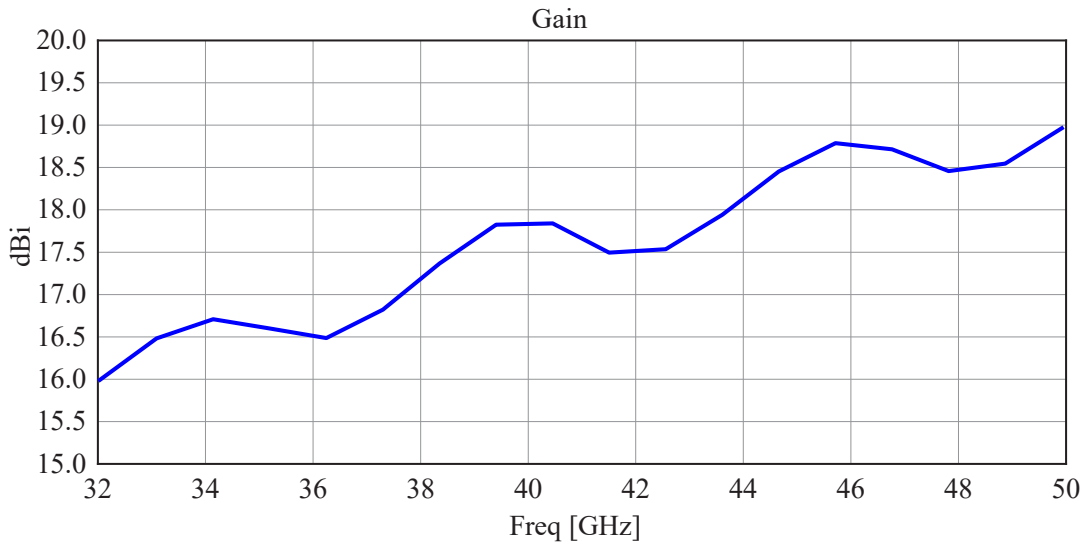
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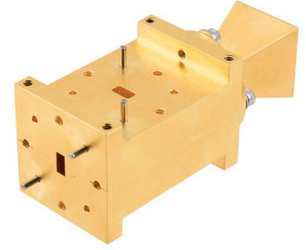
PEWAN022-15OMT

Typical Performance Data

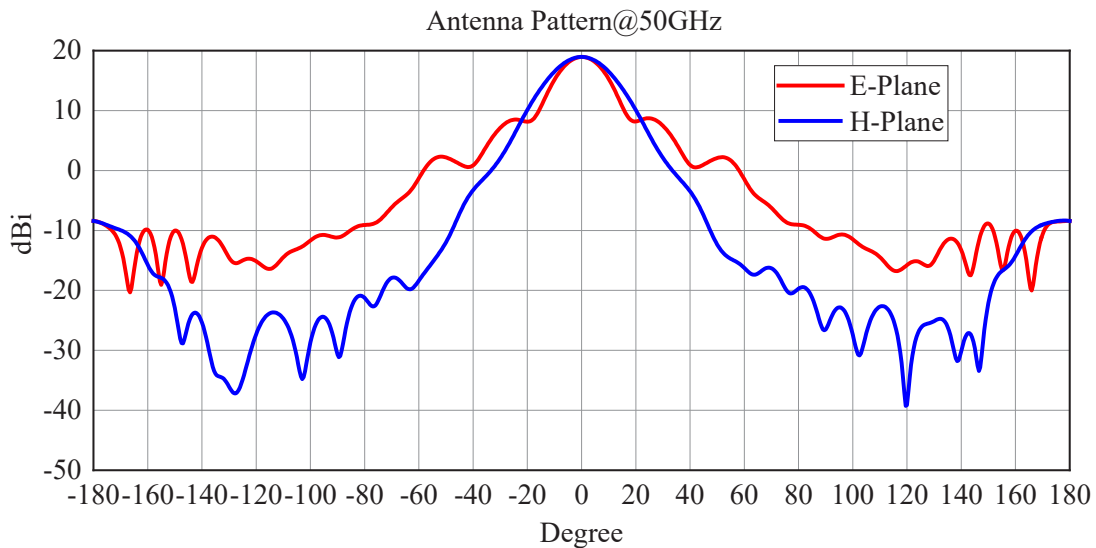
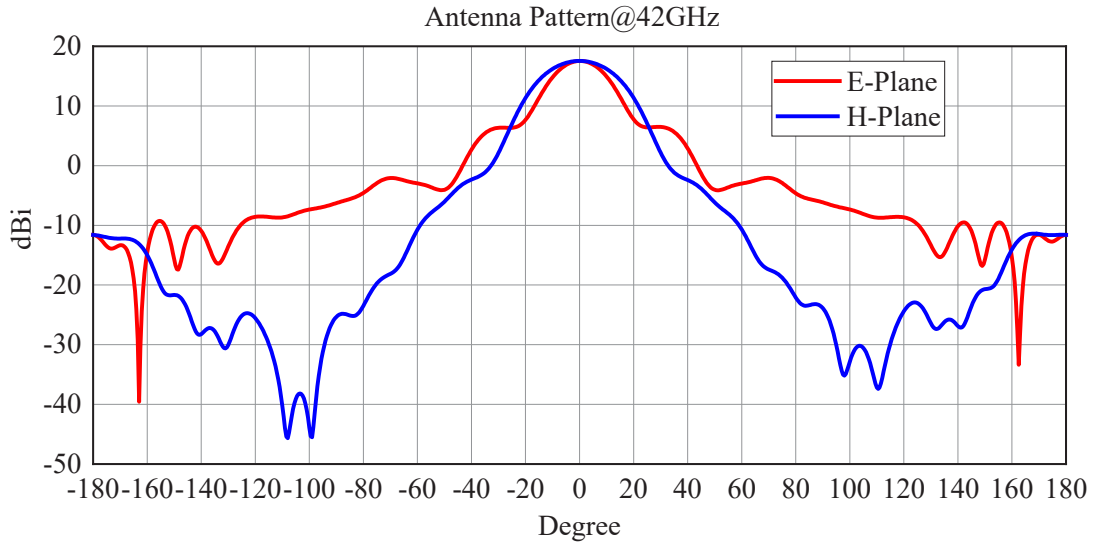
Gain:



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WR-22 Waveguide Dual Polarized Horn Antenna, 33 GHz to 50 GHz Frequency Range, 15 dBi Nominal Gain, UG-383/U 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.

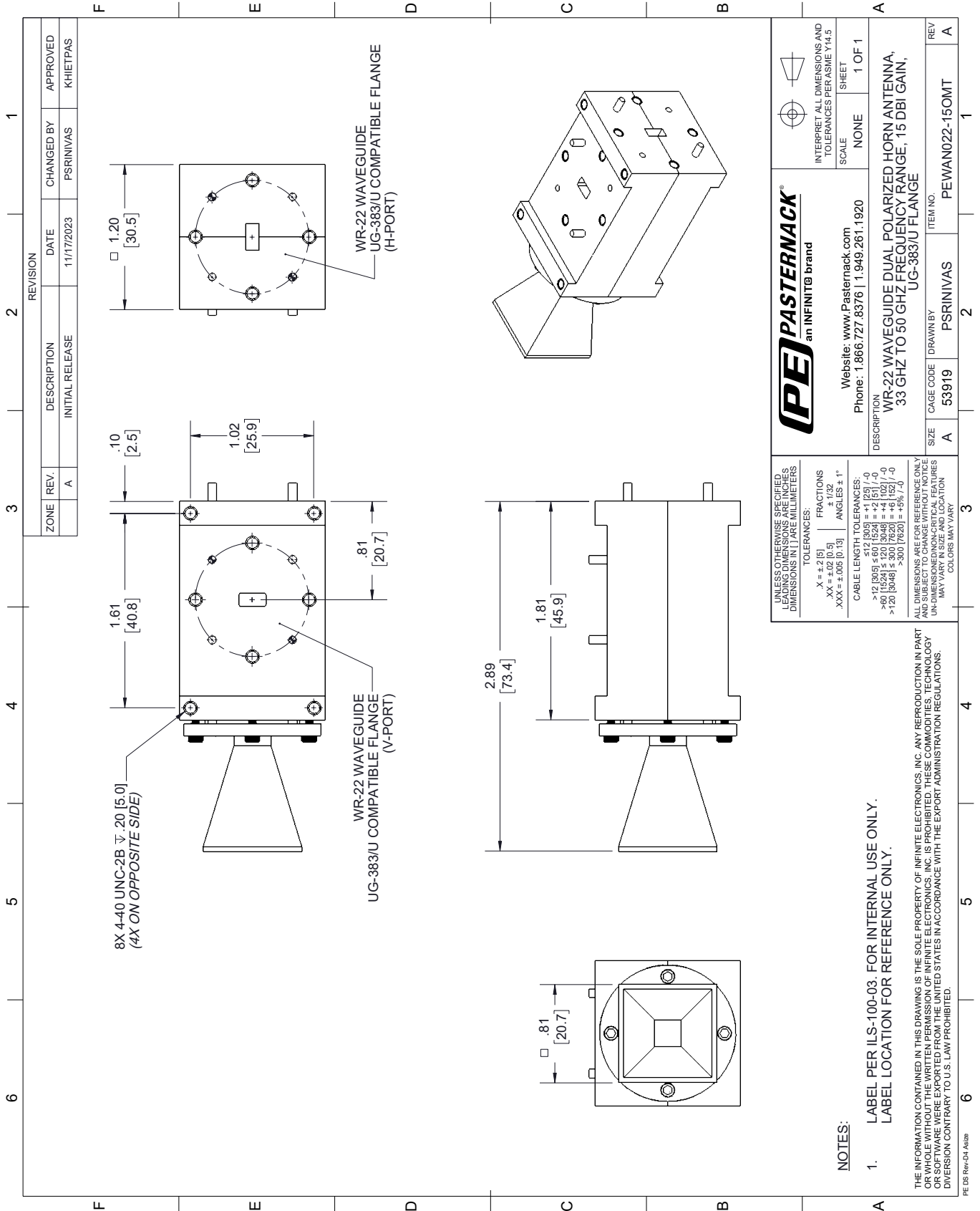
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-22 Waveguide Dual Polarized Horn Antenna, 33 GHz to 50 GHz Frequency Range, 15 dBi Nominal Gain, UG-383/U Flange PEWAN022-15OMT](https://www.pasternack.com/wr-22-waveguide-standard-gain-horn-15-dbi-ug-383-pewan022-15omt-p.aspx)

URL: <https://www.pasternack.com/wr-22-waveguide-standard-gain-horn-15-dbi-ug-383-pewan022-15omt-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PEWAN022-15OMT CAD Drawing

WR-22 Waveguide Dual Polarized Horn Antenna, 33 GHz to 50 GHz
 Frequency Range, 15 dBi Nominal Gain, UG-383/U Flange



PE PASTERNAK
an INFINITE brand

Website: www.Pasternack.com
 Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION
**WR-22 WAVEGUIDE DUAL POLARIZED HORN ANTENNA,
 33 GHz TO 50 GHz FREQUENCY RANGE, 15 DBI GAIN,
 UG-383/U FLANGE**

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.

TOLERANCES:
 X = ±.2(5) FRACTIONS ± 1/32
 .XX = ±.02 (0.5) ANGLES ± 1°
 .XXX = ±.005 (0.13)

CABLE LENGTH TOLERANCES:
 >12 (305) ±.60 (15.24) = ±.2(5) / -0
 >60 (1524) ±.120 (3048) = ±.4(10) / -0
 >120 (3048) ±.300 (7620) = ±.6(15) / -0
 >300 (7620) ±.900 (22860) = ±.9(23)

ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE SHEET 1 OF 1

SIZE	A	53919	PSRINIVAS	PEWAN022-15OMT
CAGE CODE				
DRAWN BY				
ITEM NO.				