



4.9-5.8 GHz 17 dBi Dual Polarity Yagi MIMO Antenna

Antennas Technical Data Sheet

PE51YA1006

Features

- MIMO - Multiple-Input and Multiple-Output
- Dual Polarity feed system in single enclosure
- UV-resistant radome for all-weather operation
- Two integral N-Female connectors

Applications

- 4.9/5.1/5.3/5.4/5.8 GHz Wireless LAN systems
- MIMO PtMP 1x2, 2x2 base station
- Supports IEEE 802.11 a/n applications
- Homeland Security and Public Safety band
- WiMAX, WISP, WiFi, Mobile Communication

Description

The HyperLink PE51YA1006 Yagi Antenna combines vertical and horizontal polarization with high gain over a broadband frequency in a single enclosure. It is a professional quality antenna designed primarily for MIMO point-to-multipoint applications in the 4.9 GHz to 5.8GHz frequency bands.

This antenna incorporates advanced dual polarization technology that allows for the interoperability of two radio transmit and receive paths. This technology allows for the attenuation of unwanted signals from adjacent channels and/or co-located equipment. This antenna features a heavy-duty UV-resistant plastic radome for all-weather operation. The PE51YA1006 antenna is supplied with a stainless steel tilt and swivel mast mount kit. This allows installation at various degrees of up/down tilt for easy alignment.

Configuration

Design	Yagi
Band Type	Wide
Radiation Pattern	Directional
Polarization	Vertical or Horizontal
Connector Type	N Female
Interface 2	N Female
Number of Ports	2
Lightning Protection	DC Ground

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		17		dBi
Front to Back Ratio		18		dB
Input Power			50	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	4,900-5,850					MHz
Gain	17					dBi
Horizontal Beam Width	22					Degees

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.9-5.8 GHz 17 dBi Dual Polarity Yagi MIMO Antenna PE51YA1006](#)



4.9-5.8 GHz 17 dBi Dual Polarity Yagi MIMO Antenna

Antennas Technical Data Sheet

PE51YA1006

Vertical Beam Width	23	Degees
Maximum Input Power	50	Watts

Mechanical Specifications

Radome Material

ABS

Size

Overall Length

13.58 in [344.93 mm]

Width

4.57 in [116.08 mm]

Height

2.56 in [65.02 mm]

Weight

0.81 lbs [367.41 g]

Environmental Specifications

Wind Loading

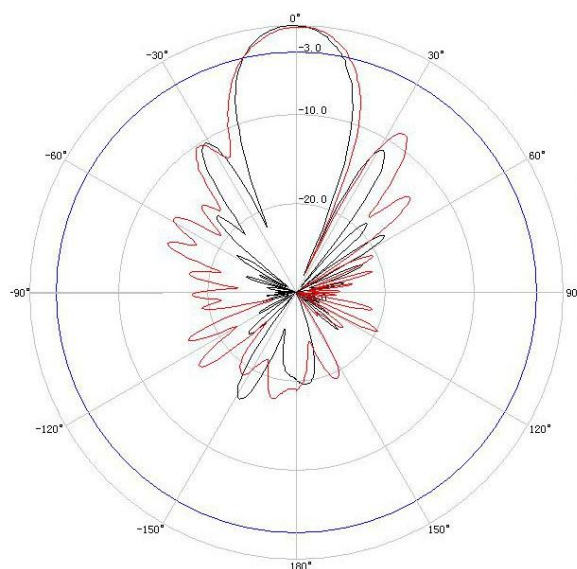
130 MPH [209.21 KPH]

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

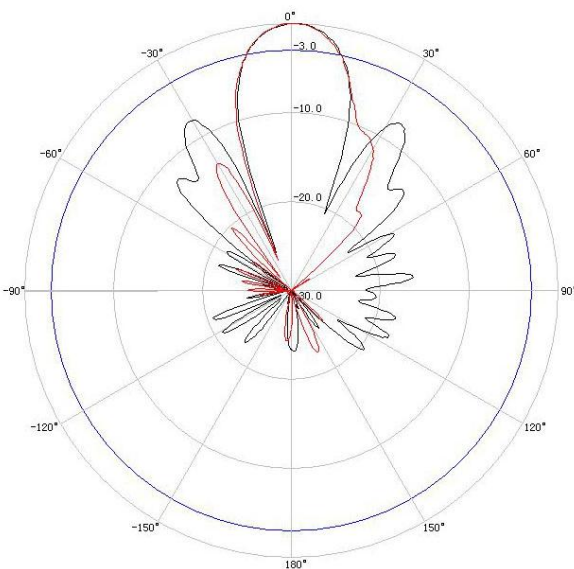
Plotted and Other Data

Notes:

Antenna Patterns



Horizontal



Vertical

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.9-5.8 GHz 17 dBi Dual Polarity Yagi MIMO Antenna PE51YA1006](#)



4.9-5.8 GHz 17 dBi Dual Polarity Yagi MIMO Antenna

Antennas Technical Data Sheet

PE51YA1006

4.9-5.8 GHz 17 dBi Dual Polarity Yagi MIMO Antenna 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.

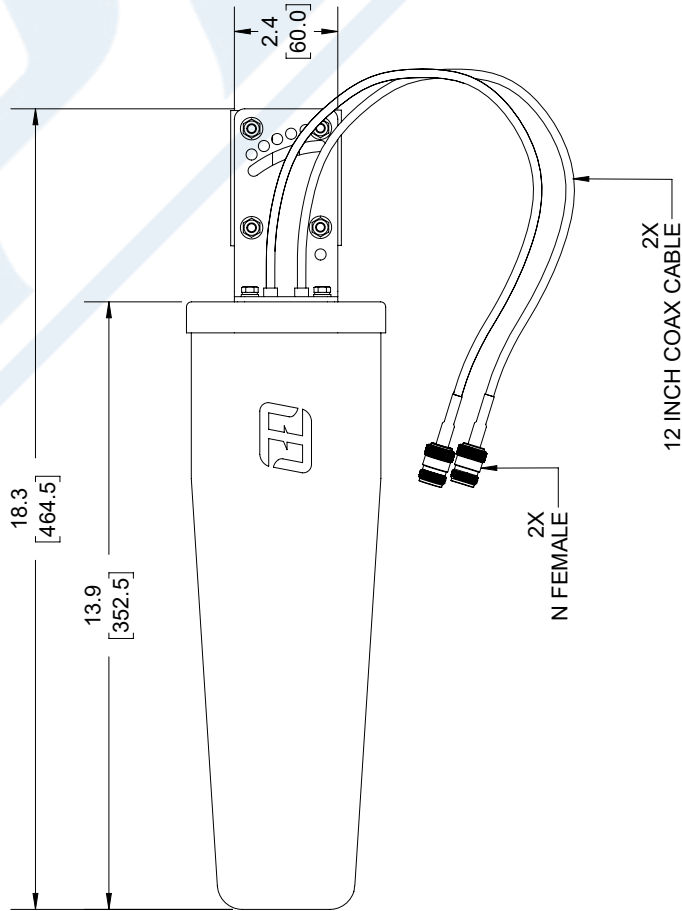
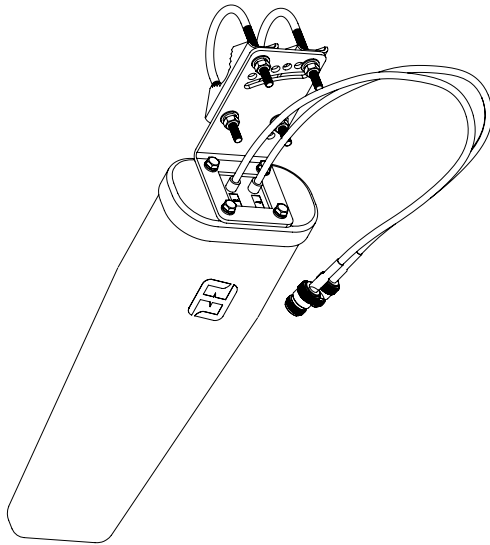
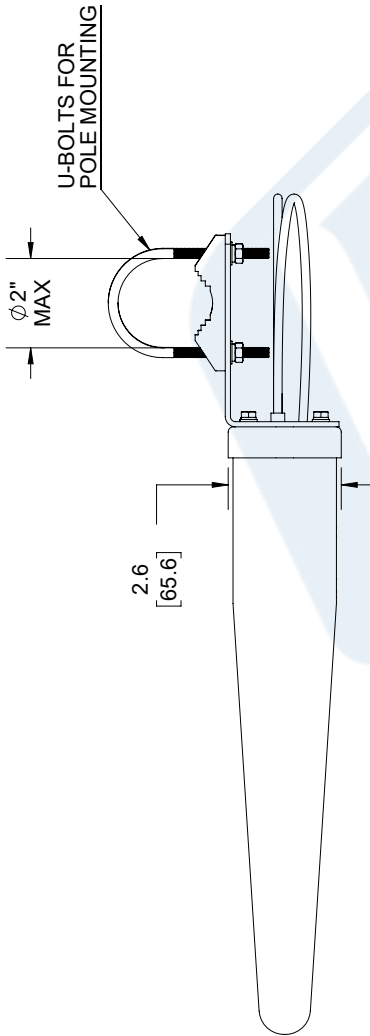
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.9-5.8 GHz 17 dBi Dual Polarity Yagi MIMO Antenna PE51YA1006](https://www.pasternack.com/wide-antenna-17-dbi-gain-n-pe51ya1006-p.aspx)

URL: <https://www.pasternack.com/wide-antenna-17-dbi-gain-n-pe51ya1006-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.

PE51YA1006 CAD Drawing
4.9-5.8 GHz 17 dBi Dual Polarity Yagi MIMO Antenna

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	2/20/2020	M.MILLER



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

TOLERANCES:
X = ± .2 [5.08] FRACTIONS
.XX = ± .02 [.51] ± 1/32
.XXX = ± .005 [.13] 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% / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

PE PASTERNAK
an INFINITI® brand

Pasternack Enterprises, Inc.
P.O. Box 16759, Irvine, CA 92623.
Phone: 1.949.261.1920 | 1.866.727.8376
Fax: 1.949.261.7451
Website: www.pasternack.com
E-mail: sales@pasternack.com

SIZE CAGE CODE DRAWN BY ITEM NO. REV
A 53919 BPUCHASKI PE51YA1006 A

THIRD-ANGLE PROJECTION

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

SHEET 1 OF 1
SCALE N/A

REGULATORY COMPLIANCE:
EU RoHS DIRECTIVE (MOST RECENT RELEASED VERSION)

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE
WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.