



Antennas Technical Data Sheet

PE51YA1001

Features

- 12 inch coax lead terminated with a N-Female Connector
- UV-stable, UL flame rated radome with 60° beam-width
- · DC Short lightning protection

- Light weight, & includes tilt and swivel mast mount
- Can be installed for either vertical or horizontal polarization

Applications

- · 2.4 GHz ISM Band
- IEEE 802.11b, 802.11g, IEEE 802.11n Wireless LAN applications
- · Directional and multipoint applications
- · Bluetooth® & public wireless hotspot
- · WiFi & wireless video systems

Description

The HyperGain PE51YA1001 Radome Enclosed Yagi WiFi Antenna features high gain and a 60° beam-width. It is ideally suited for directional and multipoint IEEE 802.11b, 802.11g and 802.11n wireless LANs, Bluetooth®, public wireless hotspot applications and other systems operating in the 2.4GHz ISM band. The unique design of this antenna allows it to be installed for either vertical or horizontal polarization.

This WiFi antenna is enclosed within a UV-stable, UL flame rated radome for all-weather operation. The PE51YA1001 antenna is supplied with a 60 degree tilt and swivel mast mount kit.

Configuration

Design
Band Type
Radiation Pattern
Polarization
Cable Type
Cable Length
Connector Type

Number of Ports

Lightning Protection

Electrical Specifications

Input VSWR

Impedance

Gain Input Power

Description Minimum Typical Maximum Units 1.5:1 50 Ohms 9 dBi 50 Watts

Yagi

Single

Directional

Coax Cable

N Female

DC Short

Vertical or Horizontal

12 in [304.8 mm]

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2,400-2,500					MHz
Gain	9					dBi
Horizontal Beam Width	60					Degees

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2.4 GHz 9 dBi Yagi Antenna PE51YA1001

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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Vertical Beam Width	60	Degees
Maximum Input Power	50	Watts

Mechanical Specifications

Radome Material Polymer

Size

 Overall Length
 6 in [152.4 mm]

 Width
 3 in [76.2 mm]

 Height
 3 in [76.2 mm]

Mounting Mast Diameter 1.25 to 2 in [31.75 to 50.80 mm]

Weight 1.4 lbs [635.03 g]

Mechanical Specification Notes:

Radome material is UV -inhibited Polymer.

Environmental Specifications

Temperature

Operating Range -20 to +60 deg C Wind Loading 150 MPH [241.4 KPH]

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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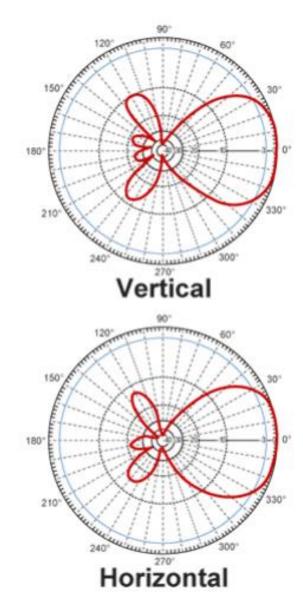




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Typical Radiation Pattern



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PE51YA1001

2.4 GHz 9 dBi Yagi 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.

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URL: https://www.pasternack.com/single-antenna-9-dbi-gain-n-pe51ya1001-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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PE51YA1001 CAD Drawing

2.4 GHz 9 dBi Yagi Antenna

