

2.4 GHz 12 dBi Yagi Antenna



Antennas Technical Data Sheet

PE51YA1002

Features

- 12 inch coax lead terminated with a N-Female Connector
- UV-stable, UL flame rated radome with 45° beam-width
- · DC Short lightning protection

- · 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
- · Directional and multipoint applications

- · Bluetooth® & Public Wireless Hotspot
- · WiFi & wireless video systems

Description

The HyperGain PE51YA1002 Radome Enclosed Yagi WiFi Antenna features high gain and a 45° 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 PE51YA1002 antenna is supplied with a 60 degree tilt and swivel mast mount kit.

Configuration

DesignYagiBand TypeSingleRadiation PatternDirectionalPolarizationVertical or

Polarization Vertical or Horizontal
Cable Type Coax Cable
Cable Length 12 in [304.8 mm]

Connector Type N Female Number of Ports 1

Lightning Protection DC Short

Electrical Specifications

Des	cription	Minimum	Typical	Maximum	Units
Input VSWR				1.5:1	
Impedance			50		Ohms
Gain			12		dBi
Input Power				50	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2,400-2,500					MHz
Gain	12					dBi
Horizontal Beam Width	45					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 12 dBi Yagi Antenna PE51YA1002

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	45	Degees
Maximum Input Power	50	Watts

Mechanical Specifications

Radome Material Polymer

Size

 Overall Length
 11.2 in [284.48 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 0.95 lbs [430.91 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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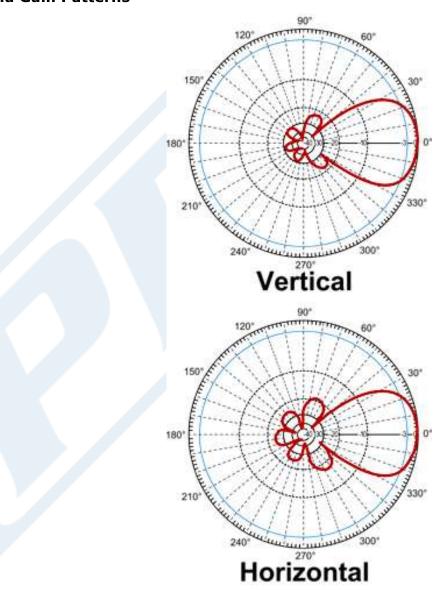
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RF Antenna Gain Patterns



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URL: https://www.pasternack.com/single-antenna-12-dbi-gain-n-pe51ya1002-p.aspx

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PE51YA1002 CAD Drawing

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