

2.4 GHz 12 dBi Stainless Steel Yagi Antenna



Antennas Technical Data Sheet

PE51YA1004

Features

- · Stainless steel construction
- 40° beam-width
- DC Short lightning protection

Applications

- · 2.4 GHz ISM Band
- IEEE 802.11b, 802.11g Wireless LAN
- IEEE 802.11n (Pre-N, Draft-N, MIMO) Applications
- · Includes tilt and swivel mast mount
- · 7 inch coax lead terminated with a N-Female connector
- · Bluetooth® & Public Wireless Hotspot
- · WiFi & Wireless Video Systems

Description

The HyperGain PE51YA1004 WiFi Yagi Antenna features high gain and a 40° beam-width with a 7 inch coax lead terminated with a N-Female connector. 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.

This antenna features a heavy-duty 1/2" stainless steel boom and solid 1/8" stainless steel elements which ensures superior durability and long performance life in all weather conditions. The PE51YA1004 antenna is supplied with a tilt and swivel mast mount kit. This mounts provides 0-20 degree up or down tilt in 10 degree increments.

Configuration

Design Yagi Band Type Single Radiation Pattern Directional Vertical Polarization Cable Type Coax Cable Cable Length 7 in [177.8 mm] Connector Type N Female Number of Ports Lightning Protection DC Short

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		12		dBi
Front to Back Ratio		18		dB
Input Power			100	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2,400-2,483					MHz
Gain	12					dBi
Horizontal Beam Width	40					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 Stainless Steel Yagi Antenna PE51YA1004

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Vertical Beam Width	40	Degees
Maximum Input Power	100	Watts

Mechanical Specifications

Radome Material ABS

Size

Overall Length 22.8 in [579.12 mm]

Mounting Mast Diameter 1.5 to 2.3 in [38.10 to 58.42 mm]

Weight 2.4 lbs [1.09 kg]

Environmental Specifications

Temperature

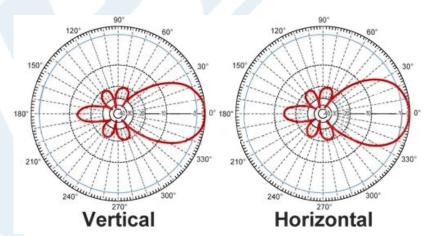
Operating Range -40 to +85 deg C Wind Loading 124 MPH [199.56 KPH]

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Antenna Gain Patterns



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PE51YA1004

2.4 GHz 12 dBi Stainless Steel 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-12-dbi-gain-n-pe51ya1004-p.aspx

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PE51YA1004 CAD Drawing

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