

900 MHz 9 dBi Al Yagi Antenna

Antennas Technical Data Sheet

PE51YA1009

Features

- 9 dBi gain & all weather Anodized Aluminum construc-
- · Can be installed for either vertical or horizontal polarization
- Solid Aluminum 1/8" elements
- Heavy-duty 1/2" Aluminum boom
- 15 inch coax lead & 1/8" thick plated steel mounting plate

Applications

- 900MHz ISM Band & Wireless LAN systems
- Point to multipoint & Non Line of Sight (NLOS) applications
- · 900MHz Cellular and GSM
- RFID & SCADA
- · LPWAN, LoRA, IoT, M2M

Description

The HyperGain PE51YA1009 High-Performance Yagi Antenna in an economical package combines accurate gain with a wide beam-width, ideally suited for directional applications in the 900 MHz ISM and GSM bands. This series of Yagi antennas provides the user with anodized aluminum boom, solid elements, low loss series 400 COAX, and rugged mounting hardware.

Configuration

Design Band Type Radiation Pattern Polarization Cable Type Cable Length Connector Type Number of Ports Lightning Protection

Yagi Wide Directional

Vertical or Horizontal

400 series 15 in [381 mm] N Female

DC Short

Electrical Specifications

Description	Minimum	Tombook	Mandanan	I Indian
Description	Minimum	Typical	Maximum	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		9		dBi
Front to Back Ratio		15		dB
Input Power			100	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	824-960					MHz
Gain	9					dBi
Horizontal Beam Width	53					Degees
Vertical Beam Width	42					Degees
Maximum Input Power	100					Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 900 MHz 9 dBi Al Yagi Antenna PE51YA1009

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Mechanical Specifications

Radome Material ABS

Size

 Overall Length
 26.8 in [680.72 mm]

 Mounting Mast Diameter
 2 in [50.80 mm]

 Weight
 1.9 lbs [861.83 g]

Environmental Specifications

Temperature

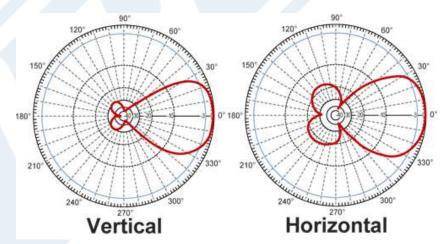
Operating Range -40 to +85 deg C Wind Loading 135 MPH [217.26 KPH]

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

RF Antenna Gain Patterns



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900 MHz 9 dBi Al 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/wide-antenna-9-dbi-gain-n-pe51ya1009-p.aspx

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PE51YA1009 CAD Drawing

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