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# 900 MHz 13 dBi SS Yagi Antenna

#### Antennas Technical Data Sheet

# PE51YA1013

#### **Features**

- 13 dBi gain & all weather, heavy duty steel construction provides superior performance
- Heavy-duty 1/2" stainless steel boom
- Solid Stainless Steel 1/8" elements & 18 inch coax lead
- Can be installed for either vertical or horizontal polarization
- 1/8" thick plated steel mounting plate

## **Applications**

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

#### Description

The PE51YA1013 High-Performance Yagi Antenna combines high gain with a wide beam-width. They are ideally suited for directional applications in the 900MHz ISM and GSM bands. Typical applications include 900MHz Wireless LAN, SCADA, LPWAN, LoRA, IoT, M2M, and 900 MHz Cellular, Non Line of Sight (NLOS) applications and point to multi-point systems. External interference of this antenna is minimized due to the excellent front to back ratio. These antennas come with a 18" coax lead terminated with an N-Female connector. It can be installed for either vertical or horizontal polarization.

This antenna features a heavy-duty 1/2" stainless steel boom and solid 1/8" elements. Secure mounting is assured by a 1/8" thick plated steel mounting plate and two plated steel U-bolts.

#### Configuration

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

Yagi Wide Directional

Vertical or Horizontal 18 in [457.2 mm] N Female

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DC Short

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		13		dBi
Front to Back Ratio		18		dB
Input Power			100	Watts

#### Specifications by Band

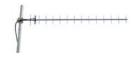
Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	890-960					MHz
Gain	13					dBi

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 900 MHz 13 dBi SS Yagi Antenna PE51YA1013

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Horizontal Beam Width	30	Degees
Vertical Beam Width	30	Degees
Maximum Input Power	100	Watts

## **Mechanical Specifications**

Radome Material ABS

Size

 Overall Length
 57 in [144.78 cm]

 Mounting Mast Diameter
 2 in [50.80 mm]

 Weight
 5.1 lbs [2.31 kg]

#### **Environmental Specifications**

**Temperature** 

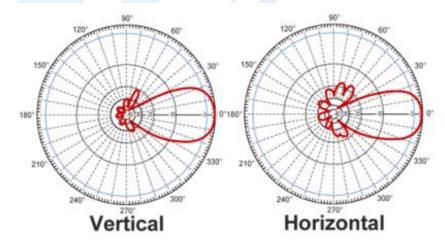
Operating Range -40 to +85 deg C

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

#### **Typical Radiation Pattern**



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900 MHz 13 dBi SS 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-13-dbi-gain-n-pe51ya1013-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.

# PE51YA1013 CAD Drawing

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