

400 MHz to 470 MHz, Heavy-Duty Yagi Antenna, 10dBi, N-female

Antennas Technical Data Sheet

PE51YA1015

Features

- Aircraft Quality 6061-T6 Aluminum with 5/16" Elements Welded to a 1" Boom
- Powder-Coated Black for Corrosion, Fade, and Ice-Build Up Resistance
- Can be Installed for Either Vertical or Horizontal Polarization
- Comes with N-Type Female Connectors

Applications

- 400-470 MHz, Wireless Communications Systems
- LORA Wireless Data Collection Systems
- 450 MHz CDMA
- GMRS
- SCADA
- Family Radio Service 2-Way
- UHF Business Band

Description

The Pasternack 400 MHz to 470 MHz PE51YA1015 Yagi antenna ships the same day and is designed for the most rugged conditions. This 400 MHz antenna provides 10 dBi of gain and adjustable polarization. The PE51YA1015 is ideally suited for 400 MHz and 450 MHz bands. Equipped with an N-Female connector, coaxial connections to a radio are simple and easy. This 10 dBi antenna supports Land Mobile Radio, northern border areas, Public Safety, Industrial and Business applications.

Measuring 38.4 inches long, the PE51YA1015 with N-female connectors from Pasternack is manufactured using robust 5/16" aircraft quality aluminum elements. The PE51YA1015 elements are completely welded to a 1" boom and painted black. This ensures performance and survivability in the toughest environments.

400 MHz Yagi antennas from Pasternack are high-quality components backed by expert technical support and sales personnel. Like the other RF components at Pasternack, the 10 dBi PE51YA1015 is ready to ship the same day.

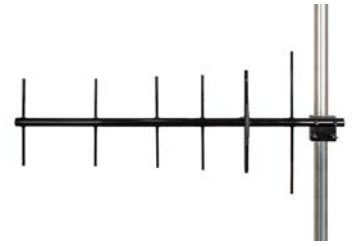
Configuration

Design	Yagi
Band Type	Single
Radiation Pattern	Directional
Polarization	Linear
Connector Type	N Female
Number of Ports	1
Housing Material and Plating	Aluminum, Powder Coat

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	400		470	MHz
Input VSWR		1.7:1		
Impedance		50		Ohms
Gain		10		dBi
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: [400 MHz to 470 MHz, Heavy-Duty Yagi Antenna, 10dBi, N-female PE51YA1015](#)



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Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	400-435	435-470				MHz
Gain	10	10.5				dBi
Horizontal Beam Width	70	65				Degrees
Vertical Beam Width	55	50				Degrees
VSWR Max	1.7:1					

Mechanical Specifications

Housing Material	Aluminum
Housing Plating/Color	Powder Coat
Size	
Overall Length	38.4 in [975.36 mm]
Width	16.5 in [419.1 mm]
Height	4.3 in [109.22 mm]
Mounting Mast Diameter	0.75 to 3 in [19.05 to 76.20 mm]
Weight	12 lbs [5.44 kg]

Environmental Specifications

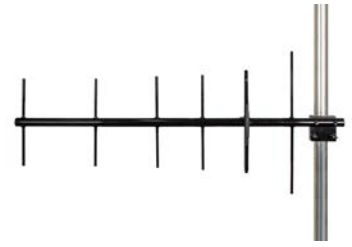
Temperature	
Operating Range	-40 to +60 deg C
Storage Range	-40 to +140 deg C
Wind Loading	200 MPH [321.87 KPH]
ESD Protection	IP55

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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PE51YA1015

400 MHz to 470 MHz, Heavy-Duty Yagi Antenna, 10dBi, N-female 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [400 MHz to 470 MHz, Heavy-Duty Yagi Antenna, 10dBi, N-female PE51YA1015](https://www.pasternack.com/single-antenna-400-470-mhz-10-dbi-gain-n-pe51ya1015-p.aspx)

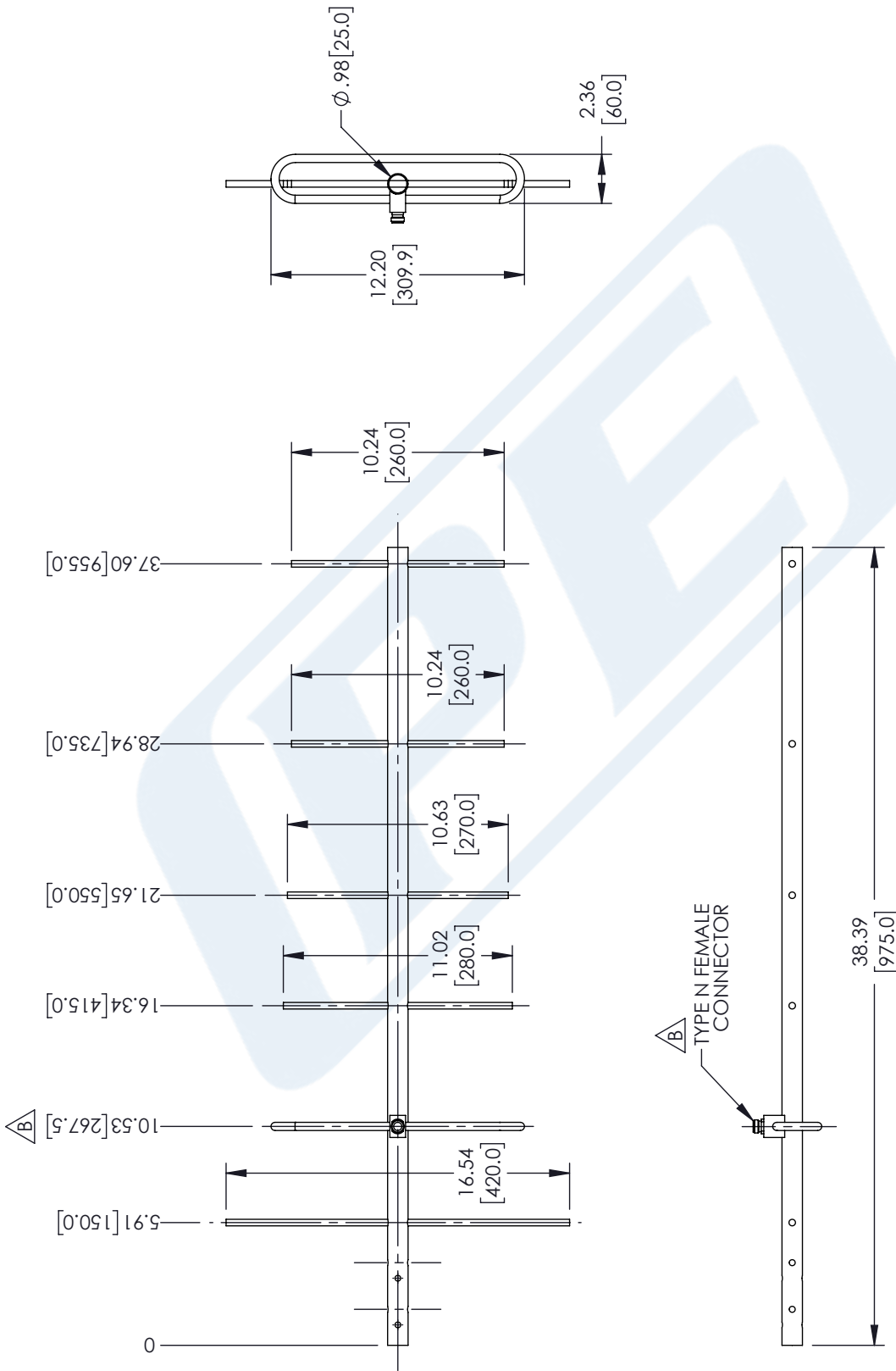
URL: <https://www.pasternack.com/single-antenna-400-470-mhz-10-dbi-gain-n-pe51ya1015-p.aspx>

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.

PE51YA1015 CAD Drawing

400 MHz to 470 MHz, Heavy-Duty Yagi Antenna, 10dBi, N-female

REVISIONS		
REV.	DESCRIPTION	DATE
B	ECN 11043:10.53 WAS 12.80, REMOVED PIGTAIL	04/08/2021
		DZINN



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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV B

ITEM NO. PE51YA1015

DRAWN BY DZINN

SIZE A

CAGE CODE 53919

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

FRACTIONS: X = ±.2 [5.08] ±.1/32
XX = ±.02 [.51] ±.005
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L), TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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