

Collinear Omnidirectional Antenna with 423 to 443 MHz, 8 dBi, N Female, Vertical Polarization, 1 Port, 1.5 VSWR



Antennas Technical Data Sheet

PEANOM1051

Features

- Frequency coverage for 423 MHz to 443 MHz with Type N Female connector
- Moderate Gain 8 dBi / 5.85 dBd antennas
- Easy and quick time to installations
- Industrially tuned antenna allows plug and play

- Environmentally friendly strong fiberglass radome material
- Direct ground lightning protection
- 100 W max input power per port
- Vertical Polarization

Applications

- Outdoor point-to-point (PtP) or point-to-multipoint (PtMP) applications
- UHF radio applications supported with Trunking for two-way radio communications
- Public Safety / Emergency services / Marine communications / Rail road communications

- Tetra and P-25 Applications exclusively supported
- Land Mobile Radio (LMR) and Private Mobile Radio (PMR)
- Fixed and mobile services for paging/voice/data in full duplex and half duplex mode

Description

Pasternack's PEANOM1051 4.5 dBi omnidirectional antenna, with N female connector, is an economical yet high-performance antenna designed for high-power applications. This high gain 4.5 dBi antenna transmits high-power signals, increasing the signal strength and thus providing improved coverage, better-broadcast control, and faster speed. This omnidirectional antenna can output frequencies from 423 to 443 MHz, which is useful for military communications, trunking, public safety, industrial communication, and amateur radio applications.

This omnidirectional antenna from Pasternack PEANOM1051 uses vertical polarization to transmit signals, thus reducing interference and performing better at lower heights. All components of this 4.5 dBi antenna are DC grounded for lightning protection, rugged outdoor design, and have a high-power handling capacity. The omnidirectional antenna has 1 port to connect an external circuit with 100W maximum input power per port.

Pasternack's PEANOM1051 omnidirectional antenna is made of fiberglass, is omnidirectional, and covers good bandwidth and range. It has a 1.5 VSWR that results in the best power transfer and reduced losses. These 423 to 443 MHz VHF/UHF antennae radiates equal power in all directions perpendicular to the axis, with power declining to zero on the axis, when graphed, the radiation pattern describes a doughnut shape. It comes with a N female connector, which is threaded and weatherproof that ensuring a reliable physical connection.

This Pasternack's PEANOM1051 with a 4.5 dBi maximum gain is ideal for LMR, military, airports, construction, mining, commercial applications, and radio users. This PEANOM1051 omnidirectional antenna from Pasternack comes in compact packaging for lower shipping costs. Pasternack's 423 to 443 MHz, 4.5 dBi omnidirectional antenna with a N female connector is in stock and ready to ship the same day. Contact Pasternack's knowledgeable and friendly technical support and sales staff for your answers on antennas or other products.

Configuration

Design	Omni
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	N Female
Number of Ports	1
Lightning Protection	DC Ground

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Collinear Omnidirectional Antenna with 423 to 443 MHz, 8 dBi, N Female, Vertical Polarization, 1 Port, 1.5 VSWR PEANOM1051](#)

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8 dBi, N Female, Vertical Polarization, 1 Port, 1.5 VSWR



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	423		443	MHz
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain			8	dBi
Input Power			100	Watts

Mechanical Specifications

Radome Material	Fiberglass
Size	
Overall Length	2.5 in [63.5 mm]
Width	1.2 in [30.48 mm]
Height	1.2 in [30.48 mm]
Weight	6.6 lbs [2.99 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +80 deg C

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

Plotted and Other Data

Notes:

Collinear Omnidirectional Antenna with 423 to 443 MHz, 8 dBi, N Female, Vertical Polarization, 1 Port, 1.5 VSWR 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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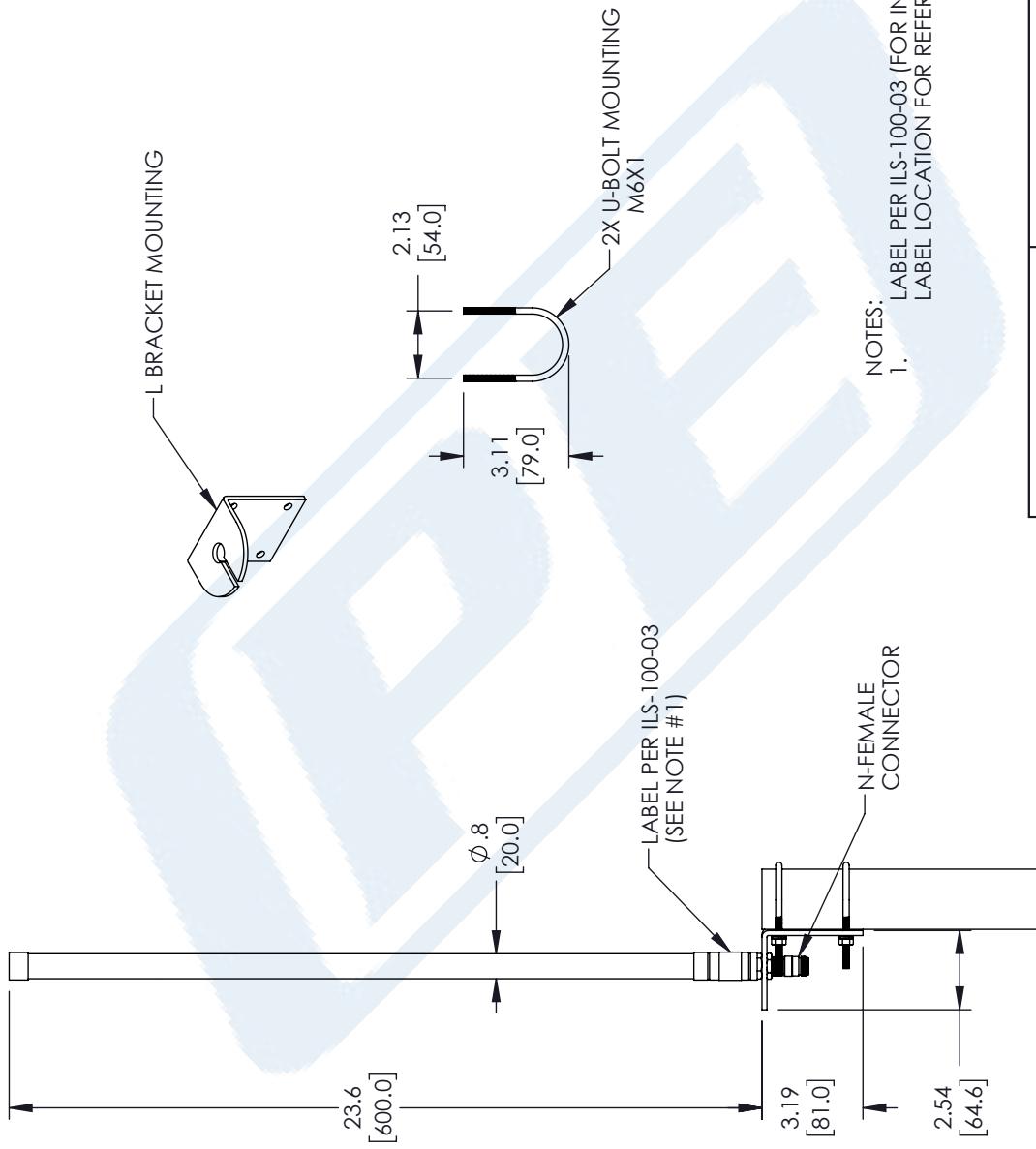
URL: <https://www.pasternack.com/antenna-423-443-mhz-n-type-female-connector-peanom1051-p.aspx>

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.

PEANOM1051 CAD Drawing

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REV.		DESCRIPTION		DATE	APPROVED
A	INITIAL RELEASE	5/5/2022	KHIEETPAS		



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SHEET 1 OF 1		
SCALE N/A		
ITEM NO. PEANOM1051		REV. A

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

TOLERANCES:

X = + .2 [5.08]	FRACTIONS ± 1/32
XX = ± .02 [5.1]	ANGLES ± 1°
XXX = ± .005 [1.3]	CABLE LENGTH (L) TOLERANCES:
L ≤ 12 [305] = +1 [28] / -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%L / -0	

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

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