

400-520 MHz Rubber Duck Antenna, 2.15 dBi gain, SMA-Female Connector, Vertical Polarization

Antennas Technical Data Sheet

PEANRBD1021

Features

- 400 MHz to 520 MHz, 2.15 dBi Gain
- SMA-Female connector
- Heliflex whip antenna
- Plug and play

- 50W power handling
- VSWR < 1.5:1
- Vertical polarization
- Black

Applications

- PtP or PtMP applications
- Trunking for two-way radio comms
- UHF applications
- Public Safety / Emergency services

- Tetra and P-25 applications exclusively supported
- Land and Private mobile radio (LMR) (PMR)
- Fixed and mobile services

Description

Vertical polarized antenna PEANRBD1021 from Pasternack is part of our extensive in-stock omni directional antennas that ship the same day from our ISO 9001:2015 certified facility. The antenna with 400 to 520 MHz frequency range has a maximum input VSWR of 1.5:1. This omni directional antenna has SMA female connector.

This antenna has a black radome made of TPE, an overall length of 5.90 in, width of 0.50 in, and weighs 0.022 lbs. Pasternack's PEANRBD1021 is a single band antenna operating from 400 to 520 MHz with 2.15 dBi gain.

Pasternack's experts are on hand to assist you with any inquiries. Order this PEANRBD1021 antenna 7 days a week, 24 hours a day using our on-line ordering system with no MOQs (minimum order quantity) and same-day shipping.

Configuration

Design
Band Type
Radiation Pattern
Polarization
Connector Type

Rubber Duck
Single
Omni Directional
Vertical
SMA Female

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 400 | | 520 | MHz |
| Input VSWR | | | 1.5:1 | |
| Impedance | 50 | | | Ohms |
| Gain | 2.15 | | | dBi |
| Input Power | | | 50 | Watts |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [400-520 MHz Rubber Duck Antenna, 2.15 dBi gain, SMA-Female Connector, Vertical Polarization PEANRBD1021](#)

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Mechanical Specifications

Radome Material

TPE

Size

Overall Length

5.9 in [149.86 mm]

Width

0.5 in [12.7 mm]

Height

0.5 in [12.7 mm]

Weight

0.022 lbs [9.98 g]

Environmental Specifications

Temperature

Operating Range

-40 to +80 deg C

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

Plotted and Other Data

Notes:

400-520 MHz Rubber Duck Antenna, 2.15 dBi gain, SMA-Female Connector, Vertical Polarization 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: [400-520 MHz Rubber Duck Antenna, 2.15 dBi gain, SMA-Female Connector, Vertical Polarization PEANRBD1021](#)

URL: <https://www.pasternack.com/2.15-dbi-rubber-duck-antenna-400-520-mhz-sma-female-connector-peanrbd1021-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.

PEANRBD1021 CAD Drawing

400-520 MHz Rubber Duck Antenna, 2.15 dBi gain, SMA_B

Female Connector, Vertical Polarization

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| ZONE | REV. | DESCRIPTION | DATE | CHANGED BY | APPROVED BY |
|------|------|-----------------|------------|------------|-------------|
| | A | INITIAL RELEASE | 02/28/2023 | | KHIE TPAS |

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REVISION

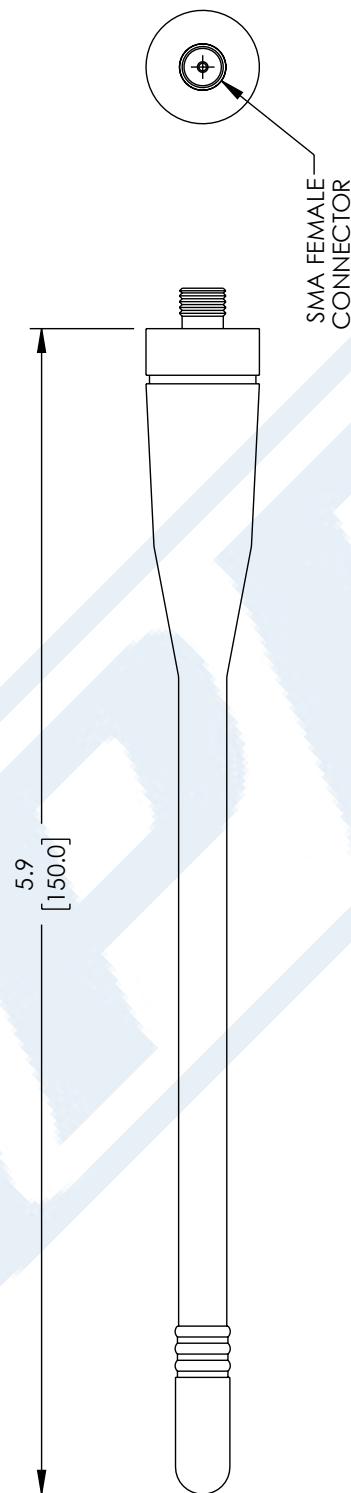
3

4

5

6

5.9
[150.0]



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

TOLERANCES:

$X = \pm .2$ [.5] FRACTIONS
 $.XX = \pm .02$ [.5] $\pm 1/32$
 $XXX = \pm .005$ [.13] ANGLES $\pm 1^\circ$

CABLE LENGTH TOLERANCES:

≤ 12 [305] = ± 1 [25] / -0
 > 12 [305] ≤ 60 [1524] = ± 2 [51] / -0
 > 60 [1524] ≤ 120 [3048] = ± 4 [102] / -0
 > 120 [3048] ≤ 300 [7620] = ± 6 [152] / -0
 > 300 [7620] = $\pm 8\%$ / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE



INTERPRET ALL DIMENSIONS AND
TOLERANCES PER ASME Y14.5

SCALE SHEET
NONE 1 OF 1

DESCRIPTION
400-520 MHz, Rubber duck Antenna, 2.5 dBi, with SMA-Female

ITEM NO. PEANRBD1021 REV
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