



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	Rubber Duck
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	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

Female Connector, Vertical Polarization

REVISION			
ZONE	REV.	DESCRIPTION	DATE
	A	INITIAL RELEASE	02/28/2023
			APPROVED BY
			KHIETPAS

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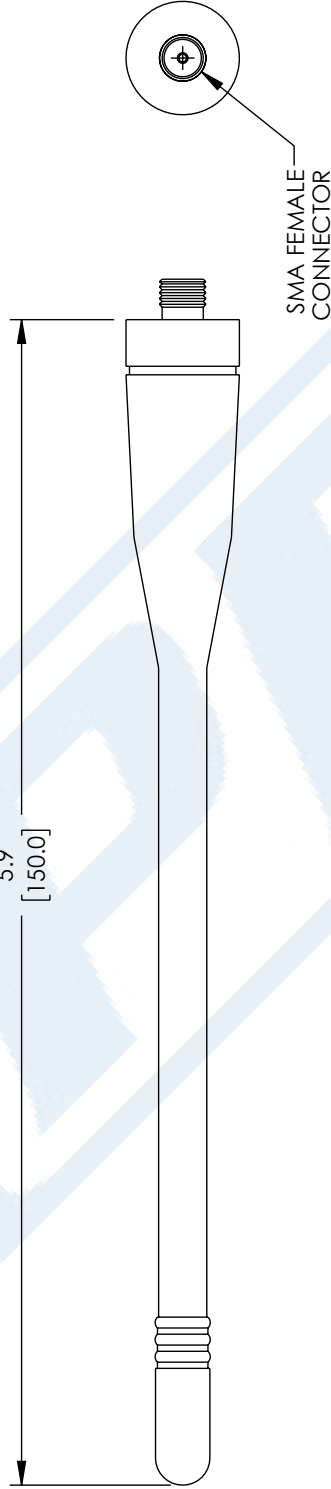
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an INFINITI brand

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Phone: 1.866.727.8376 | 1.949.261.1920

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

TOLERANCES:  
X = ±.2 [ .5 ] FRACTIONS  
.XX = ±.02 [ .5 ] ± 1/32  
XXX = ±.005 [ .13 ] ANGLES ± 1°

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] = +5% / -0

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

INTERPRET ALL DIMENSIONS AND  
TOLERANCES PER ASME Y14.5

SCALE NONE SHEET 1 OF 1

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

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	DFRISIELLO	PEANRBD1021

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