

4.52 dBi Rubber Duck Antenna 2,400-2,500 MHz RP-SMA Connector



Antennas Technical Data Sheet

PE51RD1015

Features

- Flexible "Rubber Duck" Antenna
- · Optional Magnetic Mount Available
- High Performance 4.5 dBi

- · Reverse Polarity SMA Plug Connector
- · Tilt and Swivel Design

Applications

- Multipoint and Mobile Applications & Bluetooth®
- 2.4 GHz ISM Band
- IEEE 802.11b, 802.11g, 802.11x (WiFi 6) Wireless LAN & IEEE 802.11n (Pre-N, Draft-N) Applications
- Public Wireless Hotspot
- · Wireless Video Systems
- IoT Systems

Description

The Pasternack PE51RD1015 is an economical yet high performance omnidirectional "rubber-duck" antenna designed for the 2.4 GHz ISM band. It features a tilt-and-swivel Reverse Polarity SMA (RP-SMA) male connector, allowing them to be used vertically, at a right angle, or any angle in-between. It is a coaxial sleeve design with an omni-directional pattern. It is ideally suited for IEEE 802.11b, 802.11g, 802.11n and 802.11ax (WiFi 6) Wireless LANs, Bluetooth, IoT and other applications.

The high performance PE51RD1015 rubber-duck from Pasternack is a flexible antenna providing broad coverage and 4.5 dBi gain. Measuring 7.7 inches long, this 4.5 dBi antenna makes a great upgrade to OEM supplied antennas. It is suitable as a replacement RF antenna for 2.4 GHz radios that are equipped with RP-SMA connectors.

In addition to shipping the same day, our rubber duck antennas are high-quality components backed by expert technical support and sales personnel. Contact our knowledgeable and friendly technical support and sales staff for your answers on antennas or other Pasternack products.

Configuration

Design Rubber Duck **Band Type** Single Polarization Linear

Connector Type SMA Male Reverse Polarity Number of Ports

Housing Material and Plating TPEE, Black

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 2.4 | | 2.5 | GHz |
| Input VSWR | | | 2:1 | |
| Impedance | | 50 | | Ohms |
| Gain | | 4.52 | | dBi |
| | | | | |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 4.52 dBi Rubber Duck Antenna 2,400-2,500 MHz RP-SMA Connector PE51RD1015

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Mechanical Specifications

TPFF Housing Material Housing Plating/Color Black Radiator Material Copper

Size

Overall Length 7.7 in [195.58 mm] Width 0.51 in [12.95 mm] Height 0.51 in [12.95 mm] Weight 0.5 lbs [226.8 g]

Environmental Specifications

Temperature

Operating Range -40 to +65 deg C -40 to +80 deg C Storage Range

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

4.52 dBi Rubber Duck Antenna 2,400-2,500 MHz RP-SMA Connector 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/single-antenna-2.4-2.5-ghz-4.52-dbi-gain-sma-pe51rd1015-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.

PE51RD1015 CAD Drawing
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