



5 dBi Rubber Duck Antenna 900-930 MHz RP-SMA Connector

Antennas Technical Data Sheet

PE51RD1018

Features

- Better Performance Than Most Stock AP Antennas
- Flexible “Rubber Duck” Antenna
- RP-SMA Plug Connector
- Tilt and Swivel Design

Applications

- 900 MHz Digital Spread Spectrum Radios
- 900 MHz ISM Band
- LPWAN, LoRA, IoT, M2M Applications
- 900 MHz Telemetry Products
- Cellular Band Applications

Description

The Pasternack PE51RD1018 is an economical yet superior performance omnidirectional “rubber-duck” antenna designed for the 900 MHz 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 900MHz ISM band applications as well as cellular and LPWAN applications.

The high performance rubber-duck PE51RD1018 from Pasternack is a flexible antenna providing broad coverage and 5.0 dBi gain. Measuring 15.5 inches long, this 5.0 dBi antenna makes a great upgrade to OEM supplied antennas offering much larger coverage area and stronger signals. It is suitable as a replacement RF antenna for 900 MHz 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	1
Housing Material and Plating	ABS, Black

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	900		930	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain		5		dBi

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: [5 dBi Rubber Duck Antenna 900-930 MHz RP-SMA Connector PE51RD1018](#)



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Mechanical Specifications

Housing Material	ABS
Housing Plating/Color	Black
Radiator Material	Copper

Size

Overall Length	15.51 in [393.95 mm]
Width	0.51 in [12.95 mm]
Height	0.51 in [12.95 mm]
Weight	0.1 lbs [45.36 g]

Environmental Specifications

Temperature

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

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

Plotted and Other Data

Notes:

5 dBi Rubber Duck Antenna 900-930 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [5 dBi Rubber Duck Antenna 900-930 MHz RP-SMA Connector PE51RD1018](#)

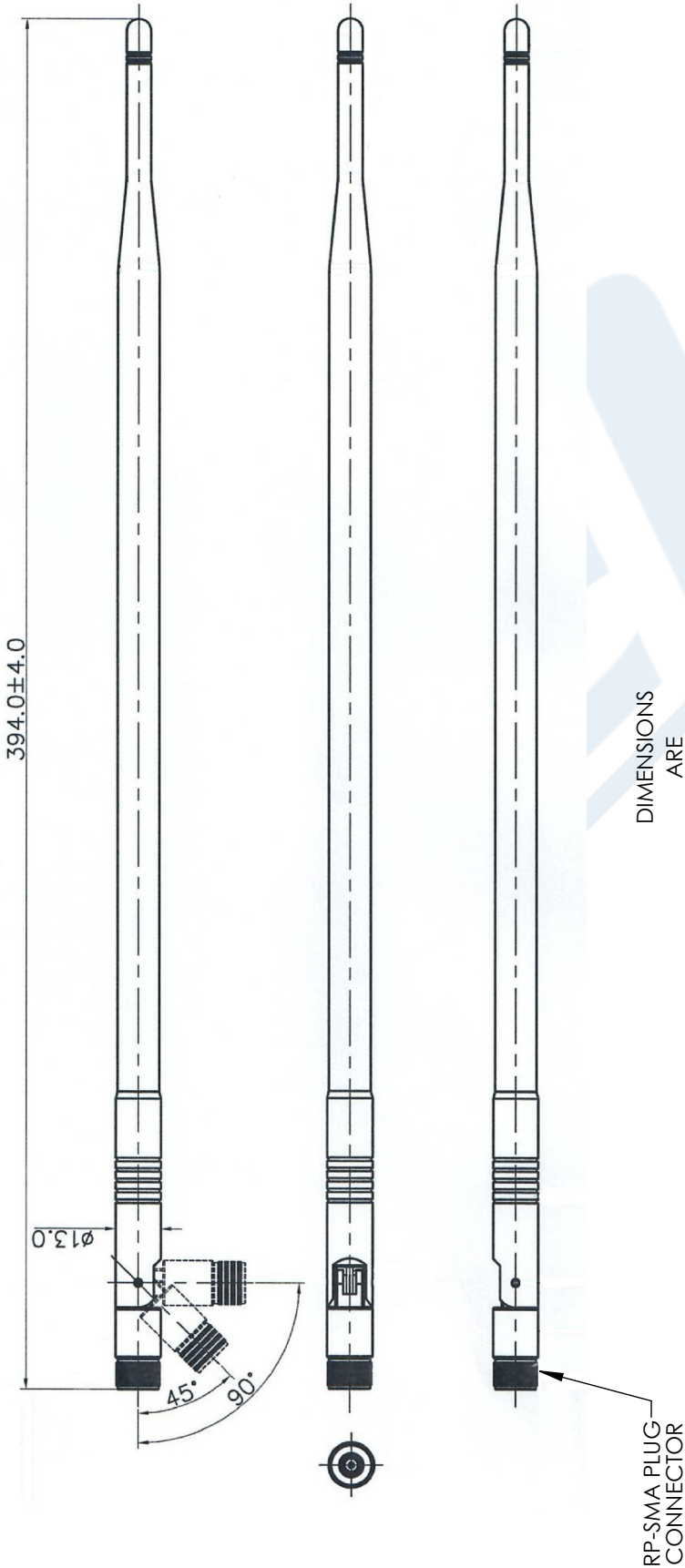
URL: <https://www.pasternack.com/single-antenna-900-930-mhz-5-dbi-gain-sma-pe51rd1018-p.aspx>

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.

PE51RD1018 CAD Drawing

5 dBi Rubber Duck Antenna 900-930 MHz RP-SMA Connector

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	09/14/2020	KHIETPAS



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

TOLERANCES:

X = ± .2	[.008]	FRACTIONS
.XX = ± .02	[.51]	± 1/32
.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.

PE PASTERNAK
an INFINITI® brand

Pasternack Enterprises, Inc.
P.O. Box 16759, Irvine, CA 92623.
Phone: 1.949.261.1920 | 1.866.727.8376
Fax: 1.949.261.7451
Website: www.pasternack.com
E-mail: sales@pasternack.com

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

SIZE A

CAGE CODE 53919

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ITEM NO. PE51RD1018

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