



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

### Antennas Technical Data Sheet

PE51RD1011

#### Features

- 900 MHz Omnidirectional
- RP-SMA Plug Connector
- Flexible Rubber Duck Antenna
- Tilt and Swivel Design

#### Applications

- 900 MHz Digital Spread Spectrum Radios
- 900 MHz ISM Band
- 900 MHz Telemetry Products
- Cellular Band Applications

#### Description

Measuring 15.4" long, the Pasternack PE51RD1011 high performance 900 MHz omnidirectional "rubber-duck" antenna provides broad coverage and 5 dBi gain. 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.

PE51RD1011 from Pasternack features a tilt-and-swivel Reverse Polarity SMA-Plug (RP-SMA) connector, allowing them to be used vertically, at a right angle, or any angle in-between. This rubber duck antenna, as well as our wide selection of superior quality RF devices, ship same day. Contact our knowledgeable and friendly technical support and sales staff for your answers on antennas or other Pasternack products.

#### Configuration

Application Band	RFID  LPWAN  ISM
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	SMA Plug Reverse Polarity
Number of Ports	1
Lightning Protection	DC Ground

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	900		930	MHz
Input VSWR			2.5:1	
Impedance		50		Ohms
Gain		5		dBi
Horizontal (Azimuth) Beam Width		360		Degrees
Vertical (Elevation) Beam Width		30		Degrees
Input Power			50	Watts

#### Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.9 to 0.93					GHz
Gain	5					dBi
Horizontal Beam Width	360					Degrees
Vertical Beam Width	30					Degrees

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 PE51RD1011](#)



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Maximum Input Power 50 Watts

#### Mechanical Specifications

##### Size

Overall Length	15 in [381 mm]
Width	0.5 in [12.7 mm]
Height	0.5 in [12.7 mm]
Weight	0.13 lbs [58.97 g]

#### Environmental Specifications

##### Temperature

Operating Range	-40 to +55 deg C
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**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 PE51RD1011](#)

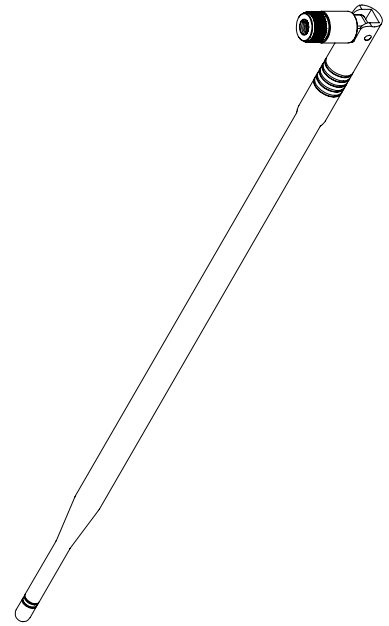
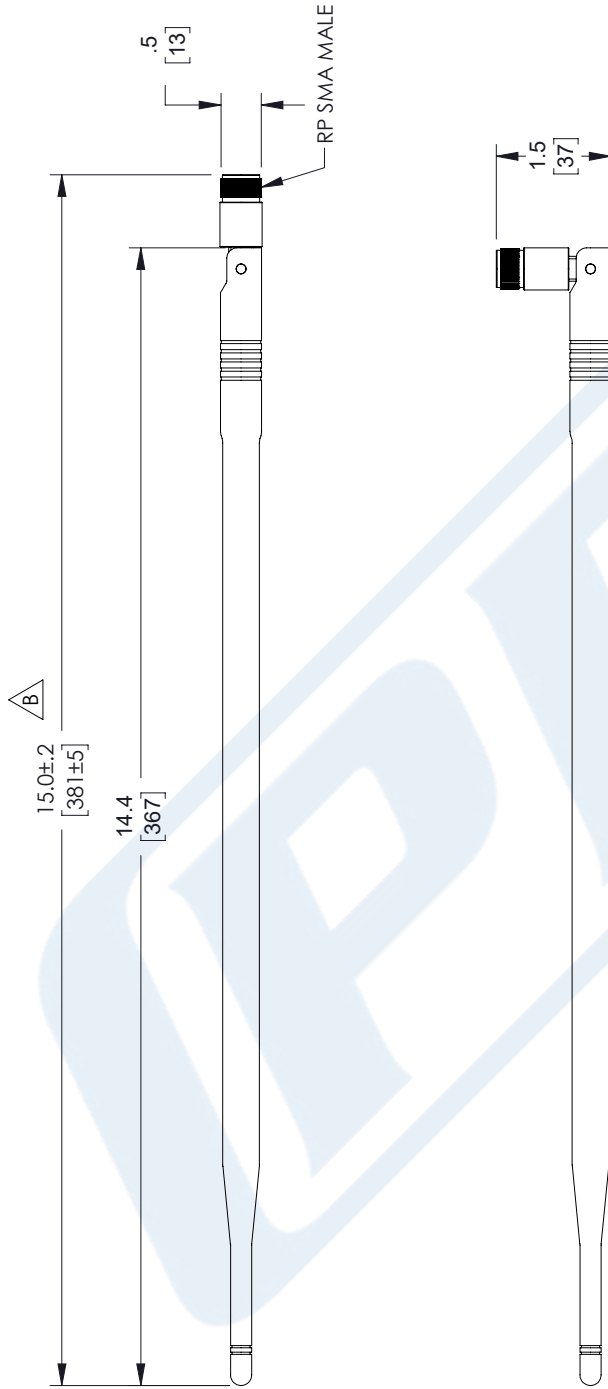
URL: <https://www.pasternack.com/single-antenna-900-930-mhz-5-dbi-gain-sma-pe51rd1011-p.aspx>

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.

# PE51RD1011 CAD Drawing

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

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	UPDATE DIMENSIONS	3/15/2022	K.HIETPAS



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

**TOLERANCES:**

.X = ± 2	[5.08]	FRACTIONS	
.XX = ± 0.02	[.51]		± 1/32
.XXX = ± 0.005	[.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<sup>B</sup> 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

SIZE A CAGE CODE 53919 DRAWN BY KDANG ITEM NO. PE51RD1011 REV B

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1  
SCALE N/A

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