



2.4/4.9/5.8 GHz 3 dBi Multi-band Rubber Duck Antenna - SMA-Male Connector

Antennas Technical Data Sheet

PE51RD1004

Features

- Three frequency ranges in one antenna
- Flexible rubber duck design
- Provides better performance than most stock access point antennas
- Tilt and swivel design
- SMA Male connector

Applications

- 2.4 GHz, 4.9 GHz and 5.8 GHz band applications
- IEEE 802.11a/b/g/n and 802.11ac WiFi access points and routers
- 4.9 GHz homeland security, public safety services, fire, police and security applications
- 5.8 GHz wireless video and security systems

Description

The HyperLink PE51RD1004 series is a high performance tri-band rubber-duck antenna designed to operate from 2.4 GHz to 2.5 GHz, 4.9 GHz to 5.3 GHz and 5.7 GHz to 5.8 GHz which eliminates the need to purchase different antennas for each frequency. The tri-band design of this antenna helps reduce interference and noise since it will reject out-of-band signals between the three bands of this antenna. This omnidirectional “rubber-duck” antenna provides broad coverage and 3 dBi gain.

Measuring 7.79” long, this flexible antenna features a tilt-and-swivel connector which allows them to be used vertically, at a right angle, or any angle in-between. It is suitable as a replacement RF antenna for many wireless access points and routers that are equipped with similar type antennas. The PE51RD1004 features a SMA Male connector.

Configuration

Design	Rubber Duck
Band Type	Multi
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	SMA Male Reverse Polarity
Number of Ports	1

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input VSWR			2:1	
Impedance		50		Ohms
Gain		3		dBi
Input Power			50	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2,400-2,500	4,900-5,350	5,725-5,850			MHz
Gain	3	3	3			dBi
Horizontal Beam Width	360	360				Degees
Vertical Beam Width	70	70				Degees

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: [2.4/4.9/5.8 GHz 3 dBi Multi-band Rubber Duck Antenna - SMA-Male Connector PE51RD1004](#)

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Antenna - SMA-Male Connector



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Mechanical Specifications

Size

Overall Length	7.79 in [197.87 mm]
Width	0.51 in [12.95 mm]
Height	0.51 in [12.95 mm]
Weight	0.6 lbs [272.16 g]

Environmental Specifications

Temperature

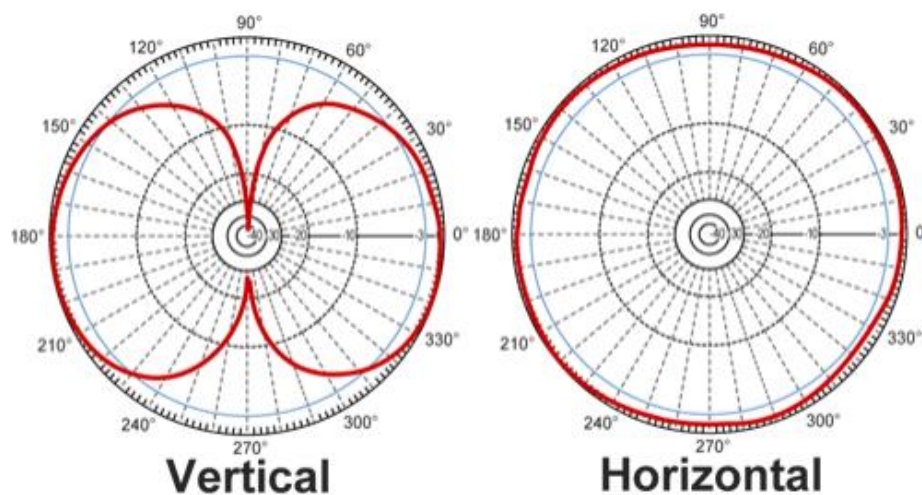
Operating Range	-40 to +60 deg C
Environment	UL-94HB

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

Plotted and Other Data

Notes:

Typical Radiation Pattern



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PE51RD1004

2.4/4.9/5.8 GHz 3 dBi Multi-band Rubber Duck Antenna - SMA-Male 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: [2.4/4.9/5.8 GHz 3 dBi Multi-band Rubber Duck Antenna - SMA-Male Connector PE51RD1004](https://www.pasternack.com/multi-antenna-3-dbi-gain-sma-pe51rd1004-p.aspx)

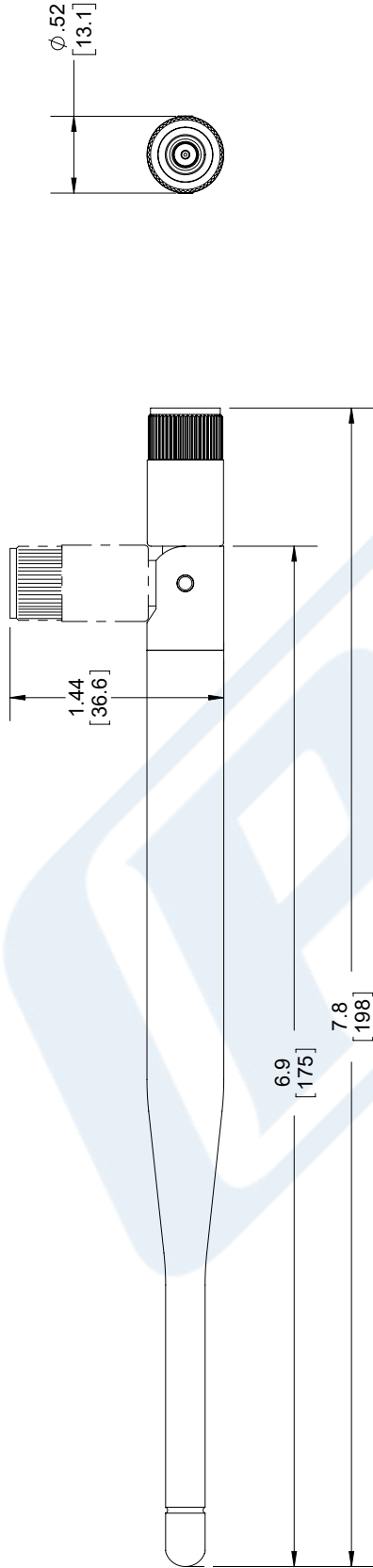
URL: <https://www.pasternack.com/multi-antenna-3-dbi-gain-sma-pe51rd1004-p.aspx>

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PE51RD1004 CAD Drawing

2.4/4.9/5.8 GHz 3 dBi Multi-band Rubber Duck Antenna - SMA-Male Connector

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	2/18/2020	M.MILLER



SMA MALE
CONNECTOR

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

TOLERANCES:

.X = ± .2 [5.08] 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% L / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

PE PASTERNAK
an INFINITI® brand

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	K.DANG	PE51RD1004	A

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EU ROHS DIRECTIVE (MOST RECENT RELEASED VERSION)

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