



2.4/4.9/5.8 GHz 3 dBi Multi-band Rubber Duck Antenna - RP-TNC Plug Connector

Antennas Technical Data Sheet

PE51RD1001

Features

- Three frequency ranges in one antenna
- Flexible rubber duck design
- Tilt and swivel design
- Reverse Polarity TNC (RP-TNC) Plug connector
- Provides better performance than most stock access point antennas

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 PE51RD1001 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 HG2458RD-RTP features a Reverse Polarity TNC Plug connector.

Configuration

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

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input VSWR			2:1	
Impedance		50		Ohms
Gain		3		dBi
Isolation	25			dB
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				Degrees
Vertical Beam Width	70	70				Degrees

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 - RP-TNC Plug Connector PE51RD1001](#)

2.4/4.9/5.8 GHz 3 dBi Multi-band Rubber Duck
Antenna - RP-TNC Plug Connector



Antennas Technical Data Sheet

PE51RD1001

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

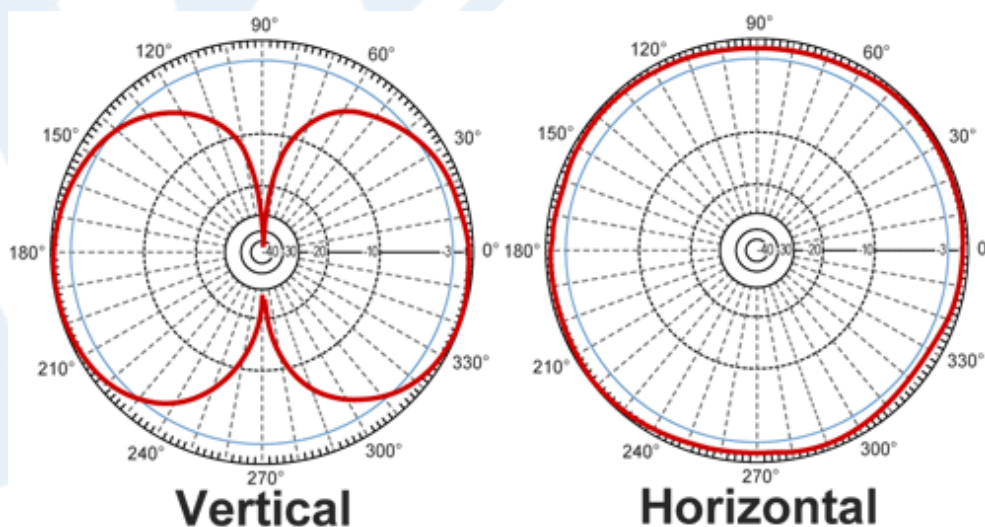
Operating Range	-40 to +60 deg C
Environment	UL-94HB

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

Plotted and Other Data

Notes:

RF Antenna Patterns



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 - RP-TNC Plug Connector PE51RD1001](#)



2.4/4.9/5.8 GHz 3 dBi Multi-band Rubber Duck Antenna - RP-TNC Plug Connector

Antennas Technical Data Sheet

PE51RD1001

2.4/4.9/5.8 GHz 3 dBi Multi-band Rubber Duck Antenna - RP-TNC Plug 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 - RP-TNC Plug Connector PE51RD1001](https://www.pasternack.com/multi-antenna-3-dbi-gain-tnc-pe51rd1001-p.aspx)

URL: <https://www.pasternack.com/multi-antenna-3-dbi-gain-tnc-pe51rd1001-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.

PE51RD1001 CAD Drawing

2.4/4.9/5.8 GHz 3 dBi Multi-band Rubber Duck Antenna - RP-TNC Plug Connector

