

1.8 dBi, VHF Rubber Duck Antenna, 142-154 MHz, MOTO Connector, Vertical Polarization



PEANRBD1003

Features

- 142 MHz to 154 MHz, 1.8 dBi Gain
- MOTO connector
- Heliflex whip antenna
- Plug and play
- 10W power handling
- VSWR < 3:1
- Vertical polarization

Applications

- PtP or PtMP applications
- Trunking for two-way radio comms
- VHF applications
- Public Safety / Emergency services
- Marine / Rail road communications
- P-25 applications exclusively supported
- Land mobile radio (LMR)
- Fixed and mobile services

Description

The PEANRBD1003 rubber duck antenna from Pasternack is part of our extensive line of directional antennas that we offer with global same-day shipping from our facilities certified to ISO 9001:2015. Pasternack's high-quality single-band rubber duck antenna has a 1.8 dBi nominal gain and can be procured with no order limit. This rubber duck single-band 1.8 dBi antenna has a frequency range of 142 MHz to 154 MHz.

We lead the industry in supplying products like this 142 MHz to 154 MHz single-band antenna, along with other RF, microwave, and millimeter wave components. This rubber duck antenna from Pasternack uses a MOTO connector and has a maximum input power of 10 watts. Use our single-band rubber duck antenna with vertical polarization for fixed and mobile services, public safety or emergency services, trunking for two-way radio communications, marine or rail road communications, land mobile radio (LMR), PtP or PtMP, and P-25 applications.

Pasternack's rubber duck antenna with 1.8 dBi gain has a MOTO-type connector. This MOTO-series connectorized omnidirectional antenna is 0.5 inches tall, 0.5 inches wide, and 4.33 inches long. The PEANRBD1003 VHF antenna has 360-degrees of horizontal and 90-degrees of vertical HPBW. Our high-quality antenna has a maximum input VSWR (voltage standing wave ratio) of 3:1.

Pasternack's 50 Ohms impedance antenna can operate at temperatures ranging from -40 °C to 60 °C. This single-band rubber duck antenna is offered with expert technical support, PDF datasheets, and CAD drawings with dimensions and specifications. Order your 1.8 dBi VHF rubber duck antennas now and enjoy our international or domestic same-day shipping.

Configuration

Design	Rubber Duck
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	MOTO

Electrical Specifications

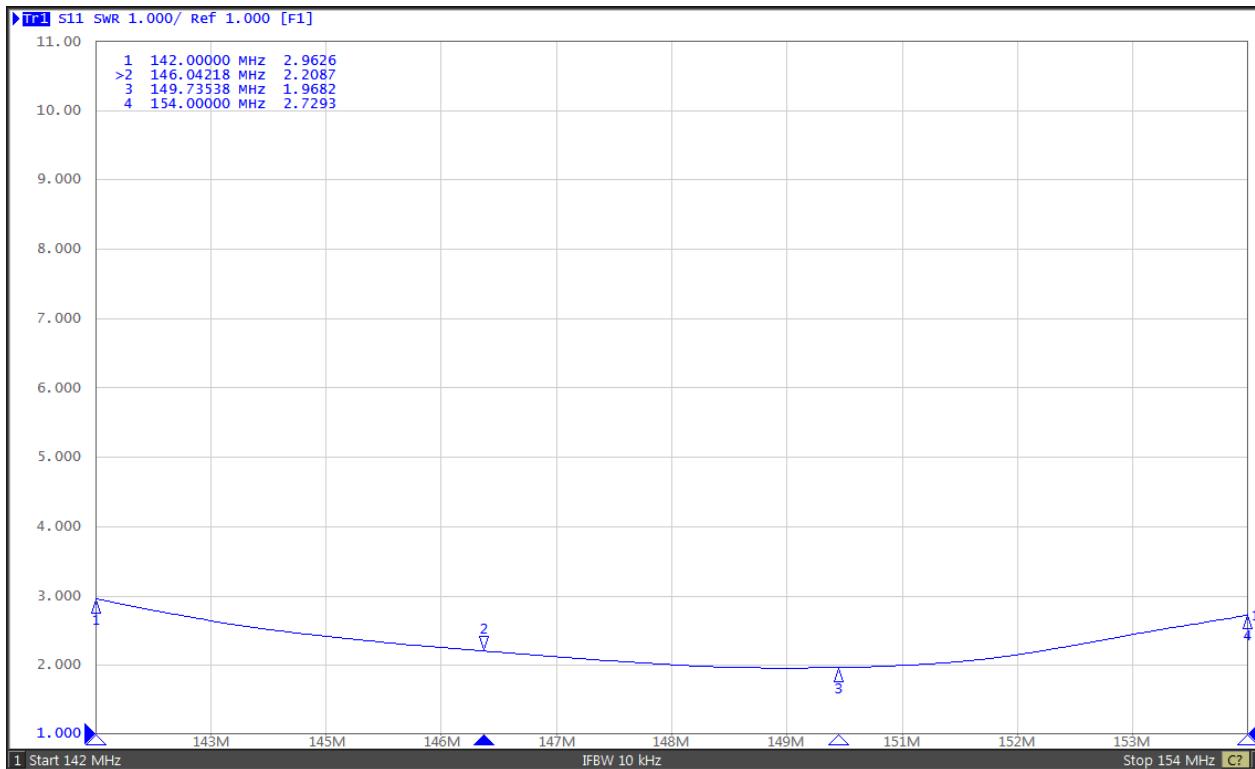
Description	Minimum	Typical	Maximum	Units
Frequency Range	142		152	MHz
Input VSWR			3:1	
Impedance	50			Ohms
Gain	1.8			dB
Horizontal (Azimuth) HPBW	360	Omnidirectional		Degrees
Vertical (Elevation) HPBW	90			Degrees
Input Power			10	Watts

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VSWR plot:



Mechanical Specifications

Size

Length	4.33 in [109.98 mm]
Width	0.5 in [12.7 mm]
Height	0.5 in [12.7 mm]
Weight	0.03 lbs [13.61 g]

Environmental Specifications

Temperature

Operating Range

-40 to +60 deg C

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

Plotted and Other Data

Notes:

Typical Radiation Pattern

Appendix

Electrical Downtilt: Angle in the antenna's elevation pattern in which the maximum gain occurs.

Gain: Antenna's average gain.

Front to Back Ratio @ 180°±30°: Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over ±30° angles.

Cross-polarization Ratio (dB): Typical difference between the co-polarization and cross-polarization gain across the sector's 3 dB Beam Width.

Dedicated to serving the needs of the Wireless Internet Service Provider (WISP) market, KP Performance Antennas offers purpose built products that reliably perform in the field. KP Performance Antennas product line consists of Yagi, Grid, Omni, Dish and other style antennas that operate in the 900 MHz, 2.4 GHz, 3 GHz, and 5 GHz frequencies.

1.8 dBi, VHF Rubber Duck Antenna, 142-154 MHz, MOTO Connector, Vertical Polarization 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: [1.8 dBi, VHF Rubber Duck Antenna, 142-154 MHz, MOTO Connector, Vertical Polarization PEANRBD1003](#)

URL: <https://www.pasternack.com/1.8-dbi-rubber-duck-antenna-142-152-mhz-invalid-alias-lookup-for-moto-connector-peanrbd1003-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PEANRBD1003 CAD Drawing

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