

## 1.8 dBi, UHF Rubber Duck Antenna, 400-470 MHz, MOTO Connector, Vertical Polarization



### PEANRBD1002

#### Features

- 400 MHz to 470 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
- UHF applications
- Public Safety / Emergency services
- Tetra and P-25 applications exclusively supported
- Land and Private mobile radio (LMR) (PMR)
- Fixed and mobile services

#### Description

The PEANRBD1002 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 400 MHz to 470 MHz.

We lead the industry in supplying products like this 400 MHz to 470 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, land and private mobile radio (LMR) (PMR), PtP or PtMP, tetra, 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 3.54 inches long. The PEANRBD1002 UHF 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 UHF 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	400		470	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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## PEANRBD1002

VSWR plot:



### Mechanical Specifications

Radome Material

TPEE

#### Size

Length  
Width  
Height  
Weight

3.54 in [89.92 mm]  
0.5 in [12.7 mm]  
0.5 in [12.7 mm]  
0.02 lbs [9.07 g]

### Environmental Specifications

#### Temperature

Operating Range

-40 to +60 deg C

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## PEANRBD1002

**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, UHF Rubber Duck Antenna, 400-470 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.

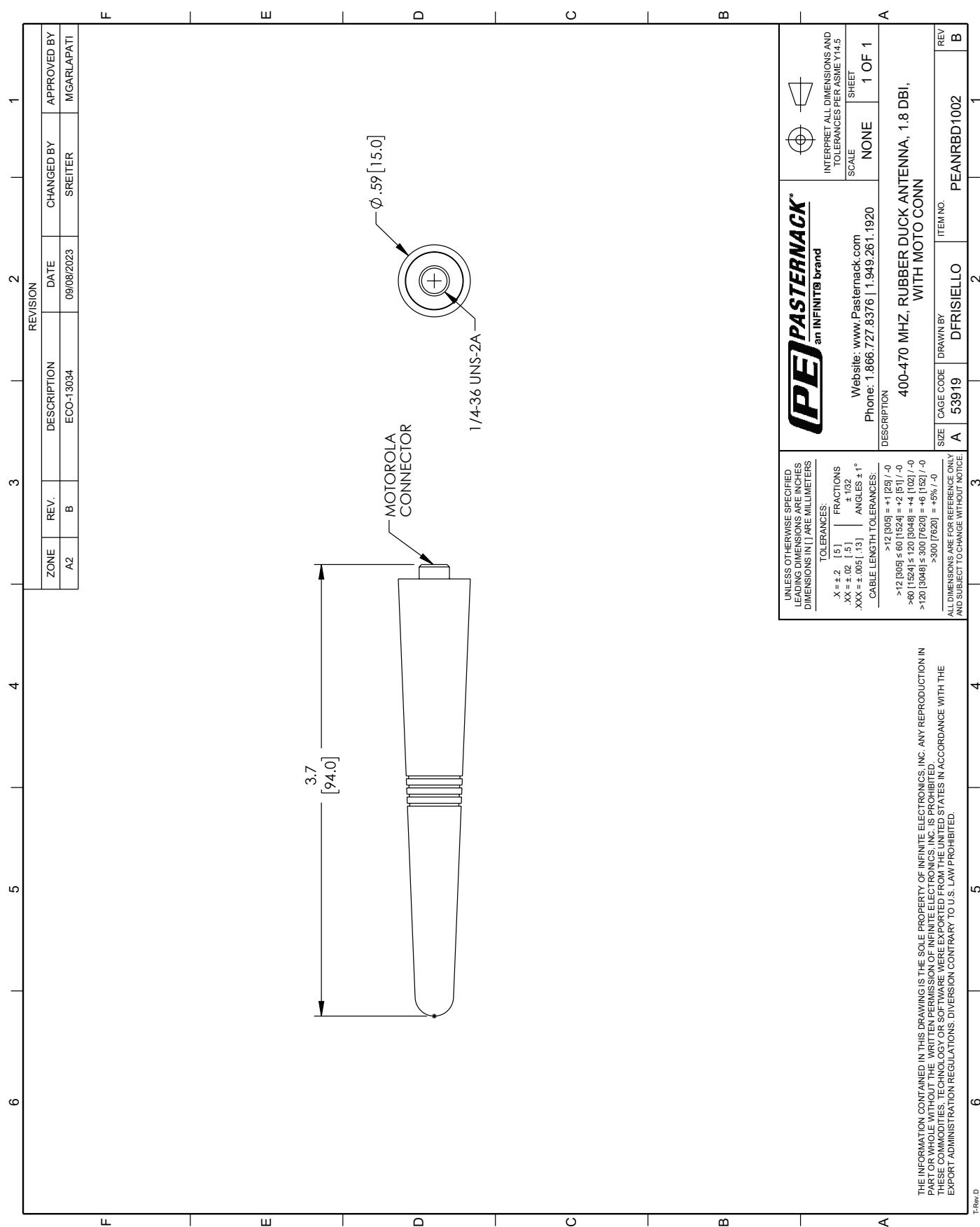
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1.8 dBi, UHF Rubber Duck Antenna, 400-470 MHz, MOTO Connector, Vertical Polarization PEANRBD1002](#)

URL: <https://www.pasternack.com/1.8-dbi-rubber-duck-antenna-400-470-mhz-invalid-alias-lookup-for-moto-connector-peanrbd1002-p.aspx>

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# PEANRBD1002 CAD Drawing

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