

## 144/430 MHz, 2.5/3.5 dBi, Portable Whip Antenna, BNC Male Connector, 14 inch Length

### PEANRBD1075



#### Features

- BNC Male Connector
- Dual Band VHF/UHF
- TPE Whip
- 50 Watt Input Power

#### Applications

- Hand-held two-way radio comms
- VHF/UHF applications
- Public Safety / Emergency services
- Land and Private mobile radio (LMR) (PMR)
- Fixed and mobile services

#### Description

The PEANRBD1075 from Pasternack is a portable whip antenna designed for handheld radios, vehicles, and base stations in UHF/VHF communications. This dual-band antenna features a BNC Male Connector. Our omnidirectional antenna with vertical polarization has an impedance of 50 Ohms. This antenna is stocked to be readily available for same-business-day shipment.

Our dual-band antenna can operate at frequencies ranging from 144 to 148 MHz with 2.5 dBi gain and 420 to 450 MHz with 3.5 dBi gain. This omnidirectional antenna has a maximum input power of 50 Watts. Pasternack's PEANRBD1075 portable whip antenna can withstand temperatures ranging from -40 to 80 degrees C. This antenna has an overall length of 14.3 inches, a height of 0.54 inches, and a weight of 0.044 lbs.

The PEANRBD1075 dual-band antenna has a maximum input VSWR of 1.5:1. This portable whip antenna is suitable for hand-held communication due to its flexibility, durability, portability, and compactness. Our antenna comes with a black TPE radome that provides a protective covering without compromising the antenna system's performance. Additional dimensions and specifications for this omni antenna are on our downloadable PDF datasheet.

Pasternack has one of the largest in-stock selections of dual-band omnidirectional antennas for international and domestic orders. Make your online purchase right now to take advantage of our same-business-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the ideal portable whip antenna for your requirements.

#### Configuration

|                   |                  |
|-------------------|------------------|
| Design            | Rubber Duck      |
| Band Type         | Dual             |
| Radiation Pattern | Omni Directional |
| Polarization      | Vertical         |
| Connector Type    | BNC Male         |

#### Electrical Specifications

| Description     | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 144     |         | 450     | MHz   |
| Input VSWR      |         |         | 1.5:1   |       |
| Impedance       |         | 50      |         | Ohms  |
| Input Power     |         |         | 50      | Watts |

#### Specifications by Band

| Description | Band 1         | Band 2       | Band 3 | Band 4 | Band 5 | Units |
|-------------|----------------|--------------|--------|--------|--------|-------|
| Frequency   | 0.144 to 0.148 | 0.42 to 0.45 |        |        |        | GHz   |

144/430 MHz, 2.5/3.5 dBi, Portable Whip Antenna,  
BNC Male Connector, 14 inch Length

PEANRBD1075



Specifications by Band

| Description | Band 1 | Band 2 | Band 3 | Band 4 | Band 5 | Units |
|-------------|--------|--------|--------|--------|--------|-------|
| Gain        | 2.5    | 3.5    |        |        |        | dBi   |

Mechanical Specifications

|                 |                     |
|-----------------|---------------------|
| Radome Material | TPE                 |
| Size            |                     |
| Length          | 14.3 in [363.22 mm] |
| Width           | 0.543 in [13.79 mm] |
| Height          | 0.543 in [13.79 mm] |
| Weight          | 0.044 lbs [19.96 g] |

Environmental Specifications

|                 |                  |
|-----------------|------------------|
| Temperature     |                  |
| Operating Range | -40 to +80 deg C |

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

Plotted and Other Data

Notes:

144/430 MHz, 2.5/3.5 dBi, Portable Whip Antenna,  
BNC Male Connector, 14 inch Length

## PEANRBD1075



---

### 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.

144/430 MHz, 2.5/3.5 dBi, Portable Whip Antenna, BNC Male Connector, 14 inch Length 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: [144/430 MHz, 2.5/3.5 dBi, Portable Whip Antenna, BNC Male Connector, 14 inch Length PEANRBD1075](https://www.pasternack.com/dual-band-rubber-duck-antenna-144-450-mhz-bnc-male-connector-peanrbd1075.html)

URL: <https://www.pasternack.com/dual-band-rubber-duck-antenna-144-450-mhz-bnc-male-connector-peanrbd1075.html>

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.

PEANRBD1075 CAD Drawing
144/430 MHz, 2.5/3.5 dBi, Portable Whip Antenna, BNC Male Connector, 14 inch Length

