

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

### FMANRBD1075



#### 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 FMANRBD1075 from Fairview Microwave 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. Fairview Microwave's FMANRBD1075 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 FMANRBD1075 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.

Fairview Microwave 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   |

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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:

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### 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 Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [144/430 MHz, 2.5/3.5 dBi, Portable Whip Antenna, BNC Male Connector, 14 inch Length FMANRBD1075](https://www.fairviewmicrowave.com/product/antennas/dualband-rubber-duck-antenna-144-450-mhz-bnc-connector-fmanrbd1075)

URL: <https://www.fairviewmicrowave.com/product/antennas/dualband-rubber-duck-antenna-144-450-mhz-bnc-connector-fmanrbd1075.html>

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FMANRBD1075 CAD Drawing
144/430 MHz, 2.5/3.5 dBi, Portable Whip Antenna, BNC Male Connector, 14 inch Length

