

144/430 MHz, 2.15/2.5 dBi, Portable Whip Antenna, UHF Male Connector, 14 inch Length



FMANRBD1078

Features

- UHF 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

Fairview Microwave's FMANRBD1078 is a portable whip antenna designed for handheld radios, vehicles, and base stations in UHF/VHF communications. This omnidirectional antenna features a UHF Male Connector. Our dual-band antenna can operate at frequencies ranging from 144 to 148 MHz with 2.15 dBi gain and 420 to 450 MHz with 2.5 dBi gain. This antenna is stocked to be readily available for same-business-day shipment.

Our omnidirectional antenna with vertical polarization has an impedance of 50 Ohms. This dual-band antenna has a maximum input power of 50 Watts. The FMANRBD1078 portable whip antenna from Fairview Microwave can withstand temperatures ranging from -40 to 80 degrees C. This antenna has an overall length of 14.7 inches, a height of 0.7 inches, and a weight of 0.198 lbs.

The FMANRBD1078 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	UHF 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, 2.15/2.5 dBi, Portable Whip Antenna,
UHF Male Connector, 14 inch Length



FMANRBD1078

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Gain	2.15	2.5				dBi

Mechanical Specifications

Radome Material	TPE
Size	
Length	14.763 in [374.98 mm]
Width	0.701 in [17.81 mm]
Height	0.701 in [17.81 mm]
Weight	0.198 lbs [89.81 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, 2.15/2.5 dBi, Portable Whip Antenna,
UHF Male Connector, 14 inch Length



FMANRBD1078

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, 2.15/2.5 dBi, Portable Whip Antenna, UHF 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, 2.15/2.5 dBi, Portable Whip Antenna, UHF Male Connector, 14 inch Length FMANRBD1078](https://www.fairviewmicrowave.com/product/antennas/dualband-rubber-duck-antenna-144-450-mhz-uhf-connector-fmanrbd1078.html)

URL: <https://www.fairviewmicrowave.com/product/antennas/dualband-rubber-duck-antenna-144-450-mhz-uhf-connector-fmanrbd1078.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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

FMANRBD1078 CAD Drawing
144/430 MHz, 2.15/2.5 dBi, Portable Whip Antenna, UHF Male Connector, 14 inch Length

