

3.5 dBi, VHF Rubber Duck Antenna, 139-174 MHz, BNC Connector, Vertical Polarization

Description

The FMANRBD1013 rubber duck antenna from Fairview 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. Fairview's high-quality single-band rubber duck antenna has a 3.5 dBi nominal gain and can be procured with no order limit. This rubber duck single-band 3.5 dBi antenna has a frequency range of 139 MHz to 174 MHz.

We lead the industry in supplying products like this 139 MHz to 174 MHz single-band antenna, along with other RF, microwave, and millimeter wave components. This rubber duck antenna from Fairview uses a BNC connector and has a maximum input power of 20 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.

Fairview's rubber duck antenna with 3.5 dBi gain has a BNC-type connector. This BNC-series connectorized omnidirectional antenna is 0.5 inches tall, 0.5 inches wide, and 8.66 inches long. The FMANRBD1013 VHF antenna has 360-degrees of horizontal and 70-degrees of vertical HPBW. Our high-quality antenna has a maximum input VSWR (voltage standing wave ratio) of 3:1.

Fairview'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 3.5 dBi VHF rubber duck antennas now and enjoy our international or domestic same-day shipping.

Configuration

Design	Rubber Duck
Gain	3.5
Polarization	Vertical
Connector Type	BNC

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	139		174	MHz
Input VSWR			3:1	
Impedance		50		Ohms
Gain		3.5		dBi
Horizontal (Azimuth) Beam Width		360		Degrees
Vertical (Elevation) Beam Width		70		Degrees
Input Power			20	Watts



Features:

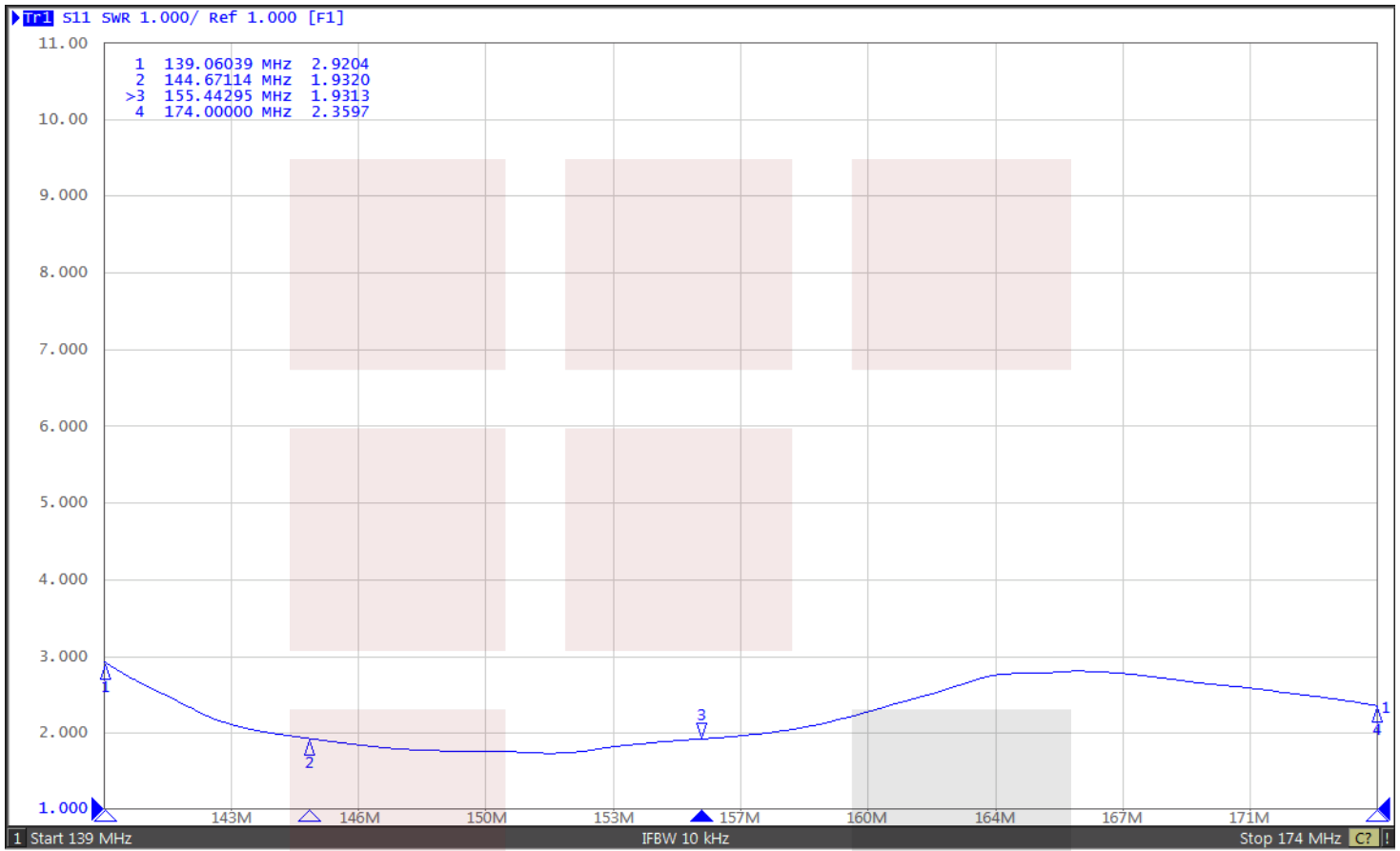
- 139 MHz to 174 MHz, 3.5 dBi Gain
- BNC connector
- Telescopic radiator
- Plug and play
- 20W power handling
- VSWR < 3:1
- Vertical polarization

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

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VSWR plot:



Mechanical Specifications

Size	
Length	8.66 in [219.96 mm]
Width	0.5 in [12.7 mm]
Height	0.5 in [12.7 mm]
Weight	4.47 lbs [2.03 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +60 deg C

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

Plotted and Other Data

Notes:

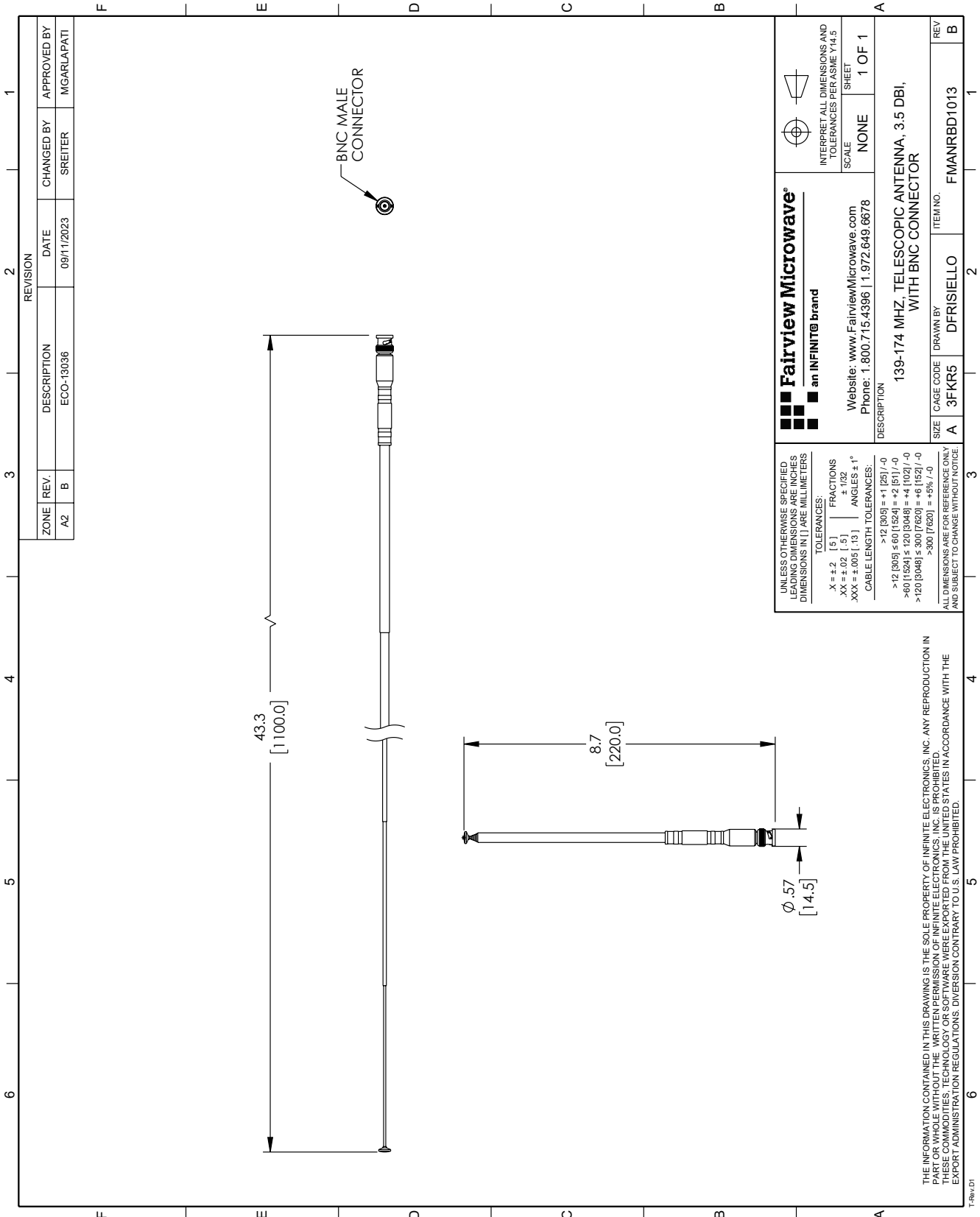
3.5 dBi, VHF Rubber Duck Antenna, 139-174 MHz, BNC Connector, Vertical Polarization from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [3.5 dBi, VHF Rubber Duck Antenna, 139-174 MHz, BNC Connector, Vertical Polarization FMANRBD1013](#)

URL: <https://www.fairviewmicrowave.com/3.5-dbi-vhf-rubber-duck-antenna-139-174-mhz-bnc-connector-vertical-polarization-fmanrbd1013-p.aspx>

The information contained in 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 any liability arising out of the use of any part or documentation.





REVISION		DATE	CHANGED BY	APPROVED BY
ZONE	REV.	DESCRIPTION		
A2	B	ECO-13036	SREITER	MGARLAPATI

<p>Fairview Microwave an INFINIT[®] brand</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p>
Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678		SCALE: NONE SHEET: 1 OF 1
DESCRIPTION: 139-174 MHZ. TELESCOPIC ANTENNA, 3.5 DBI, WITH BNC CONNECTOR		
SIZE	CAGE CODE	ITEM NO.
A	3FKR5	FMANRBD1013

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND DECIMAL DIMENSIONS ARE IN MILLIMETERS.

TOLERANCES:
 .X = ±.2 [5] FRACTIONS ± 1/32
 .XX = ±.02 [.5] ANGLES ± 1°
 .XXX = ±.005 [.13]

CABLE LENGTH TOLERANCES:
 >12 [305] ≤ 60 [1524] = +1 [25] / -0
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0
 >300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

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