

1.8 dBi, VHF Rubber Duck Antenna, 136-149 MHz, BNC Connector, Vertical Polarization



FMANRBD1006

Features

- 136 MHz to 149 MHz, 1.8 dBi Gain
- BNC 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
- VHF applications
- Public Safety / Emergency services
- Marine / Rail road communications
- P-25 applications exclusively supported
- Land mobile radio (LMR)
- Fixed and mobile services

Description

The FMANRBD1006 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 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 136 MHz to 149 MHz.

We lead the industry in supplying products like this 136 MHz to 149 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 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, marine or rail road communications, land mobile radio (LMR), PtP or PtMP, and P-25 applications.

Fairview's rubber duck antenna with 1.8 dBi gain has a BNC-type connector. This BNC-series connectorized omnidirectional antenna is 0.5 inches tall, 0.5 inches wide, and 6.69 inches long. The FMANRBD1006 VHF 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.

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 1.8 dBi VHF 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	BNC

Electrical Specifications

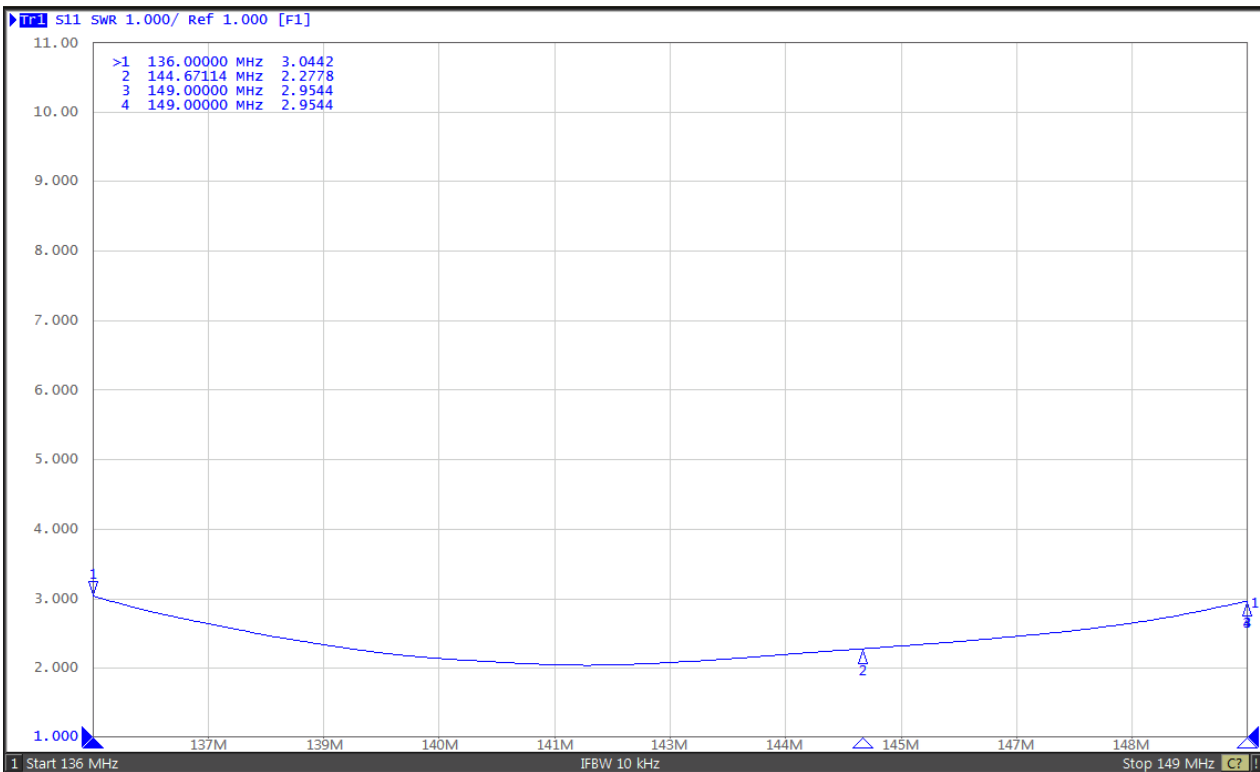
Description	Minimum	Typical	Maximum	Units
Frequency Range	136		149	MHz
Input VSWR			3:1	
Impedance		50		Ohms
Gain		1.8		dBi
Horizontal (Azimuth) HPBW		360		Degrees
Vertical (Elevation) HPBW		90		Degrees
Input Power			10	Watts

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VSWR plot:



Mechanical Specifications

Radome Material	ABS
Size	
Length	6.69 in [169.93 mm]
Width	0.5 in [12.7 mm]
Height	0.5 in [12.7 mm]
Weight	0.08 lbs [36.29 g]

Environmental Specifications

Temperature	
Operating Range	-40 to +60 deg C

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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, VHF Rubber Duck Antenna, 136-149 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.

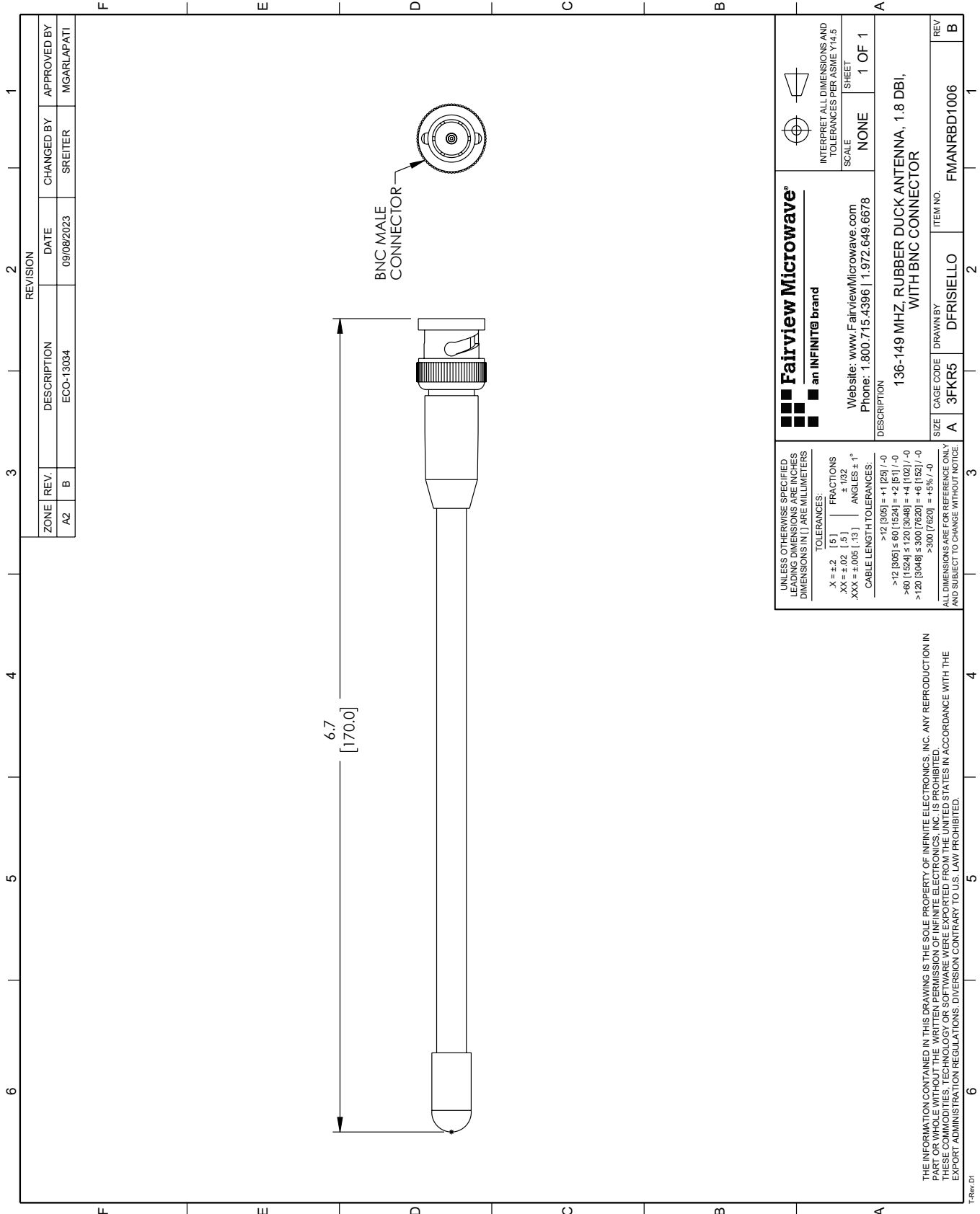
For additional information on this product, please click the following link: [1.8 dBi, VHF Rubber Duck Antenna, 136-149 MHz, BNC Connector, Vertical Polarization FMANRBD1006](#)

URL: <https://www.fairviewmicrowave.com/1.8-dbi-rubber-duck-antenna-136-149-mhz-bnc-connector-fmanrbd1006-p.aspx>

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FMANRBD1006 CAD Drawing

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ZONE		REV.		DESCRIPTION		DATE		CHANGED BY		APPROVED BY	
A2	B			ECO-13034		09/08/2023		SREITER		MGARLAPATI	

Fairview Microwave® an INFINITI® brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1	
Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678		DESCRIPTION: 136-149 MHz, RUBBER DUCK ANTENNA, 1.8 DBI, WITH BNC CONNECTOR	
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	DFRISIELLO	FMANRBD1006

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

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

CABLE LENGTH TOLERANCES:
 >12 [3005] = +1 [25] / -0
 >12 [3005] < 60 [1524] = +2 [51] / -0
 >60 [1524] < 120 [3048] = +4 [102] / -0
 >120 [3048] < 300 [7620] = +8 [152] / -0
 >300 [7620] = +9% / -0

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

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