

## 1.8 dBi, VHF Rubber Duck Antenna, 136-174 MHz, MOTO Connector, Vertical Polarization

The FMANRBD1003 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 174 MHz.

We lead the industry in supplying products like this 136 MHz to 174 MHz single-band antenna, along with other RF, microwave, and millimeter wave components. This rubber duck antenna from Fairview uses a MOTO 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 MOTO-type connector. This MOTO-series connectorized omnidirectional antenna is 0.5 inches tall, 0.5 inches wide, and 4.33 inches long. The FMANRBD1003 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 2:1.

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
Gain	1.8
Polarization	Vertical
Connector Type	MOTO

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	136		174	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain		1.8		dBi
Horizontal (Azimuth) Beam Width		360		Degrees
Vertical (Elevation) Beam Width		90		Degrees
Input Power			10	Watts

### Mechanical Specifications

<b>Size</b>	
Length	5.51181 in [140 mm]
Width	0.5 in [12.7 mm]
Height	0.5 in [12.7 mm]
Weight	0.026 lbs [11.79 g]



### Features:

- 136 MHz to 174 MHz, 1.8 dBi Gain
- MOTO connector
- Heliflex whip antenna
- Plug and play
- 10W power handling
- VSWR < 2:1
- 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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## Environmental Specifications

### Temperature

Operating Range -40 to +60 deg C

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

## Plotted and Other Data

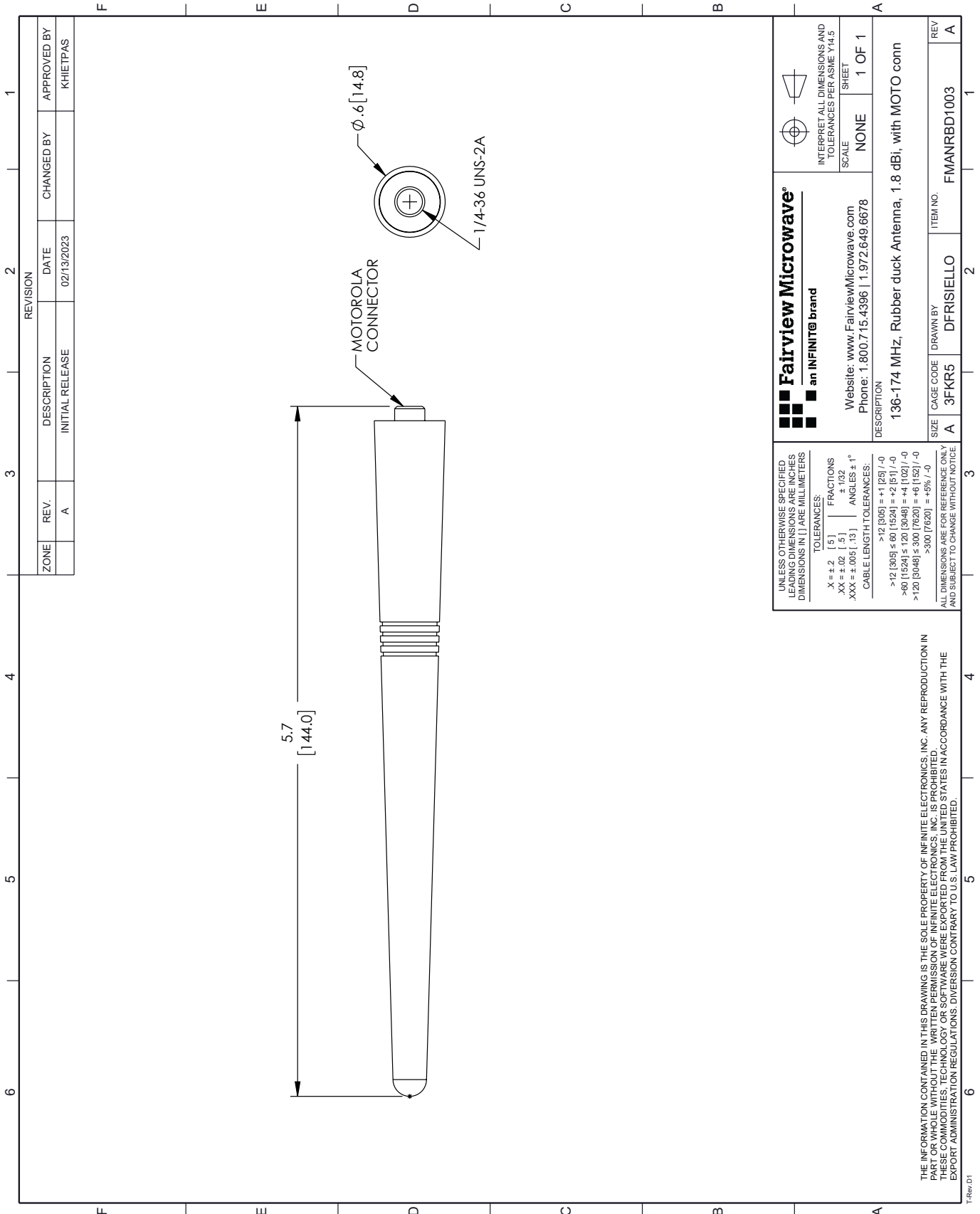
Notes:

1.8 dBi, VHF Rubber Duck Antenna, 136-174 MHz, MOTO 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, 136-174 MHz, MOTO Connector, Vertical Polarization FMANRBD1003](#)

URL: <https://www.fairviewmicrowave.com/1.8-dbi-vhf-rubber-duck-antenna-136-174-mhz-moto-connector-vertical-polarization-fmanrbd1003-p.aspx>

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ZONE		REV. A		DESCRIPTION		DATE		CHANGED BY		APPROVED BY	
				INITIAL RELEASE		02/13/2023				KHETPAS	

<p><b>Fairview Microwave</b> an INFINIT<sup>®</sup> brand</p> <p>Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a> Phone: 1.800.715.4396   1.972.649.6678</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>	
<p>DESCRIPTION: 136-174 MHz, Rubber duck Antenna, 1.8 dBi, with MOTO conn</p>			
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	DFRISIELLO	FMANRBD1003

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

TOLERANCES:

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

CABLE LENGTH TOLERANCES:

>12 [305]	±.125 [ -0
>60 [1524] ≤ 60 [1524]	±.25 [ -0
>60 [1524] ≤ 120 [3048]	±.5 [ -0
>120 [3048] ≤ 300 [7620]	±1.0 [ -0
>300 [7620]	±2.0 [ -0

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

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