

## 2 dBi Rubber Duck Antenna 2,400-2,500 MHz N Type Connector

The Fairview Microwave FM51RD1022 is an economical yet high performance omnidirectional “rubber-duck” antenna designed for the 2.4 GHz ISM band. It features a tilt-and-swivel N male connector, allowing them to be used vertically, at a right angle, or any angle in-between. It is a coaxial sleeve design with an omni-directional pattern. It is ideally suited for IEEE 802.11b, 802.11g, 802.11n and 802.11ax (WiFi 6) Wireless LANs, Bluetooth, IoT and other applications.

The high performance rubber-duck FM51RD1022 from Fairview Microwave is a flexible antenna providing broad coverage and 3 dBi gain. The N-male makes it suitable to mount to radios with bulkhead N-female connectors or coax connections.

In addition to shipping the same day, our rubber duck antennas are high-quality components backed by expert technical support and sales personnel. Contact our knowledgeable and friendly technical support and sales staff for your answers on antennas or other Fairview Microwave products.

### Configuration

Design	Rubber Duck
Gain	2
Polarization	Linear
Connector Type	N Male
Number of Ports	1

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	2,400		2,500	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain		2		dBi

### Mechanical Specifications

Housing Material	TPEE
Housing Plating/Color	Black
<b>Size</b>	
Length	6.02 in [152.91 mm]
Width	0.39 in [9.91 mm]
Height	0.39 in [9.91 mm]
Weight	0.042 lbs [19.05 g]

### Environmental Specifications

<b>Temperature</b>	
Operating Range	-40 to +65 deg C
Storage Range	-40 to +80 deg C

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

### Plotted and Other Data

Notes:



### Features:

- Flexible “Rubber Duck” Antenna
- Optional Magnetic Mount Available
- High performance 3 dBi
- N Male Connector
- Tilt and Swivel Design

### Applications:

- Multipoint and Mobile Applications & Bluetooth®
- 2.4 GHz ISM Band
- IEEE 802.11b, 802.11g, 802.11x (WiFi 6) Wireless LAN & IEEE 802.11n (Pre-N, Draft-N) Applications
- Public Wireless Hotspot
- Wireless Video Systems
- IoT Systems

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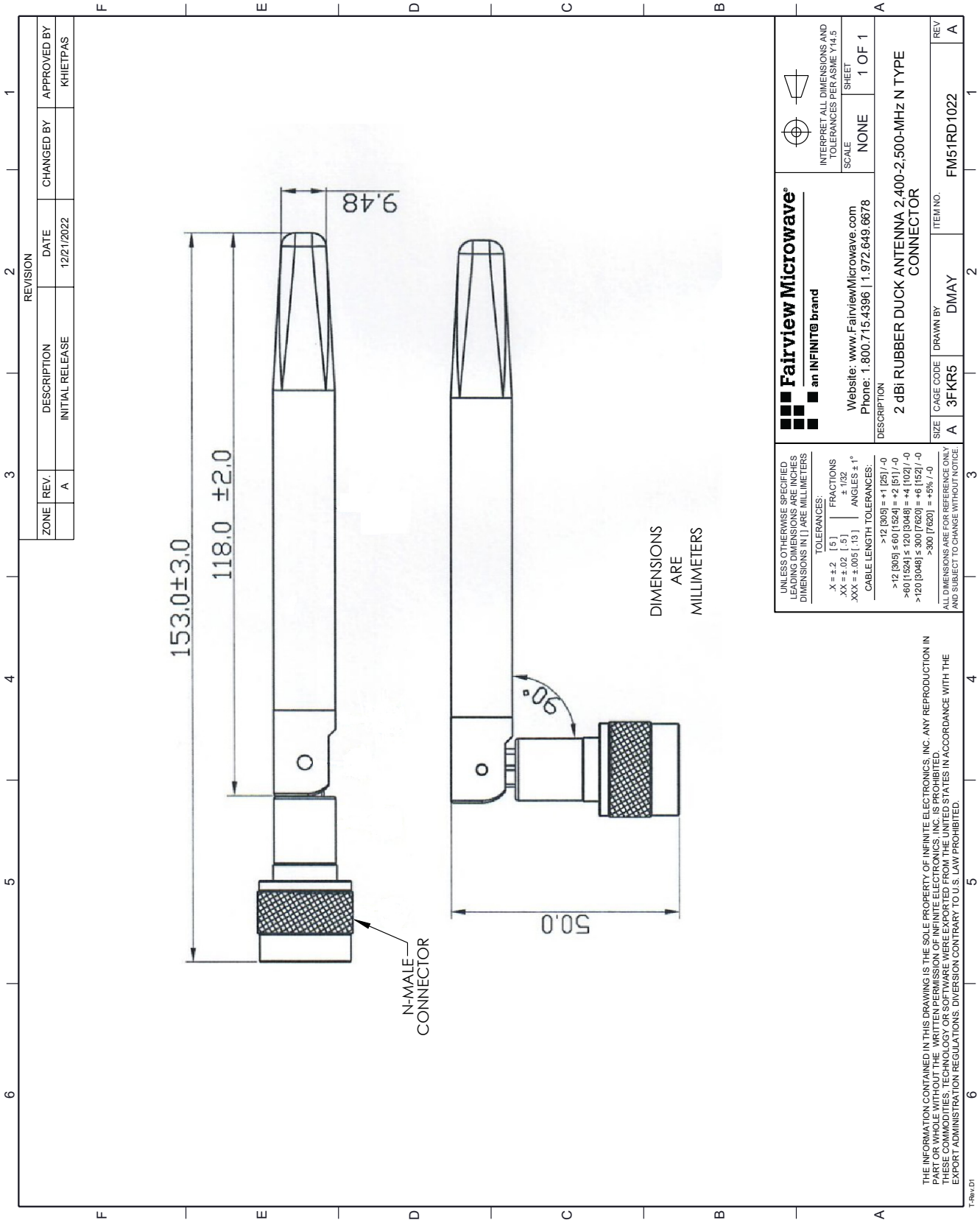
2 dBi Rubber Duck Antenna 2,400-2,500 MHz N Type Connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2 dBi Rubber Duck Antenna 2,400-2,500 MHz N Type Connector FM51RD1022](#)

URL: <https://www.fairviewmicrowave.com/single-antenna-2.4-2.5-ghz-2-dbi-gain-n-fm51rd1022-p.aspx>

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DIMENSIONS ARE MILLIMETERS

REVISION		DATE	CHANGED BY	APPROVED BY
ZONE	REV.	DESCRIPTION	INITIAL RELEASE	
	A		12/21/2022	KHIETPAS

<b>Fairview Microwave<sup>®</sup></b> an INFINIT <sup>®</sup> brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a> Phone: 1.800.715.4396   1.972.649.6678		
DESCRIPTION 2 dBi RUBBER DUCK ANTENNA 2,400-2,500-MHz N TYPE CONNECTOR		
SIZE	CAGE CODE	ITEM NO.
A	3FKR5	FM51RD1022
DRAWN BY		REV
DMAY		A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS AND TOLERANCES ARE IN MILLIMETERS.

TOLERANCES:  
 .X = ± 0.2 [ .5 ] FRACTIONS ± 0.132 ANGLES ± 1°  
 .XX = ± 0.02 [ .05 ]  
 .XXX = ± 0.005 [ .01 ]

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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