

3 dBi Rubber Duck Antenna 2,400-2,500 MHz RP-SMA Connector

The Fairview Microwave FM51RD1023 is an economical yet high performance omnidirectional “rubber-duck” antenna designed for the 2.4 GHz ISM band. It features a tilt-and-swivel Reverse Polarized SMA (RP-SMA) 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 performance FM51RD1023 rubber-duck from Fairview Microwave is a flexible antenna providing broad coverage and 3 dBi gain. It is suitable as a replacement RF antenna for 2.4 GHz radios that are equipped with RP-SMA connectors.

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	3
Polarization	Linear
Connector Type	SMA Male Reverse Polarity
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		3		dBi

Mechanical Specifications

Housing Material	TPEE
Housing Plating/Color	Black
Size	
Length	5.55 in [140.97 mm]
Width	0.51 in [12.95 mm]
Height	0.51 in [12.95 mm]
Weight	0.02 lbs [9.07 g]

Environmental Specifications

Temperature	
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
- Reverse Polarity SMA Plug 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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3 dBi Rubber Duck Antenna 2,400-2,500 MHz RP-SMA 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: [3 dBi Rubber Duck Antenna 2,400-2,500 MHz RP-SMA Connector FM51RD1023](#)

URL: <https://www.fairviewmicrowave.com/single-antenna-2.4-2.5-ghz-3-dbi-gain-sma-fm51rd1023-p.aspx>

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