

2.4 GHz to 5.85 GHz Dual Band Antenna, Monopole, 90-degree angle, SMA Male Connector, 2.1 and 5.47 dBi Gain



FMANRBD1042

Features

- 2400-2500 / 5150-5850 MHz, 2.1/5.47 dBi Gain
- 90-degree SMA male connector
- Plug and play
- VSWR < 2.5:1
- Linear polarization
- Monopole antenna

Applications

- 2.4/5 GHz Wi-Fi and ISM applications
- WLAN applications
- IOT, Wireless audio/video systems
- Home automation
- Telemetry, remote monitoring
- Wireless data acquisition
- 802.11 a/b/g/n/ax/ac, wireless hotspots
- PtP and PtMP applications
- 5G bands: n53, n46
- 4G LTE bands: B252, B255, B46

Description

The Fairview Microwave FMANRBD1042 is an omni antenna operating from 2.4 GHz to 5.85 GHz with 2.1 dBi gain. Our high-quality omnidirectional antenna has a maximum input VSWR of 2.5:1, which results in the best power transfer and reduced losses. This monopole antenna transmits high power signals, increasing the signal strength, thus providing improved coverage, better broadcast control, and faster speed. Our omni antenna is specifically stocked to be available for same business day shipment.

This FMANRBD1042 WiFi antenna from Fairview Microwave is ideal for 2.4/5 GHz Wi-Fi and ISM applications, WLAN, Bluetooth, IOT, wireless audio/video systems, home automation, telemetry, remote monitoring, wireless data acquisition, 802.11 a/b/g/n/ax, wireless hotspots, PtP and PtMP applications. Our omnidirectional antenna has linear polarization, an SMA male connector, and an TPEE radome material. The SMA male connector on this communication antenna enables it to be used vertically, at a right angle, or at any angle in between.

Fairview Microwave WiFi antenna is 0.716 inches wide, 4.33 inches long, and 0.716 inches tall. This 2.1 dBi antenna have a sturdy design, a high power handling capacity, and IP66 ingress protection rating. The double band antenna has a gain of 2.1 dBi for the 2.4 GHz to 2.5 GHz frequency range and a gain of 5.47 dBi for the 5.15 GHz to 5.85 GHz frequency range. Our black omnidirectional antenna functions between -40 to 65 degrees C and has 50 Ohm impedance.

Fairview Microwave has one of the largest in-stock selections of monopole omni directional antennas for international and domestic orders. Make your online purchase right now to take advantage of our same business day shipping. For further information on similar antennas, our expert technical support and knowledgeable sales team can help you get the perfect 2.4 GHz to 5.85 GHz antenna for your requirements.

Configuration

Design	Rubber Duck
Band Type	Multi
Radiation Pattern	Omni Directional
Polarization	Linear
Connector Type	SMA Male

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		5,850	MHz
Input VSWR			2.5:1	
Impedance		50		Ohms
Input Power			10	Watts

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Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Frequency	2.4 to 2.5	5.15 to 5.85				GHz
Gain	2.1	5.47				dBi

Mechanical Specifications

Radome Material TPEE

Size

Length 4.33 in [109.98 mm]
Width 0.716 in [18.19 mm]
Height 0.716 in [18.19 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
Environment Waterproof
Ingress Protection IP66

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

Plotted and Other Data

Notes:

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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.

2.4 GHz to 5.85 GHz Dual Band Antenna, Monopole, 90-degree angle, SMA Male Connector, 2.1 and 5.47 dBi Gain 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.

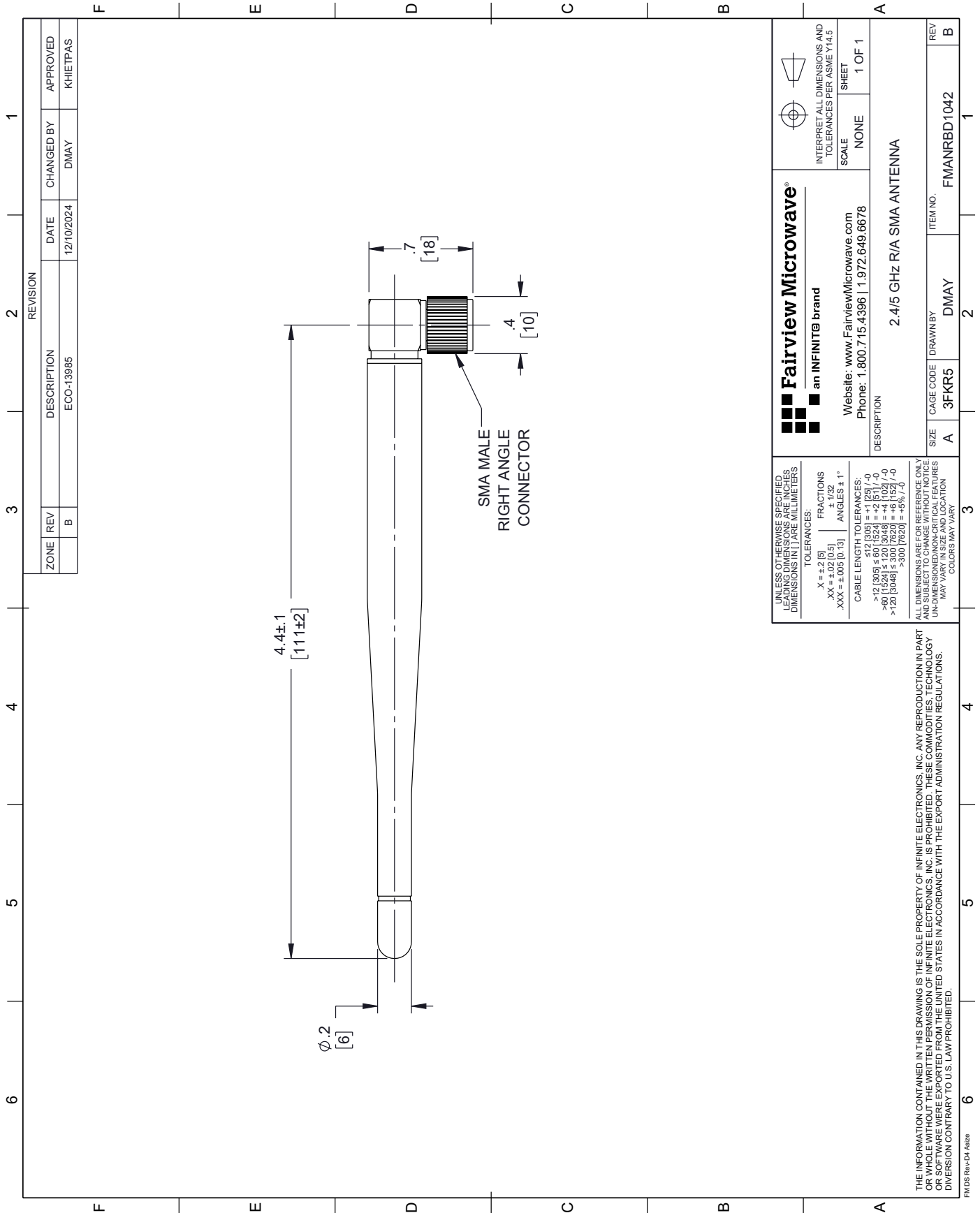
For additional information on this product, please click the following link: [2.4 GHz to 5.85 GHz Dual Band Antenna, Monopole, 90-degree angle, SMA Male Connector, 2.1 and 5.47 dBi Gain FMANRBD1042](https://www.fairviewmicrowave.com/product/antennas/multiband-rubber-duck-antenna-2400-5850-mhz-sma-connector-fmanrbd1042)

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FMANRBD1042 CAD Drawing

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Fairview Microwave® an INFINIT® brand Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1	
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN PAREMILLIMETERS TOLERANCES: .X = ±.2 [5] FRACTIONS ± 1/32 .XX = ±.02 [0.5] .XXX = ±.005 [0.13] ANGLES ± 1° CABLE LENGTH TOLERANCES: >12 [305] ≤ 60 [1524] = +1 [25] / -0 >60 [1524] ≤ 120 [3048] = +4 [102] / -0 >120 [3048] ≤ 300 [7620] = +5 [127] / -0 >300 [7620] = +5 [127] / -0		DESCRIPTION: 2.4/5 GHz R/A SMA ANTENNA SIZE: A CAGE CODE: 3FKR5 DRAWN BY: DMAY ITEM NO.: FMANRBD1042	
ALL DIMENSIONS ARE FOR REFERENCE ONLY OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.		REV: B APPROVED: KHETPAS DATE: 12/10/2024 CHANGED BY: DMAY	