

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

### KPANRBD1042



#### 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 KP performance KPANRBD1042 is a 2.4 GHz to 5.85 GHz dual band antenna that is ideal for 2.4/5 GHz Wi-Fi and ISM, 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. This IP66-rated communication antenna has a black radome made from TPEE material. Our antenna is 0.93 inches wide, 4.33 inches long and 0.93 inches tall.

These omni antennas have a waterproof design, linear polarization and a SMA type male connector. This IP66-rated KPANRBD1042 antenna transmits high-power signals, increasing the signal strength, thus providing improved coverage, better-broadcast control and faster speed. KP performance 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 colored omnidirectional antenna functions between -40 to 65 degrees C and has 50 ohms impedance.

The SMA male connector on the communication antenna enables it to be used vertically, at a 90-degree angle, or at any angle in between. KP Performance 2.1 and 5.47 dBi antennas have a sturdy outdoor design, a high power handling capacity, and all of their components are DC grounded for lightning safety. Our high-quality KPANRBD1042 omnidirectional antenna has a maximum input VSWR of 2.5:1, which results in the best power transfer and reduced losses.

The KP performance has one of the largest in-stock collections of 2.1 and 5.47 dBi gain omni directional antennas for all your critical equipment and power sources. Quickly make your online purchase right now to take advantage of our same-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the 2.4 GHz to 5.85 GHz dual band antenna as per 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	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4 GHz to 5.85 GHz Dual Band Antenna, Monopole, 90-degree angle, SMA Male Connector, 2.1 and 5.47 dBi Gain KPANRBD1042](#)

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



**KPANRBD1042**

Impedance	50	Ohms
Input Power	10	Watts

**Specifications by Band**

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

**Mechanical Specifications**

Radome Material	TPEE
<b>Size</b>	
Length	4.33 in [109.98 mm]
Width	0.93 in [23.62 mm]
Height	0.93 in [23.62 mm]
Weight	0.0242 lbs [10.98 g]

**Environmental Specifications**

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

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

IP Rating	IP66
-----------	------

**Plotted and Other Data**

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[2.4 GHz to 5.85 GHz Dual Band Antenna, Monopole, 90-degree angle, SMA Male Connector, 2.1 and 5.47 dBi Gain KPANRBD1042](#)

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

**KPANRBD1042**



---

## 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4 GHz to 5.85 GHz Dual Band Antenna, Monopole, 90-degree angle, SMA Male Connector, 2.1 and 5.47 dBi Gain KPANRBD1042](https://www.kpperformance.com/2.4-ghz-to-5.85-ghz-antenna-90-degree-angle-sma-male-connector-2.1-and-5.47-dbi-gain-kpan-rbd1042-p.aspx)

URL: <https://www.kpperformance.com/2.4-ghz-to-5.85-ghz-antenna-90-degree-angle-sma-male-connector-2.1-and-5.47-dbi-gain-kpan-rbd1042-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. KP Performance reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. KP Performance does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and KP Performance does not assume liability arising out of the use of any part or document.

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

**KPANRBD1042 CAD Drawing**

