

2.4 GHz to 5.85 GHz Dual Band Antenna, Monopole, 90-degree angle, RP SMA Male Connector, 1.2 and 4.26 dBi Gain

KPANRBD1043



Features

- 2400-2500 / 5150-5850 MHz, 1.2 / 4.26 dBi Gain
- 90-degree RP-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: n46, n53
- 4G LTE bands: B252, B255, B46

Description

The KP performance KPANRBD1043 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 0.7 inches wide, 4.33 inches long and 0.7 inches tall.

These omni antennas have a waterproof design, linear polarization and a RP-SMA type male connector. This IP66-rated KPANRBD1043 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 1.2 dBi for the 2.4 GHz to 2.5 GHz frequency range and a gain of 4.26 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 RP-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 1.2 and 4.26 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 KPANRBD1043 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 1.2 and 4.26 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 Reverse Polarity

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, RP SMA Male Connector, 1.2 and 4.26 dBi Gain KPANRBD1043](#)

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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	1.25	4.26				dBi

Mechanical Specifications

Radome Material	TPEE
Size	
Length	4.33 in [109.98 mm]
Width	0.7 in [17.78 mm]
Height	0.7 in [17.78 mm]
Weight	0.0242 lbs [10.98 g]

Environmental Specifications

Temperature	
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
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Plotted and Other Data

Notes:

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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.

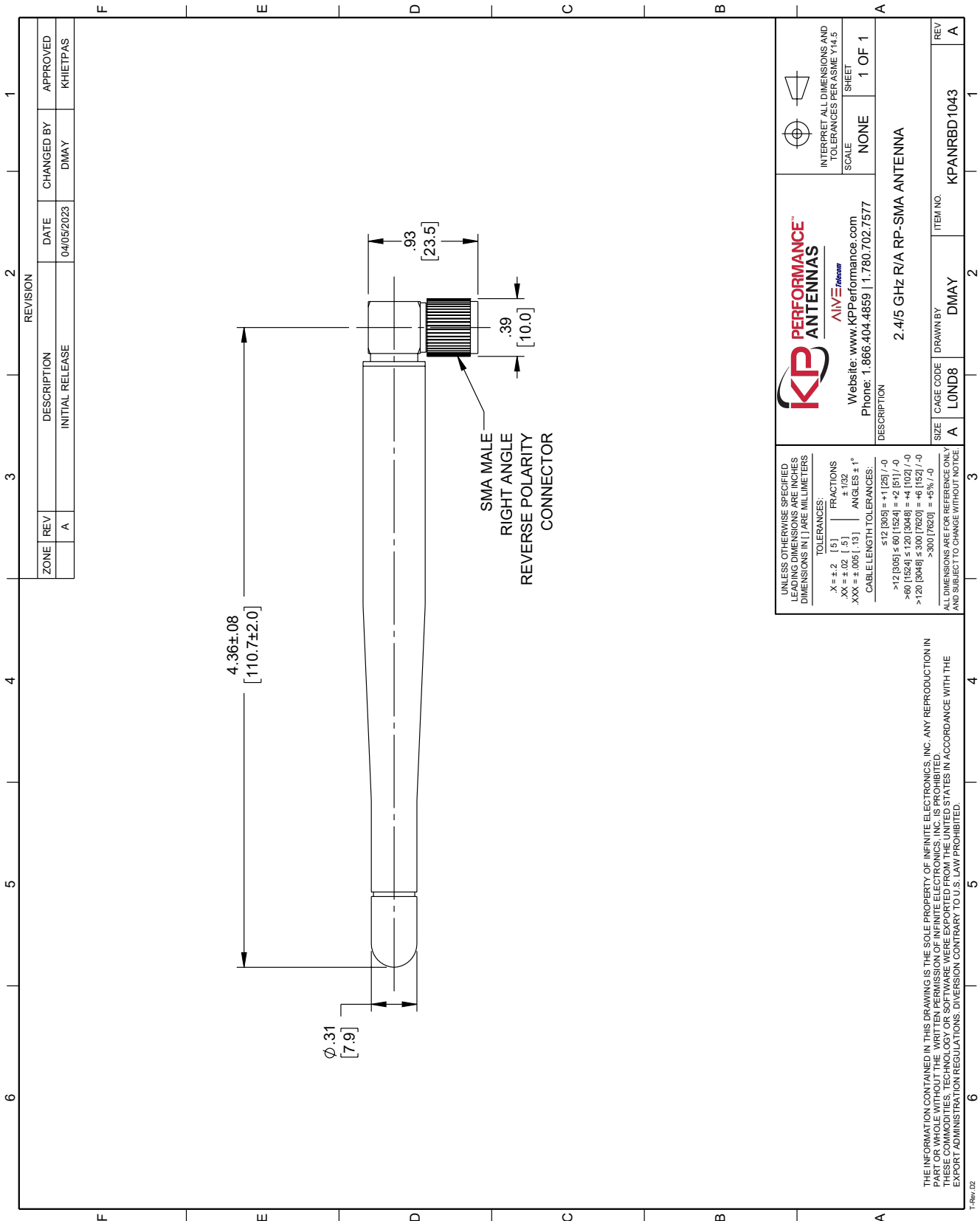
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4 GHz to 5.85 GHz Dual Band Antenna, Monopole, 90-degree angle, RP SMA Male Connector, 1.2 and 4.26 dBi Gain KPAN-RBD1043](https://www.kpperformance.com/2.4-ghz-to-5.85-ghz-antenna-90-degree-angle-sma-male-reverse-polarity-connector-1.2-and-4.26-dbi-gain-kpanrbd1043-p.aspx)

URL: <https://www.kpperformance.com/2.4-ghz-to-5.85-ghz-antenna-90-degree-angle-sma-male-reverse-polarity-connector-1.2-and-4.26-dbi-gain-kpanrbd1043-p.aspx>

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KPANRBD1043 CAD Drawing



ZONE		REVISION		CHANGED BY		APPROVED	
A	REV	DESCRIPTION	DATE	DMAY	KHIETPAS		
	A	INITIAL RELEASE	04/05/2023				

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
 SCALE NONE
 SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS
 TOLERANCES:
 X = ±.2 [.5] FRACTIONS
 XX = ±.02 [.5] ANGLES ± 1°
 XXX = ±.005 [.13] ANGLES ± 1°
 CABLE LENGTH TOLERANCES:
 ≤ 12 [305] ± .001 [25] / -0
 > 12 [305] ± .001 [25.4] = ±.0015 [1] / -0
 > 60 [1524] ± .001 [25.4] = ±.0015 [1] / -0
 > 120 [3048] ± .001 [25.4] = ±.0015 [1] / -0
 > 300 [7620] ± .0015 [1] = ±.0015 [1] / -0
 ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE

DESCRIPTION: 2.4/5 GHz R/A RP-SMA ANTENNA

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	LOND8	DMAY	KPANRBD1043

REV A

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