

## 860 MHz to 870 MHz Antenna, Monopole, RP SMA Male Connector, 2 dBi Gain

### KPANRBD1038



#### Features

- 860-870 MHz, 2 dBi Gain
- SMA male connector
- Plug and play
- VSWR < 2:1
- Linear polarization
- Monopole antenna

#### Applications

- Public Safety
- Security, construction sites
- IOT sensors and trackers
- Wireless communications
- Remote control
- Industrial monitoring and tracking
- Amateur radio

#### Description

The KP performance KPANRBD1038 is an 860 MHz to 870 MHz antenna that is ideal for public safety, security, construction, wireless communications, IOT sensors, IOT trackers, wireless microphones, remote control, amateur radio, industrial monitoring and data transmission applications. This IPx7-rated communication antenna has a black radome made from TPEE or ABS material. Our antenna is 0.55 inches wide, 3.82 inches long and 0.55 inches tall.

These omni antennas have a waterproof design, linear polarization and a RP-SMA type male connector. This IPx7-rated KPANRBD1038 antenna transmits high-power signals, increasing the signal strength, thus providing improved coverage, better-broadcast control and faster speed. KP performance monopole antenna has a gain of 2 dBi for the 860 MHz to 870 MHz 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 straight angle, or at any angle in between. KP Performance 2 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 KPANRBD1038 omnidirectional antenna has a maximum input VSWR of 2:1, which results in the best power transfer and reduced losses.

The KP performance has one of the largest in-stock collections of 2 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 860 MHz to 870 MHz antenna as per your requirements.

#### Configuration

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

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	860		870	MHz
Input VSWR			2:1	
Impedance		50		Ohms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[860 MHz to 870 MHz Antenna, Monopole, RP SMA Male Connector, 2 dBi Gain KPANRBD1038](#)

860 MHz to 870 MHz Antenna, Monopole,  
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**KPANRBD1038**

Gain	2	dBi
Input Power	10	Watts

**Mechanical Specifications**

Radome Material	TPEE/ABS
<b>Size</b>	
Length	3.82 in [97.03 mm]
Width	0.55 in [13.97 mm]
Height	0.55 in [13.97 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	IPx7
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**Plotted and Other Data**

Notes:

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**KPANRBD1038**



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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.

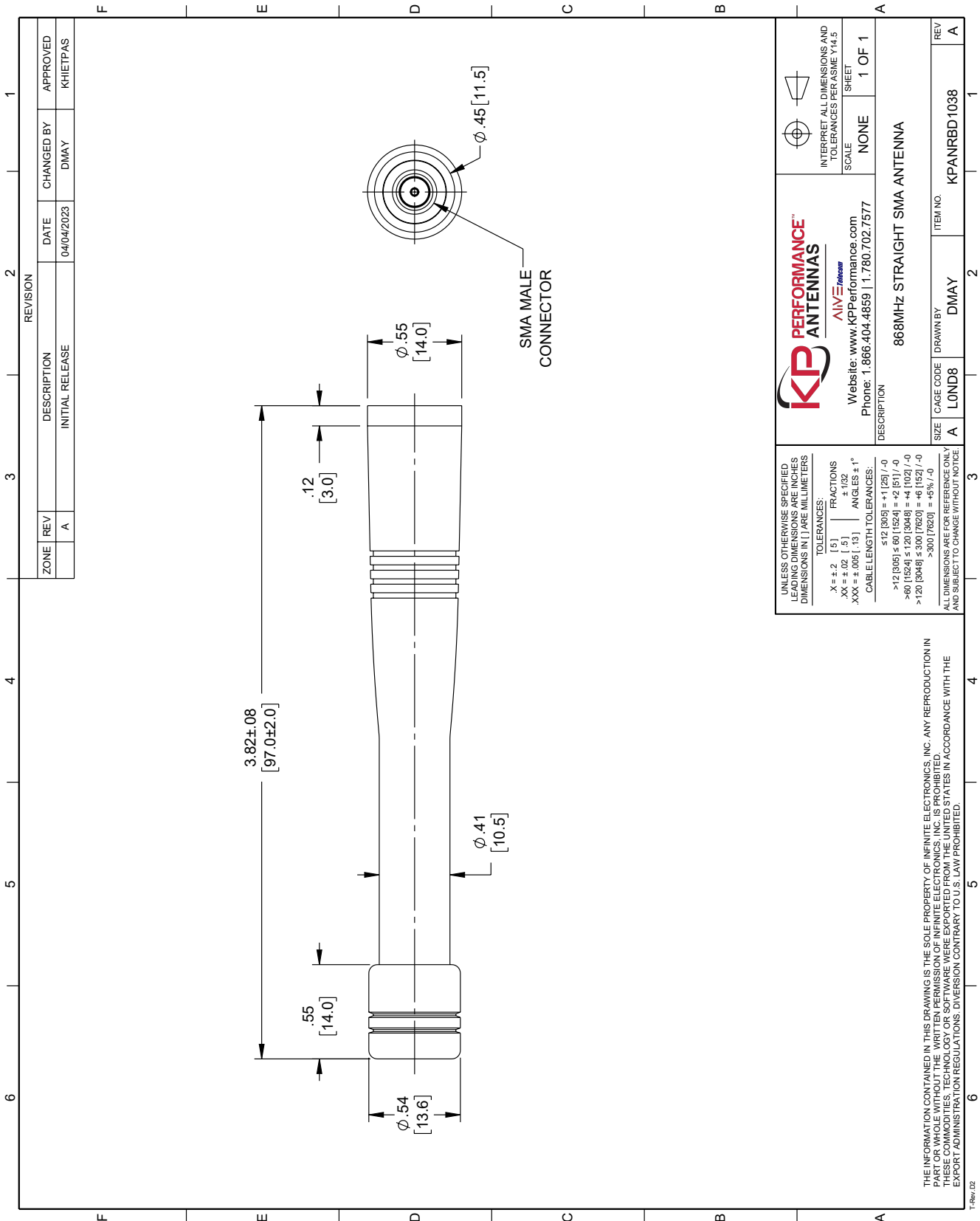
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [860 MHz to 870 MHz Antenna, Monopole, RP SMA Male Connector, 2 dBi Gain KPANRBD1038](#)

URL: <https://www.kpperformance.com/860-mhz-to-870-mhz-antenna-straight-angle-sma-male-reverse-polarity-connector-2-dbi-gain-kpanrbd1038-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.

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KPANRBD1038 CAD Drawing



ZONE		REVISION		CHANGED BY		APPROVED	
A	1	INITIAL RELEASE	04/04/2023	DMAY	KHIETPAS		

**KP PERFORMANCE™ ANTENNAS**  
 AIVE™ *Antenna*  
 Website: [www.kpperformance.com](http://www.kpperformance.com)  
 Phone: 1.866.404.4859 | 1.780.702.7577

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]  
 CABLE LENGTH TOLERANCES:  
 ≤ 12 [305] ± 0.125 / -0  
 > 12 [305] ± 0.1524 / -0  
 > 60 [1524] ± 0.300 [7620] = +6 [152] / -0  
 > 300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

DESCRIPTION: 868MHz STRAIGHT SMA ANTENNA

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	LOND8	DMAY	KPANRBD1038

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