

Description: 2.4-2.5 / 5.15-7.125GHz Stick Antenna

**PART NUMBER: W5028X** 

**Series: External Antenna** 





## Features:

- WiFi Dual-Band
- DSRC
- Multi banded 2.4/5-7GHz
- IP65
- P/N W5028:
  - R/A RP SMA 128.05mm
- P/N: W5028RPG:
  - RP SMA 130mm

## **Applications:**

- WiFi-6E (2.4GHz, 5-7GHz), Zigbee, BLE/BT,
- DSRC V2x communication
- Rugged Outdoor Systems
- Marine, Mining, Utility, Oil/Gas Environments
- · Industrial Applications
- Metering, Security, IoT Applications
- Outdoor Networking
- Data Transmission, Access Points

Issue: 2103

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION

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| ELECTRICAL SPECIFICATIONS |               |                          |  |  |
|---------------------------|---------------|--------------------------|--|--|
| Frequency                 |               | 2.4-2.5GHz/5.15-7.125GHz |  |  |
| Nominal Impedance         |               | $50\Omega$               |  |  |
| Return Loss               |               |                          |  |  |
|                           | 2.4-2.5GHz    | <-10dB                   |  |  |
|                           | 5.15-7.125GHz | <-6dB                    |  |  |
| Peak Gain                 |               |                          |  |  |
|                           | 2.4-2.5GHz    | 1.5dBi +/-0.5 dB         |  |  |
|                           | 5.15-7.125GHz | 2.2dBi +/-1dB            |  |  |
| Radiation Pattern         |               | Omni in Horizontal plane |  |  |
| Polarization:             |               | Vertical                 |  |  |
| Power withstanding        |               | 1W                       |  |  |
| Connector type            |               |                          |  |  |
| W5028                     |               | Right Angle RP SMA male  |  |  |
| W5028RPG                  |               | Straight RP SMA male     |  |  |



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| MECHANICAL SPECIFICATIONS |          |        |       |  |
|---------------------------|----------|--------|-------|--|
| Plastic radome            |          |        | TPEE  |  |
| Color                     |          |        | Black |  |
| IP Rate                   |          |        | IP65  |  |
| Weight                    |          |        |       |  |
|                           | W5028    | 16.65  | g     |  |
|                           | W5028RPG | 12.6   | g     |  |
| Overall Length            |          |        |       |  |
|                           | W5028    | 128.05 | mm    |  |
|                           | W5028RPG | 130    | mm    |  |

## **ENVIRONMENTAL SPECIFICATIONS**

Operating temperature -35/+80° C

Storage Temperature -40/+85° C





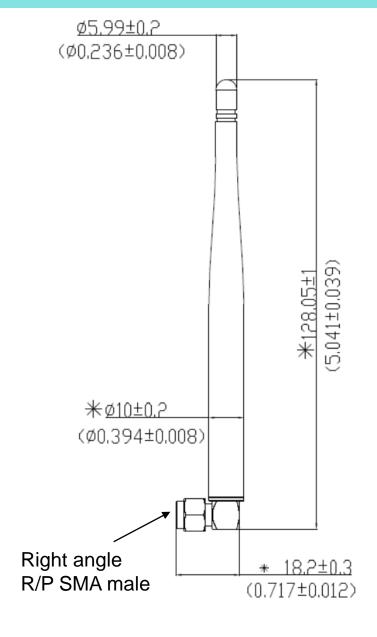


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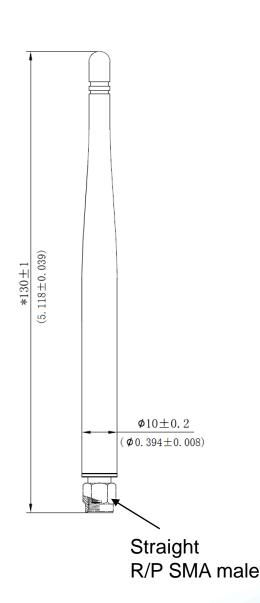
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## **MECHANICAL DRAWING**







W5028RPG



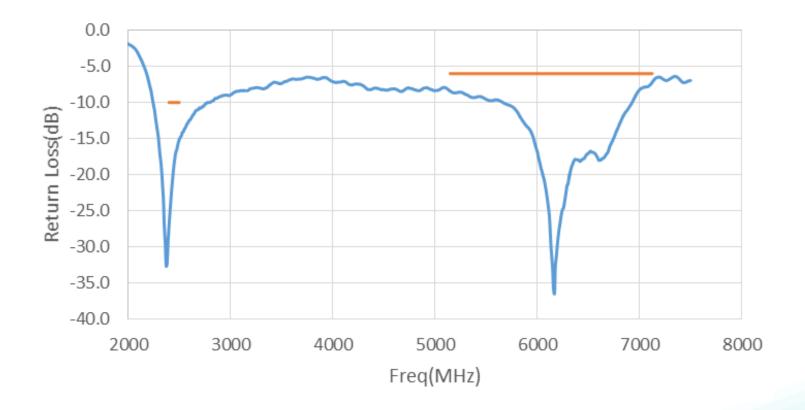


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## **CHARTS**

## Return Loss





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#### TECHNICAL DATA SHEET

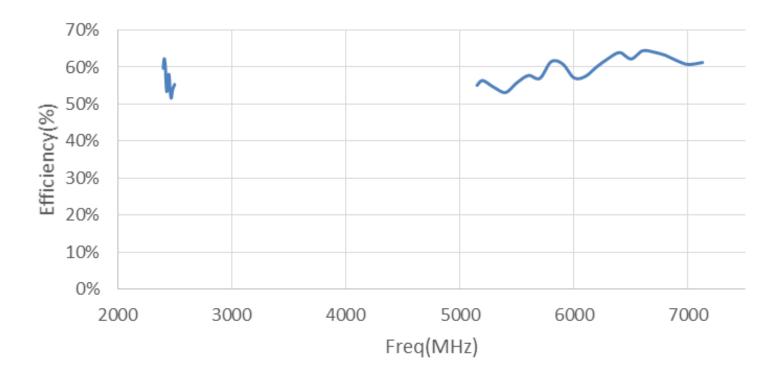
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## **CHARTS**

# Efficiency(%)





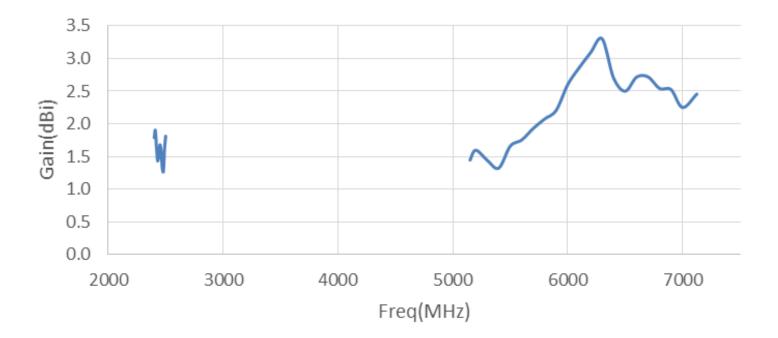


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## **CHARTS**

# Peak Gain (dBi)





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#### **CHARTS**

# Free Space Radiation Pattern

#### **Elevation Plane** Horizontal Plane **ZX Plane** XY Plane 2400M 2400MHz Avg(dBi) = Avg(dBi) = -0.18Peak(dBi) = 1.40 Peak(dBi) = 1.31 Avg - 3(deg) = 108.5Avg -3(deg) = 359.5 2450MHz 2450MHz 300 300 Avg (dBi) = -0.17 Peak (dBi) = 1.18 Avg (dBi) = -3.14 Peak (dBi) = 1.29 Avg -3 (deg) = 104.5 Avg -3 (deg) = 359.5 2500MHz 2500MHz Avg (dBi) = -3.32270 Avg (dBi) = -0.40Gain Peak (dBi) = 1.36 Peak (dBi) = 0.96 Avg - 3 (deg) = 100.5Avg -3 (deg) = 359.5 Phi Angle (°) -2400MHz --- 2450MHz --- 2500 -2400MHz ----2450MHz ----2500MHz

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#### DADT NIIMBE

#### **CHARTS**

# Free Space Radiation Pattern

#### **Elevation Plane** Horizontal Plane **ZX Plane** XY Plane 0 0 5150MHz 5150MHz Avg(dBi) = -3.91Avg(dBi) = -4.50Peak(dBi) = -0.35 Peak(dBi) = -2.78 Avg - 3(deg) = 147.5Avg -3(deg) = 333.5 6000MHz 6000MHz 300 Avg (dBi) = -4.47 Avg (dBi) = -2.87Peak (dBi) = 1.46 Peak (dBi) = -1.50 Avg -3 (deg) = 111.5 Avg -3 (deg) = 142.5 7125MHz 7125MHz (dBi) Gain (dBi) Avg (dBi) = -2.66Avg (dBi) = -5.15Peak (dBi) = 2.40 Peak (dBi) = -0.66 Avg - 3 (deg) = 72.5Avg - 3 (deg) = 100.5150 Phi Angle (°) Phi Angle (°) -5150MHz --6000MHz ---- 7125 -5150MHz --6000MHz --7125MHz

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## **PACKAGING**

20PCS/Bullet PE bag
30 Bullet PE bag/ Carton box
Total 600PCS antenna/ Carton box

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