

# External / In-building WiFi-6E Stick Antenna

W5029, W5029RASM, W5029RPG, W5029RPGT



W5029

W5029RASM

W5029RPG

W5029RPGT

- WiFi-6E, 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

Electrical Specifications @ 25C - Operating Temperature -35C to 65C, Storage Temperature -30C to 75C

Frequency Bands: 2.4-2.5GHz, 5.15-7.125GHz

| Antenna Type  | Nominal Impedance | Radiation Pattern | Polarization    | Power Withstanding |
|---------------|-------------------|-------------------|-----------------|--------------------|
| Stick Antenna | 50Ω               | Omni              | Vertical        | 1W                 |
| Frequency     |                   | 2.4-2.5GHz        | 5.15-7.125GHz   |                    |
| Return Loss   |                   | <-10dB            | <-4dB           |                    |
| Peak Gain     |                   | 1.8dBi +/- 0.4dB  | 2.55dBi +/- 2dB |                    |

Frequency GPS Antenna: 1561.098 +/- 2.046MHz, 1575.42 +/- 1.023MHz, 1602.5625 +/- 4MHz

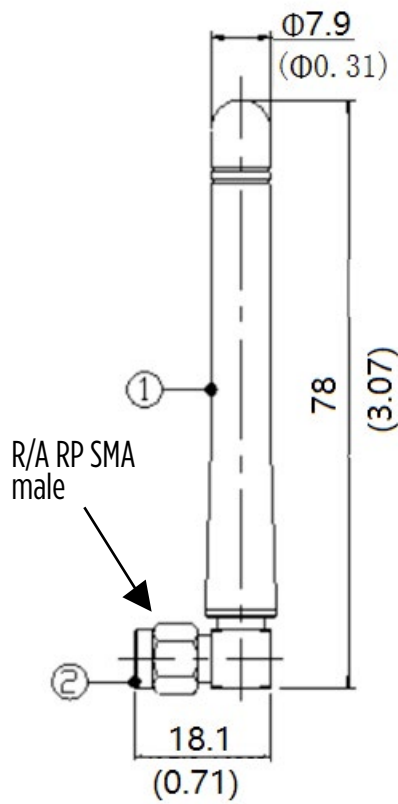
| Part Number | Length | Color | Weight    | Connector Type                       | Plastic Radome | Flammability | Ingress Protection |
|-------------|--------|-------|-----------|--------------------------------------|----------------|--------------|--------------------|
| W5029       | 78mm   | Black | 11.36grms | Right Angle RP SMA Male (Au Plating) | TPEE           | UL94-V0      | IP65               |
| W5029RASM   | 78mm   |       | 11.36grms | Right Angle SMA male (Au Plating)    |                |              |                    |
| W5029RPG    | 76mm   |       | 7.82grms  | Straight RP SMA Male (Au Plating)    |                |              |                    |
| W5029RPGT   | 76mm   |       | 7.82grms  | Straight RP SMA Male (Ni Plating)    |                |              |                    |

# External / In-building WiFi-6E Stick Antenna

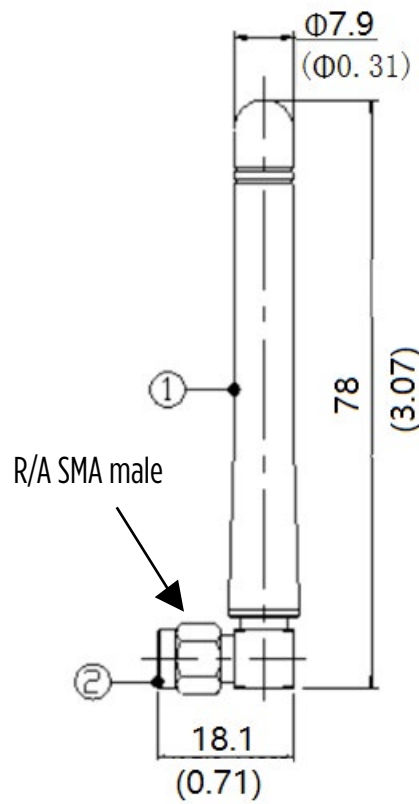
W5029, W5029RASM, W5029RPG, W5029RPGT

## Mechanical

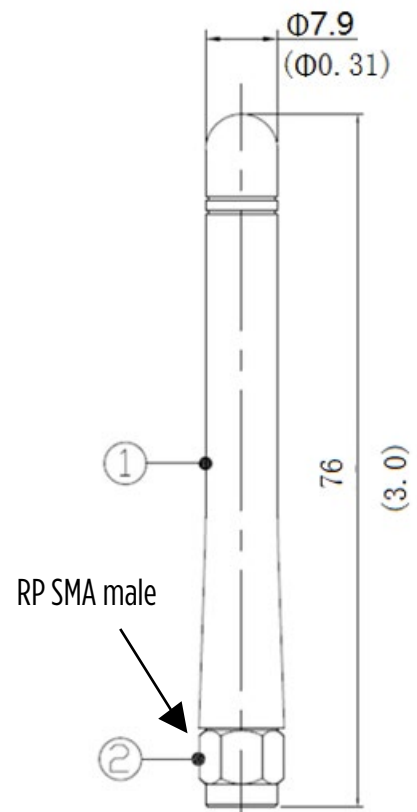
### W5029x



**W5029**



**W5029RASM**



**W5029RPG/W5029RPGT**

1. Dimension show as mm (inch)
2. Item 1 is tube, and item 2 is connector

## Packaging

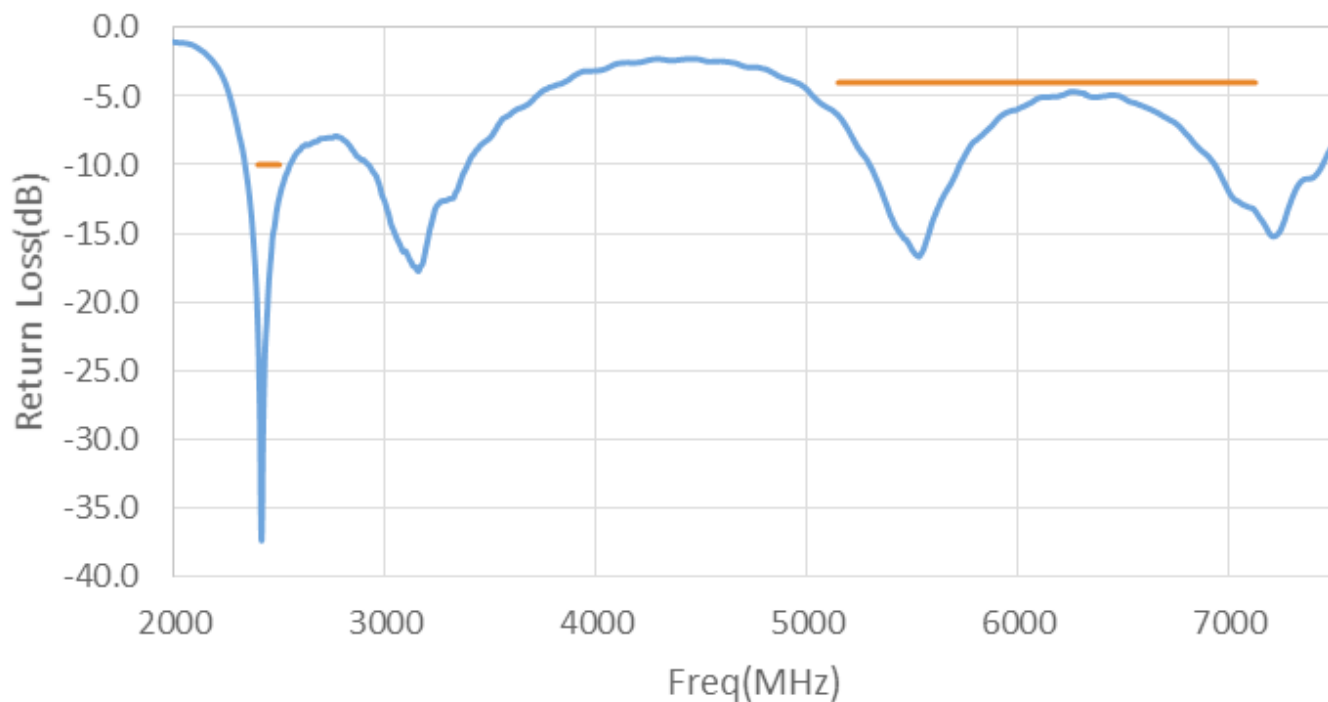
### W5029x

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

Charts

W5029x

Return Loss

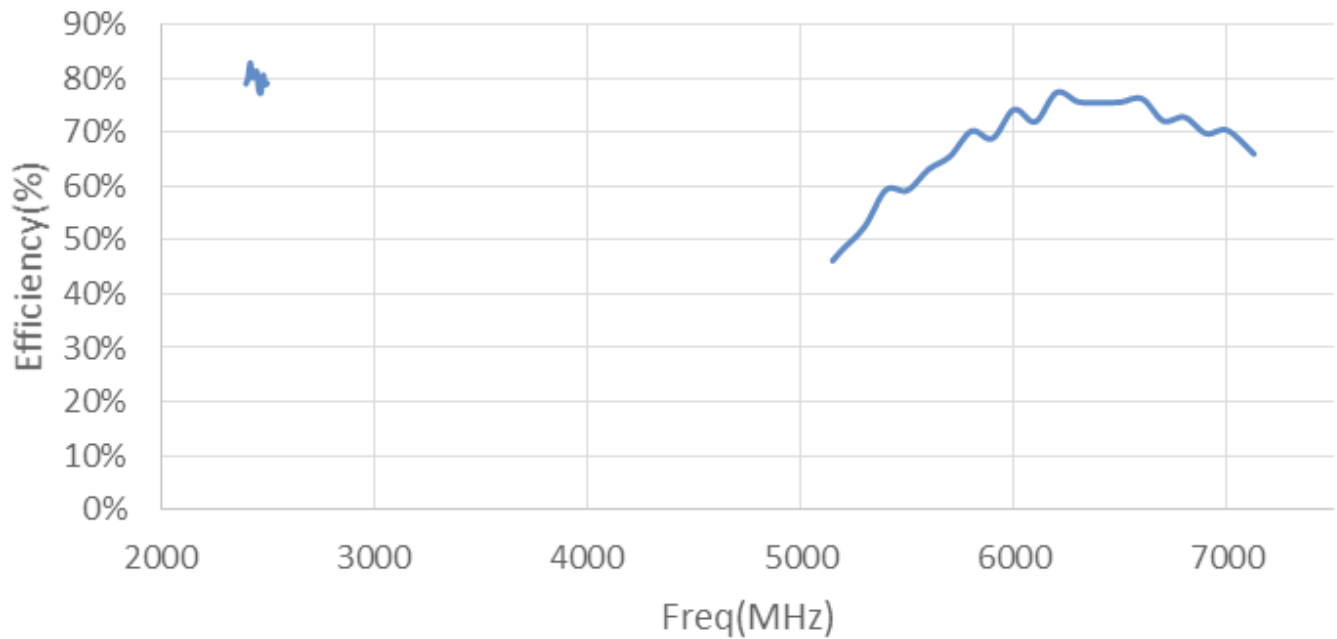


(\*) All RF parameters measure with free space

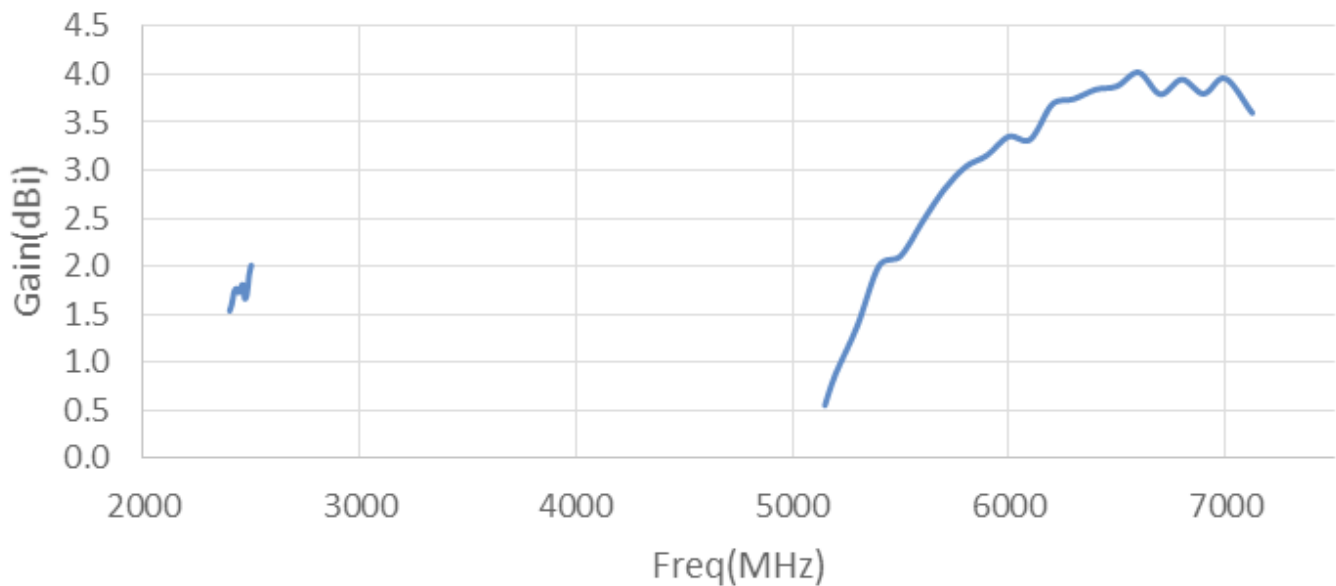
## External / In-building WiFi-6E Stick Antenna

W5029, W5029RASM, W5029RPG, W5029RPGT

**Efficiency(%)**

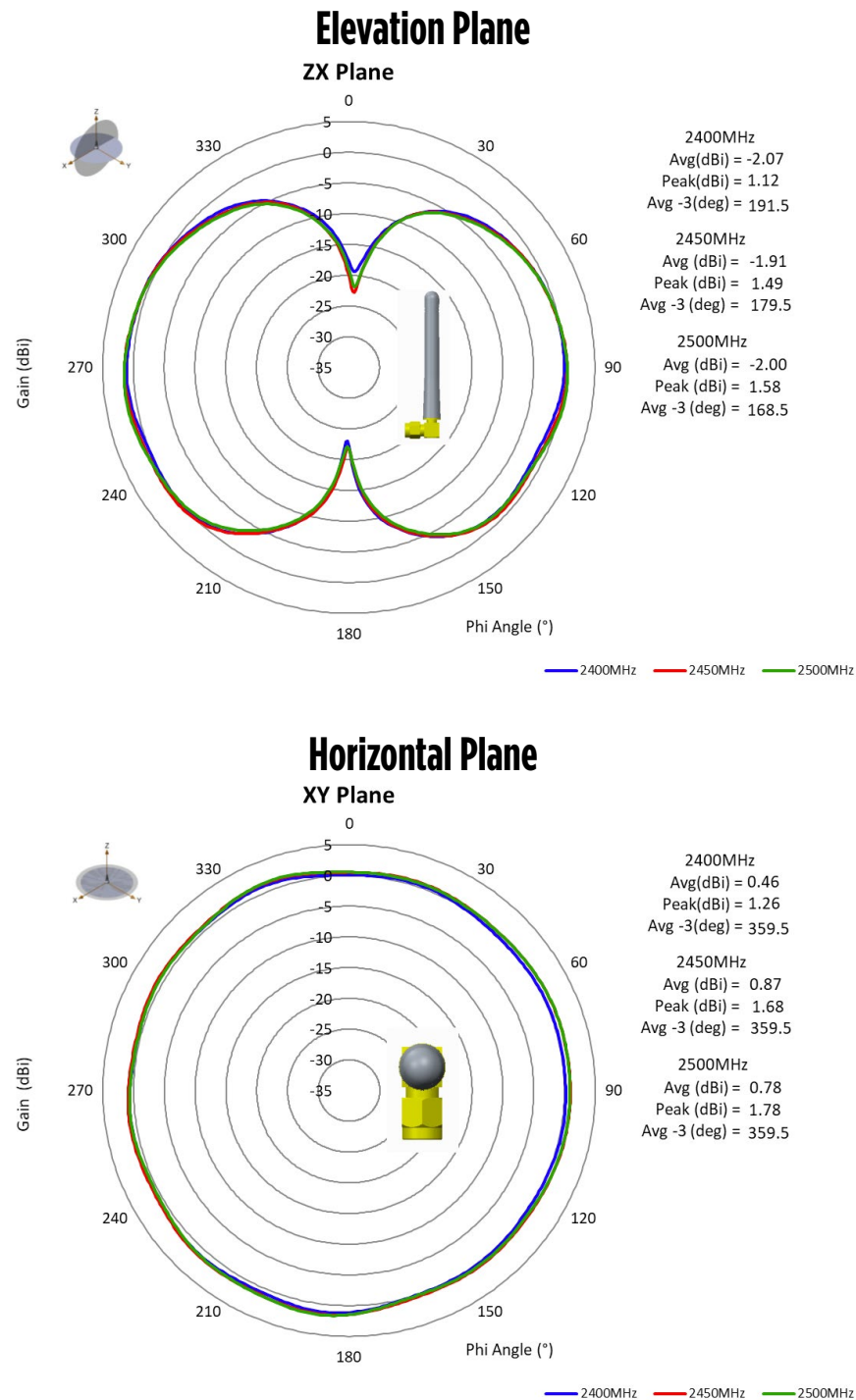


**Peak Gain (dBi)**



(\*) All RF parameters measure with free space

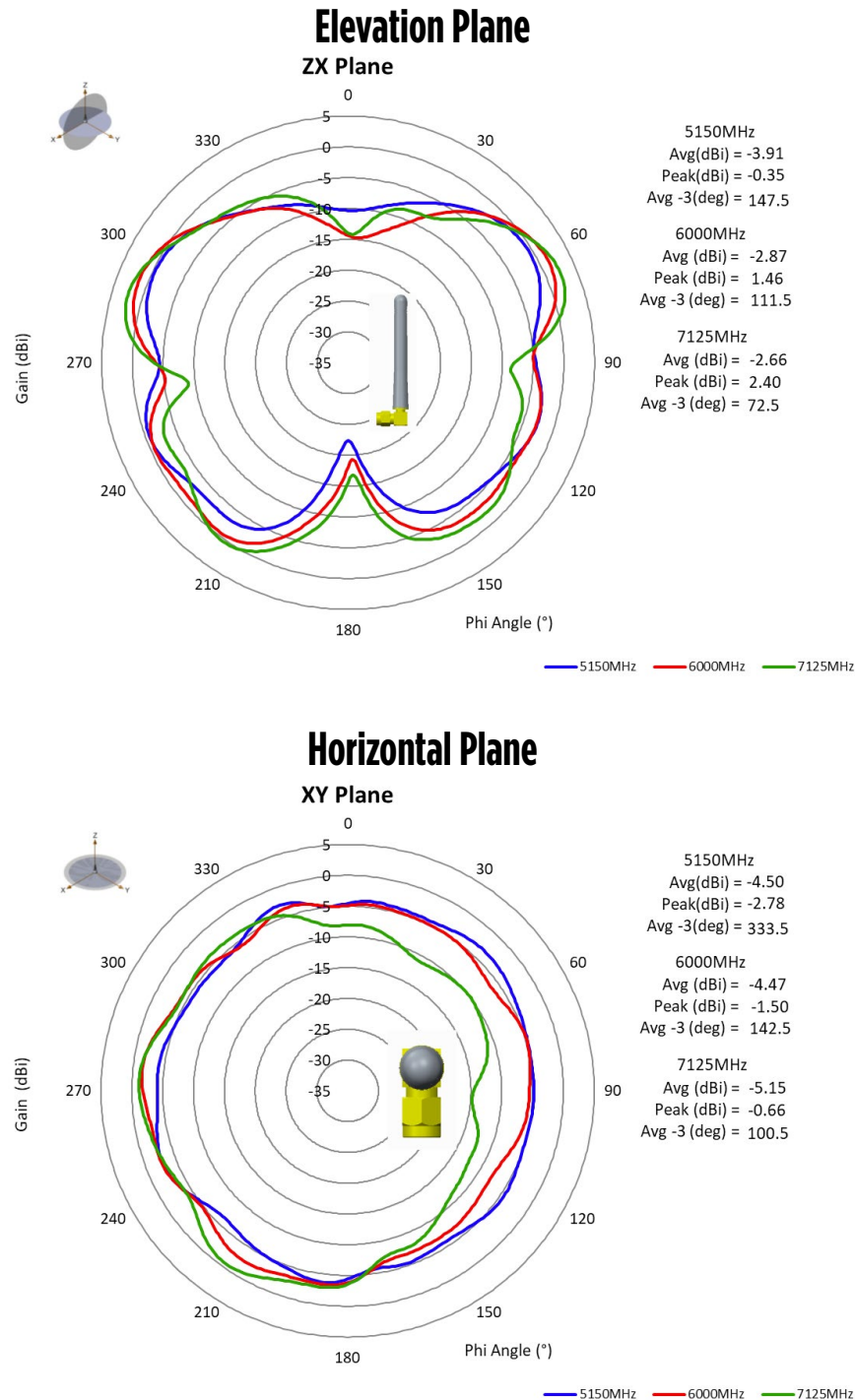
## Free Space Radiation Pattern



(\*) All RF parameters measure with free space

# External / In-building WiFi-6E Stick Antenna

W5029, W5029RASM, W5029RPG, W5029RPGT



(\*) All RF parameters measure with free space

## For More Information:

Americas - [antennas.us@pulseelectronics.com](mailto:antennas.us@pulseelectronics.com) | Europe - [antennas.eu@pulseelectronics.com](mailto:antennas.eu@pulseelectronics.com) | Asia - [antennas.as@pulseelectronics.com](mailto:antennas.as@pulseelectronics.com) | Questions? +1-800-ANTENNA

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2020. Pulse Electronics, Inc. All rights reserved.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Pulse:](#)

[W5029RASM](#)