

Description: 2.4-2.5 / 5.15-5.925GHz Stick Antenna

**PART NUMBER: W5028X** 

**Series: External Antenna** 



## Features:

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

# **Applications:**

- Zigbee, BLE/BT, WLAN (2.4GHz, 5GHz)
- 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: 1651

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/5.15-5.925GHz	
Nominal Impedance		$50\Omega$	
Return Loss			
	2.4-2.5GHz	<-10dB	
	5.15-5.85GHz	<-4dB	
	5.55GHz	<-10dB	
Peak Gain			
	2.4-2.5GHz	1.9dBi +/-1 dB	
	5.15-5.85GHz	3.8dBi +/-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



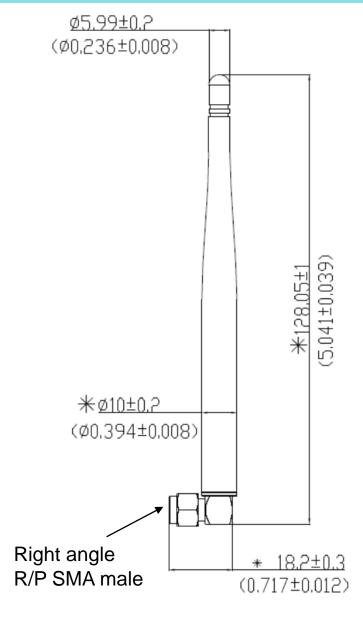


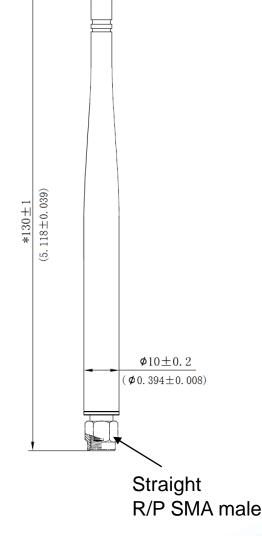
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## **MECHANICAL DRAWING**





W5028 W5028RPG



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# **CHARTS** Return Loss Return Loss 0.00 -5.00 -10.00 -15.00-20.00 -25.00 -30.00 -35.00 -40.00 Frequency 2080.00 2250.00 2250.00 2250.00 2250.00 2250.00 2250.00 2250.00 2250.00 2250.00 2250.00 2250.00 3350.00 3350.00 3350.00 3350.00 3350.00 3350.00 3350.00 4200.00 6200



Return Loss —

Spec



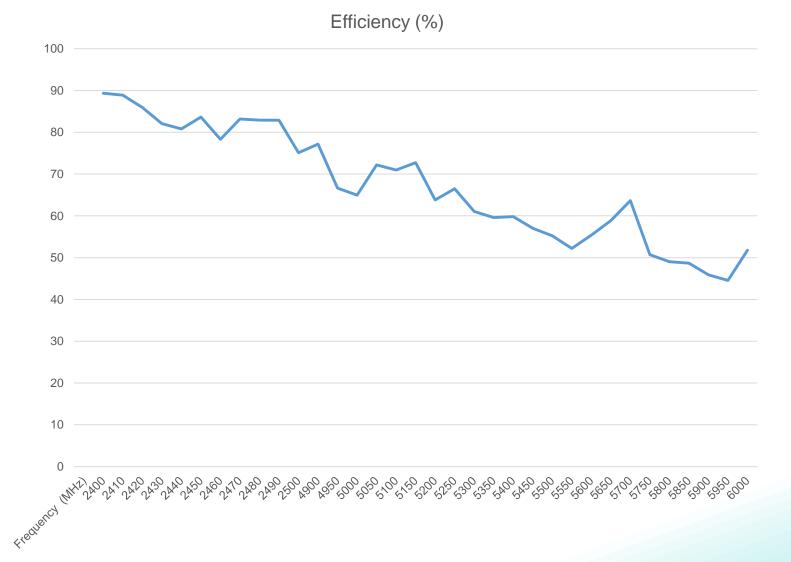
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### **CHARTS**

Efficiency(%)



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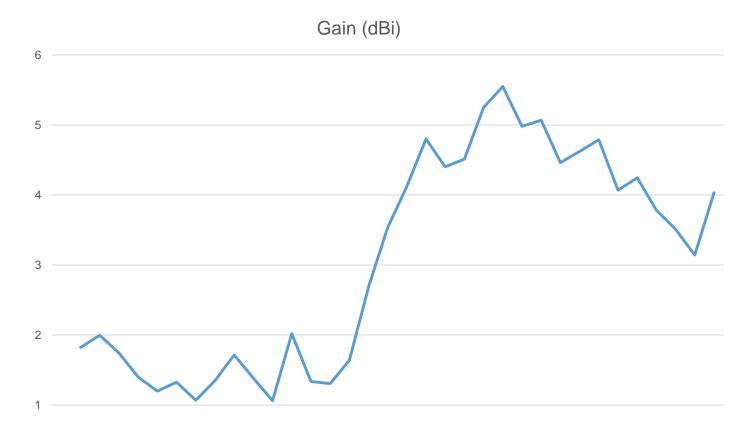
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#### **CHARTS**

# Peak Gain (dBi)









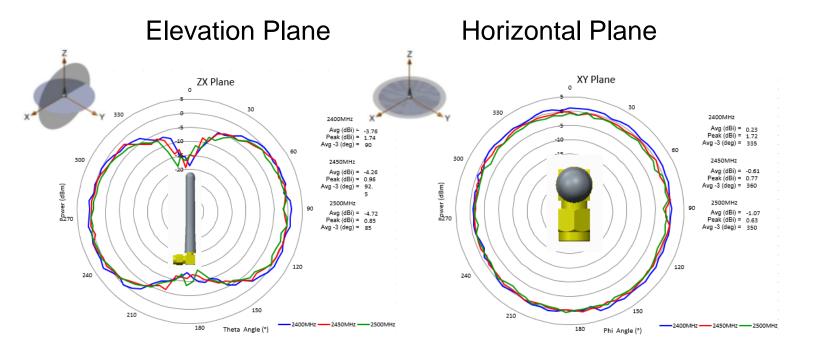
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#### **CHARTS**

# Free Space Radiation Pattern



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ROHS



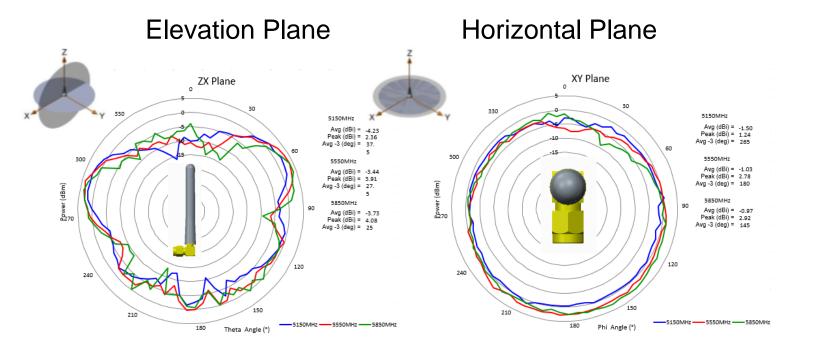
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#### **CHARTS**

# Free Space Radiation Pattern









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## **PACKAGING**

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