

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		50Ω		
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





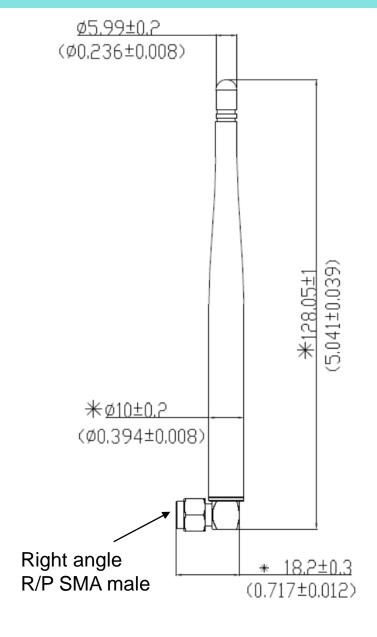


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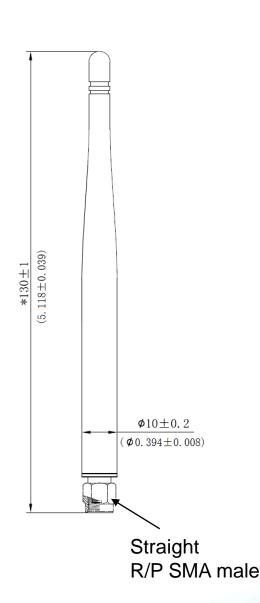
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MECHANICAL DRAWING







W5028RPG



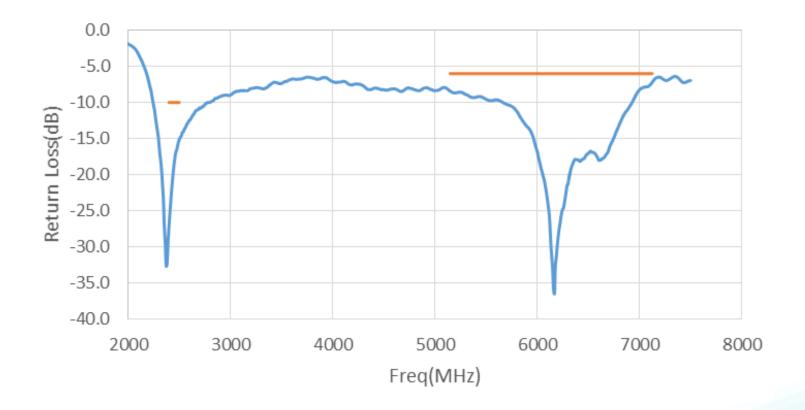


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CHARTS

Return Loss





Pulse a YAGEO company

TECHNICAL DATA SHEET

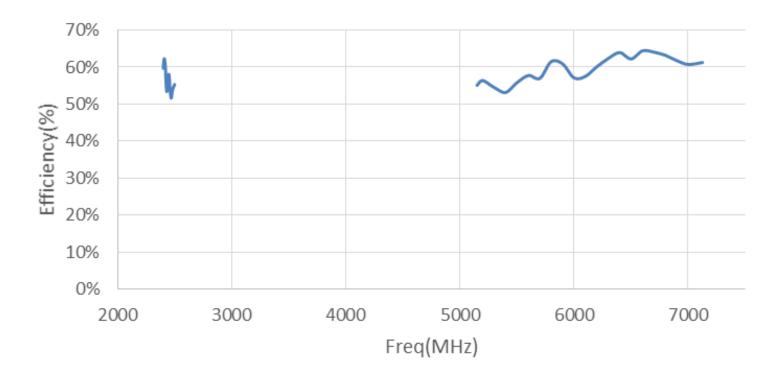
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CHARTS

Efficiency(%)





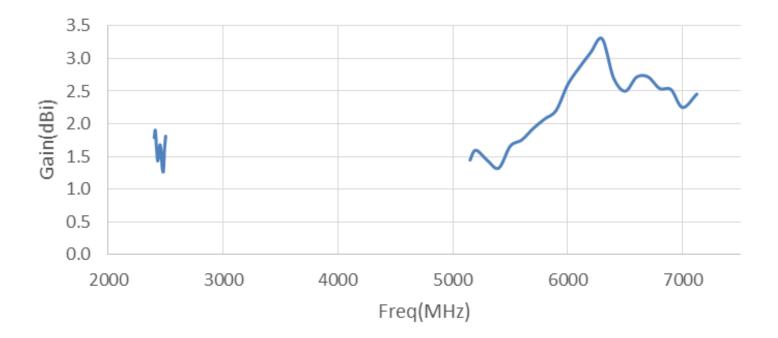


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CHARTS

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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TECHNICAL DATA SHEET

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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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TECHNICAL DATA SHEET

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PACKAGING

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