

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

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden. For more information:

Pulse Worldwide Headquarters 12220 World Trade Drive San Diego, CA 92128 USA Tel:1-858-674-8100 Pulse/Larsen Antennas 18110 SE 34th St Bldg 2 Suite 250 Vancouver, WA 98683 USA Tel: 1-360-944-7551 Europe Headquarters Pulse GmbH & Do, KG Zeppelinstrasse 15 Herrenberg, Germany Tel: 49 7032 7806 0 Pulse (Suzhou) Wireless Products Co, Inc. 99 Huo Ju Road(#29 Bldg,4th Phase Suzhou New District Jiangsu Province, Suzhou 215009 PR China Tel: 86 512 6807 9998



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

PART NUMBER: W5028X

Series: External Antenna

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		



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

PART NUMBER: W5028X

Series: External Antenna

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





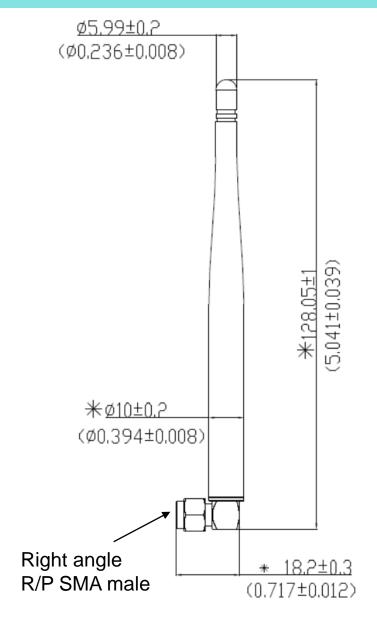


Description: 2.4-2.5 / 5.15-7.125GHz Stick Antenna

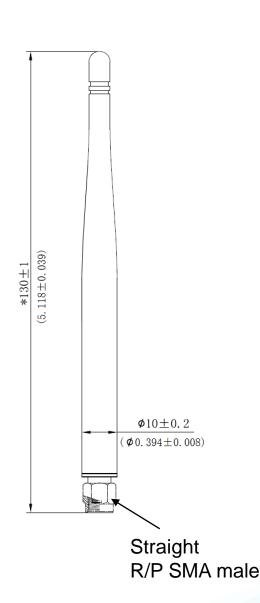
Series: External Antenna

PART NUMBER: W5028X

MECHANICAL DRAWING







W5028RPG



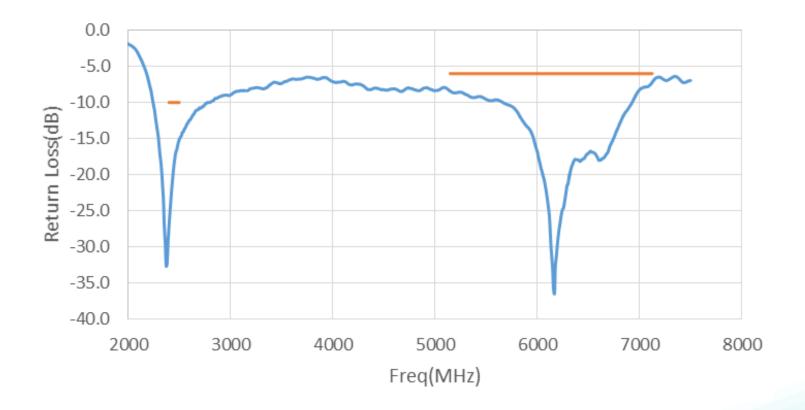


Description: 2.4-2.5 / 5.15-7.125GHz Stick Antenna

PART NUMBER: W5028X

CHARTS

Return Loss





Pulse a YAGEO company

TECHNICAL DATA SHEET

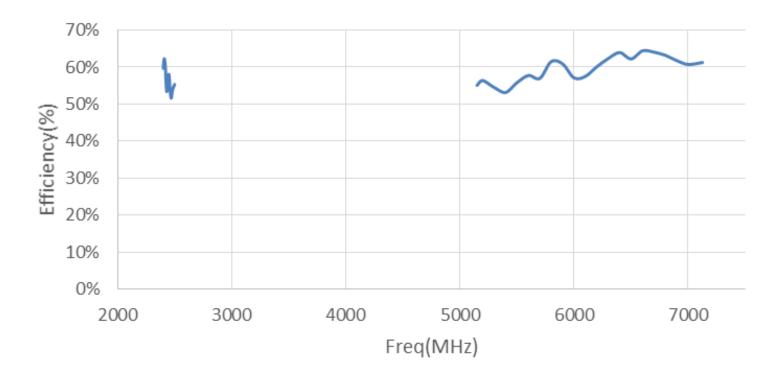
Description: 2.4-2.5 / 5.15-7.125GHz Stick Antenna

PART NUMBER: W5028X

Series: External Antenna

CHARTS

Efficiency(%)





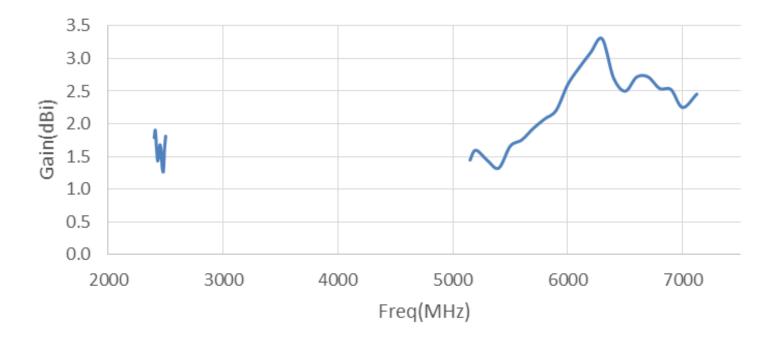


Description: 2.4-2.5 / 5.15-7.125GHz Stick Antenna

PART NUMBER: W5028X

CHARTS

Peak Gain (dBi)





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

PART NUMBER: W5028X

Series: External Antenna

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

Issue: 2103





TECHNICAL DATA SHEET

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

PART NUMBER: W5028X

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

Issue: 2103





TECHNICAL DATA SHEET

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

PART NUMBER: W5028X

PACKAGING

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

Mouser Electronics

Authorized Distributor

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

Pulse: W5028