

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

W5028 and W5028RPG



- Ⓢ WiFi-6E, Zigbee, BLE/BT, DSRC V2x Communication
- Ⓢ Rugged Outdoor Systems
- Ⓢ Marine, Mining, Utility, Oil/Gas
- Ⓢ Industrial Applications
- Ⓢ Metering, Security, IoT Applications
- Ⓢ Outdoor Networking
- Ⓢ Data Transmission, Access Points

**Electrical Specifications @ 25C - Operating Temperature -30C to 80C, Storage Temperature -40C to 85C**

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

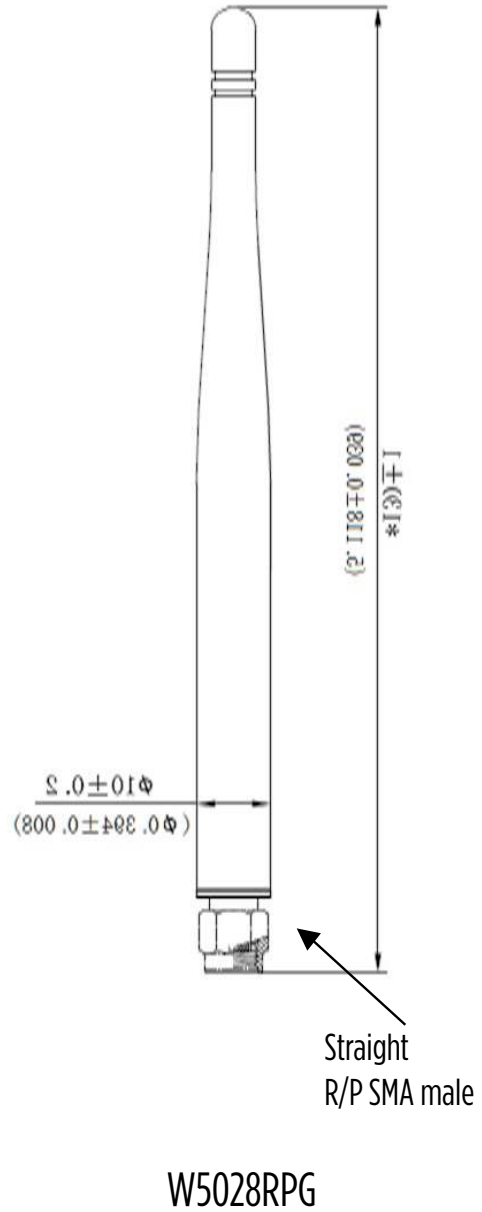
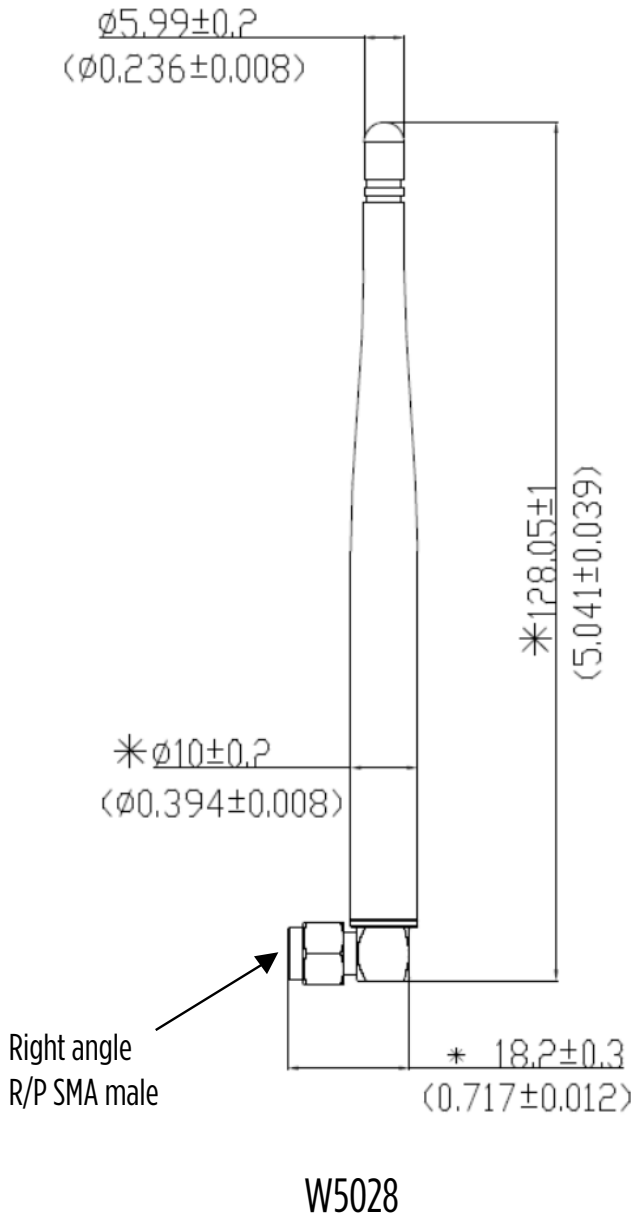
Antenna Type	Nominal Impedance	Radiation Pattern	Polarization	Power Withstanding
Stick Antenna	50Ω	Omni	Vertical	1W
<b>Frequency</b>		<b>2.4-2.5GHz</b>		<b>5.15-7.125GHz</b>
<b>Return Loss</b>		<-10dB		<-6dB
<b>Peak Gain</b>		1.5dBi +/- 0.5dB		2.2dBi +/- 1dB

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
<b>W5028</b>	128mm	Black	16.7grms	Right Angle RP SMA Male	TPEE	UL94-V0	IP65
<b>W5028RPG</b>	130mm		12.6grms	Straight RP SMA Male			

Mechanical

W5028x



Packaging

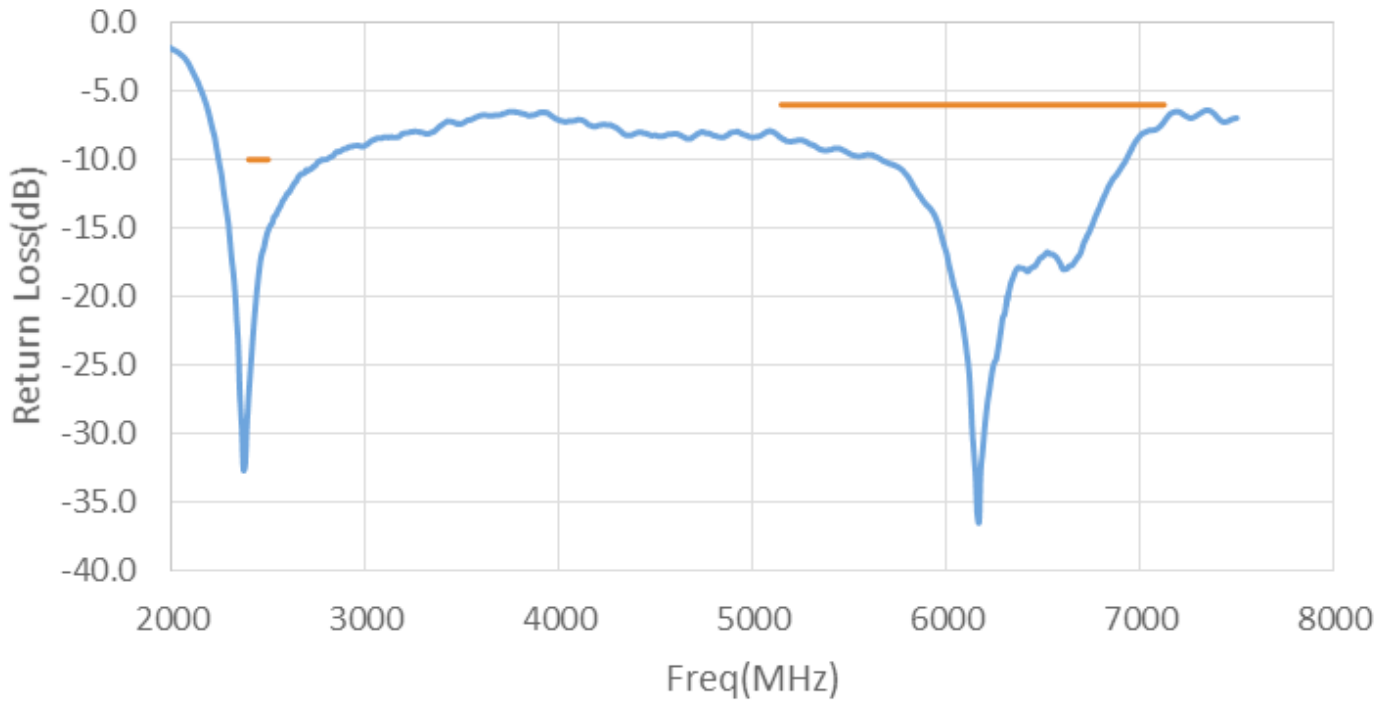
W5028x

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

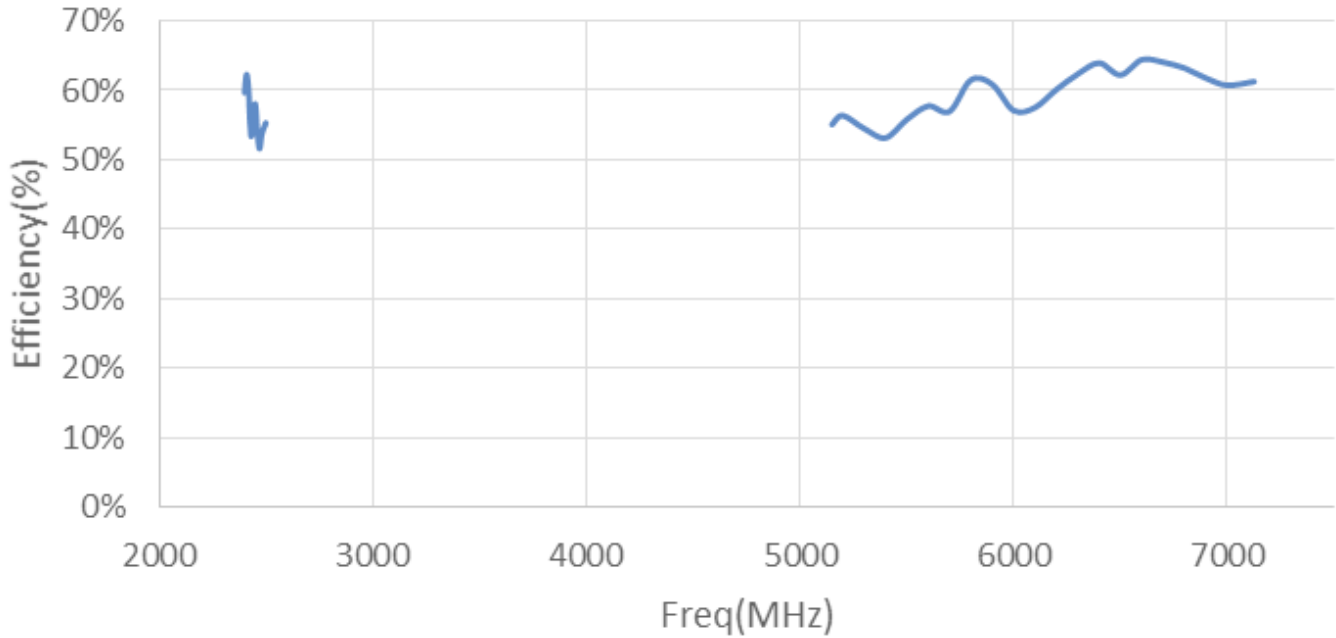
Charts

W5028x

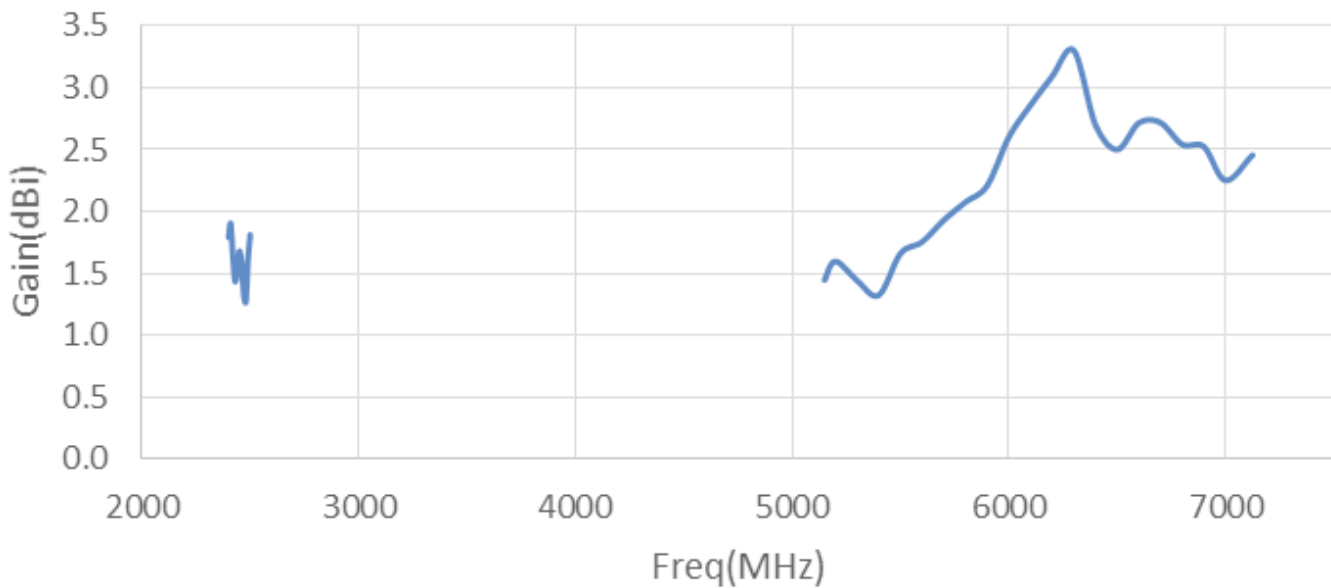
Return Loss



### Efficiency(%)

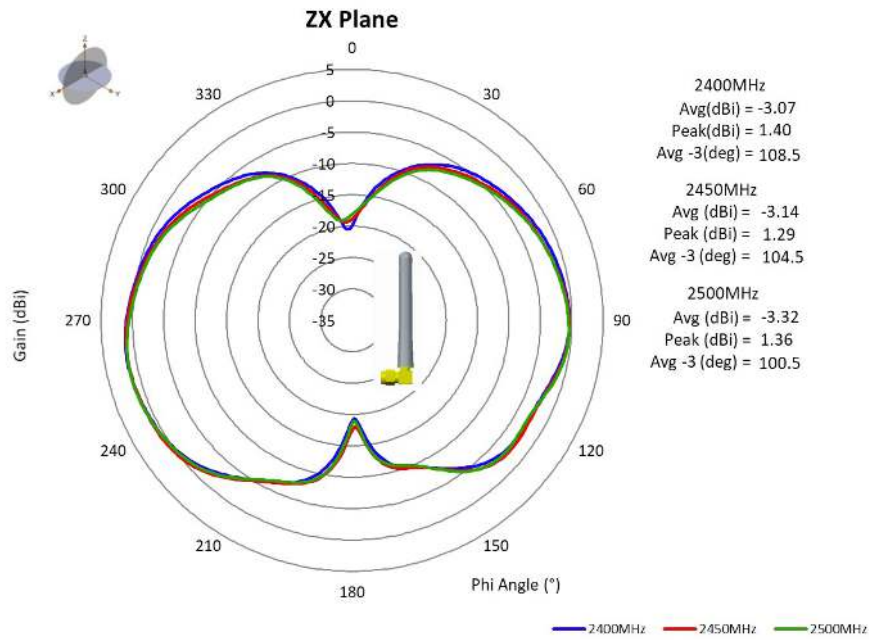


### Peak Gain (dBi)

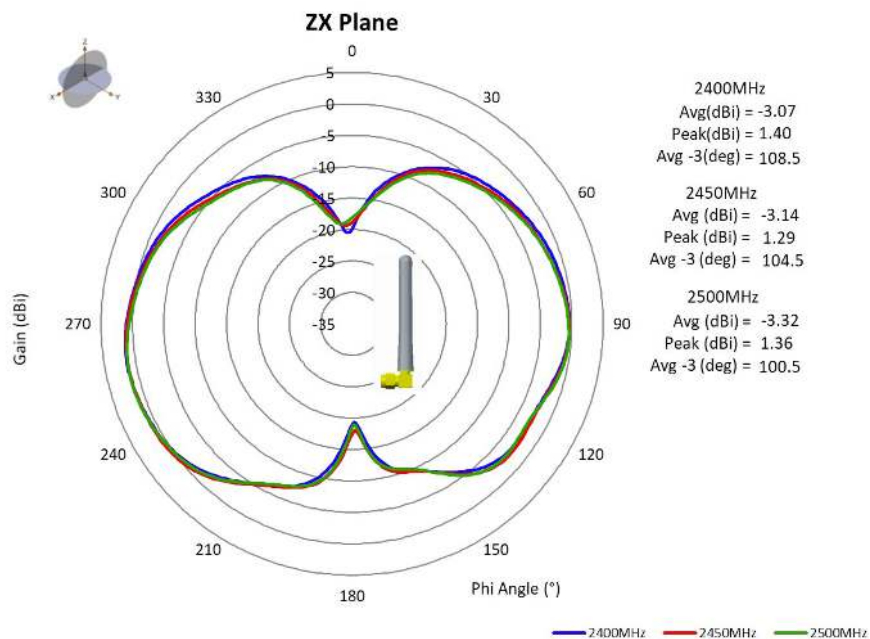


## Free Space Radiation Pattern

### Elevation Plane



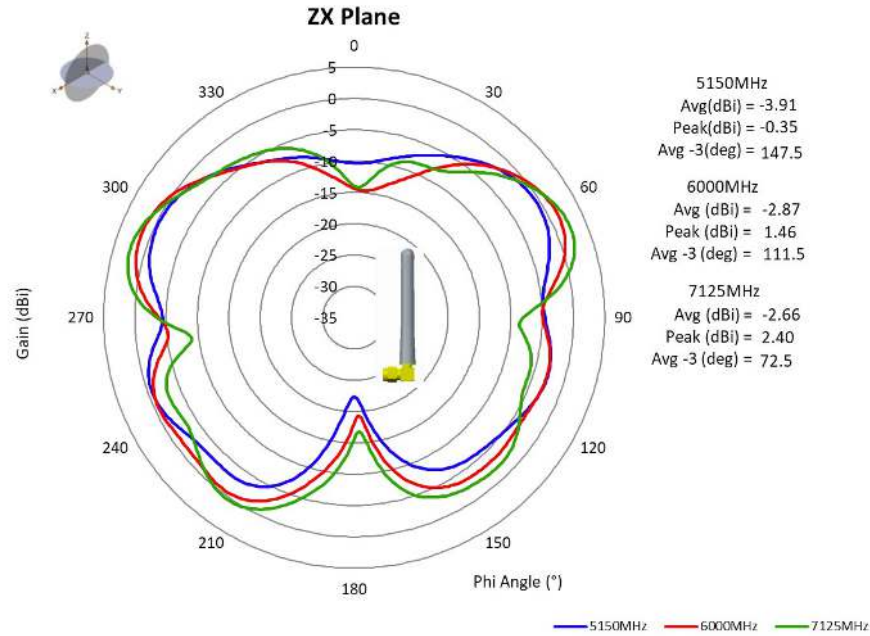
### Horizontal Plane



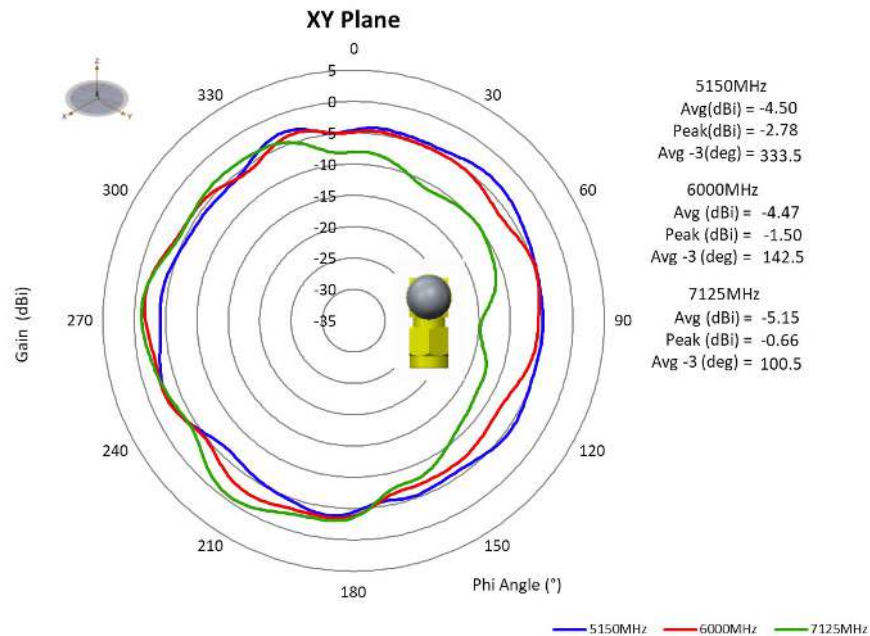
# External / In-building WiFi-6E Stick Antenna

W5028 and W5028RPG

## Elevation Plane



## Horizontal Plane



### 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.