Pulse
a YAGEO company

TECHNICAL DATA SHEET

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

Series: External Antenna

PART NUMBER: W5028X



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

RoHS COMPLIANT

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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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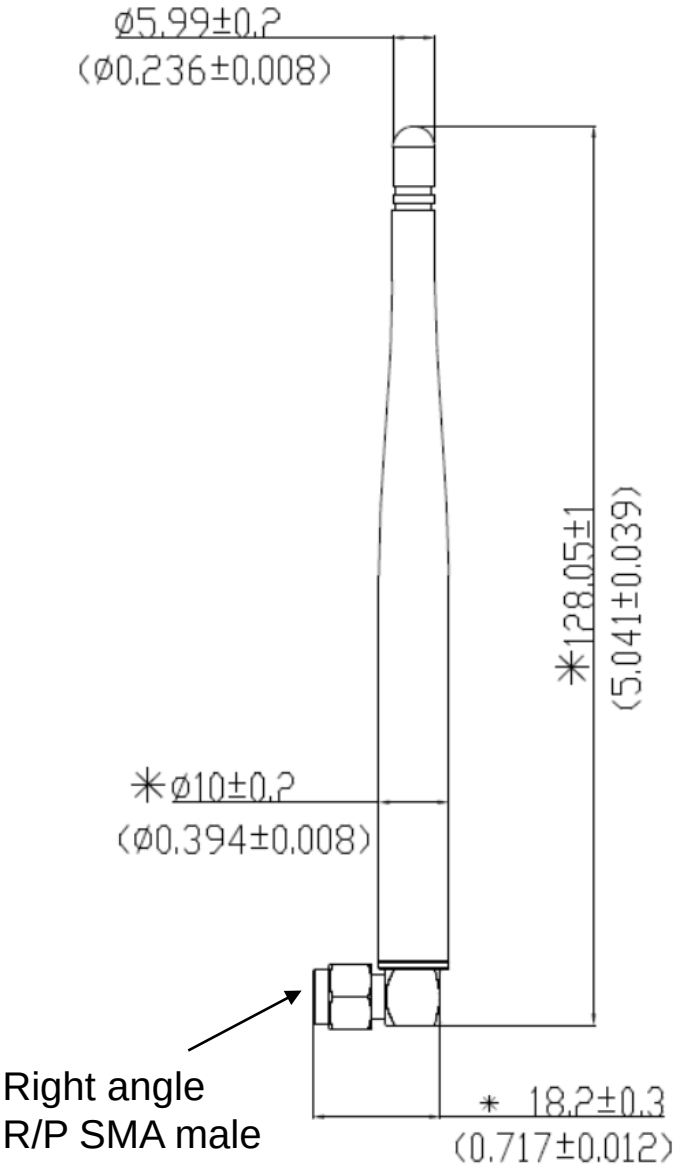
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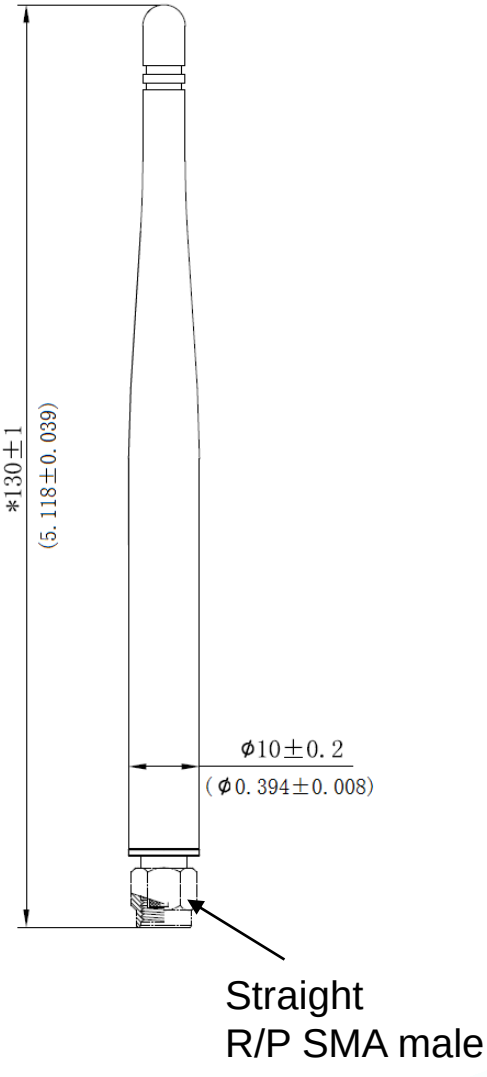
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MECHANICAL DRAWING



W5028



W5028RPG

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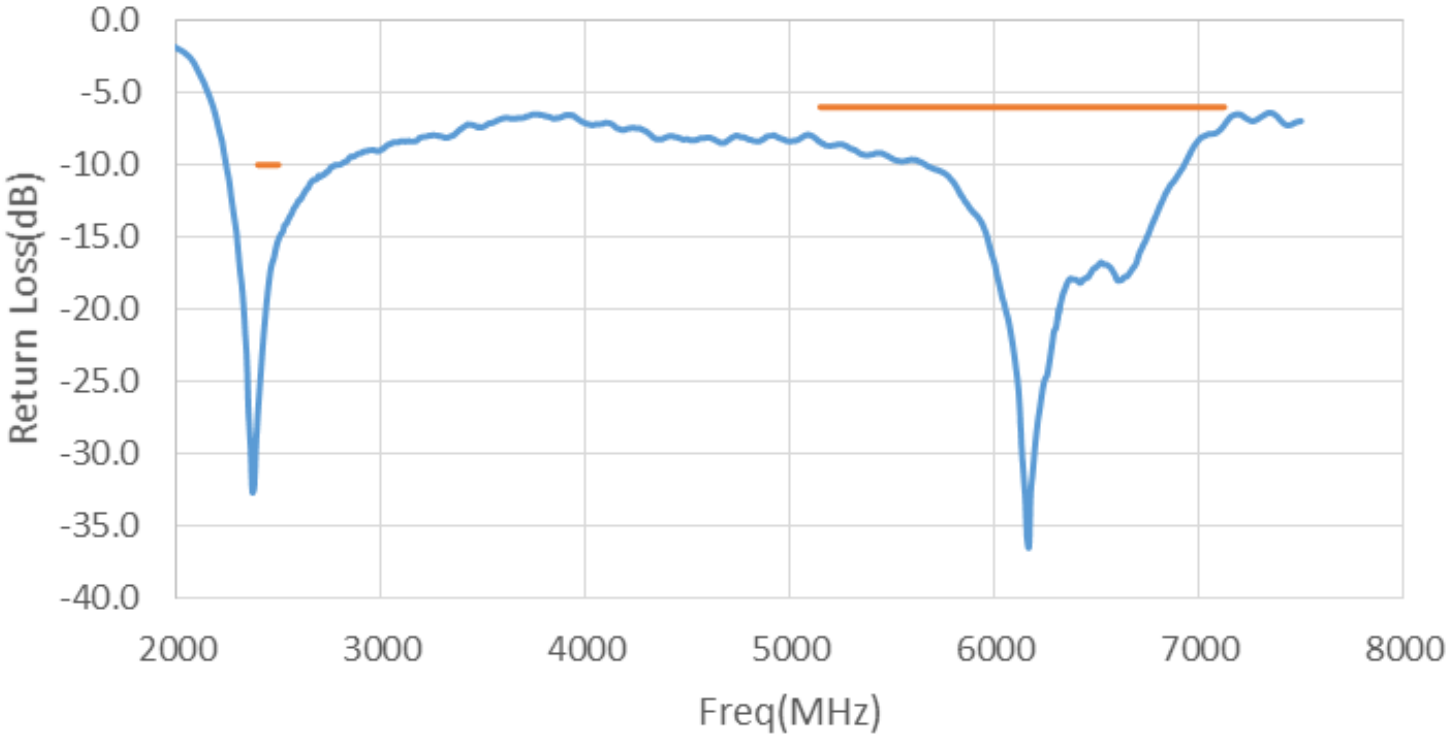
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CHARTS

Return Loss



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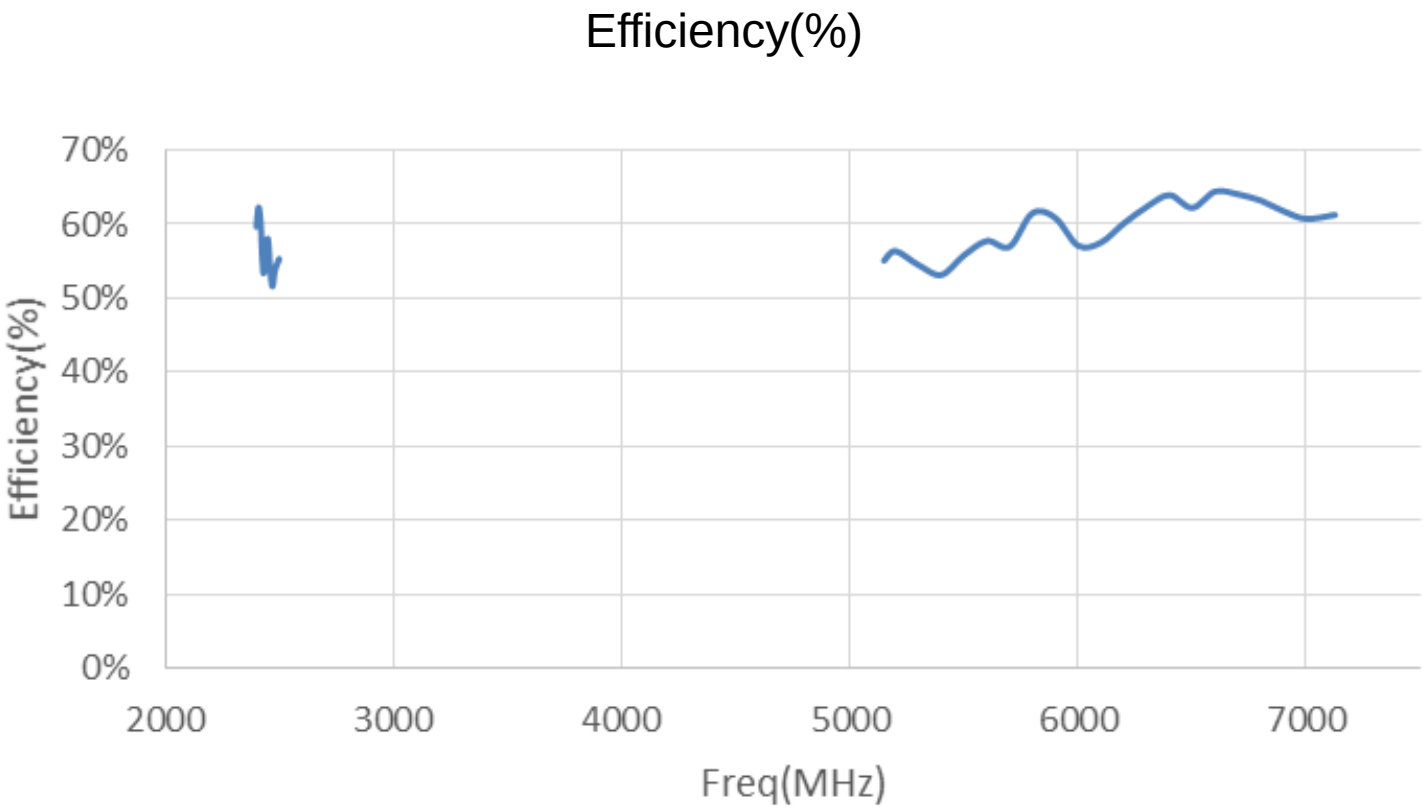
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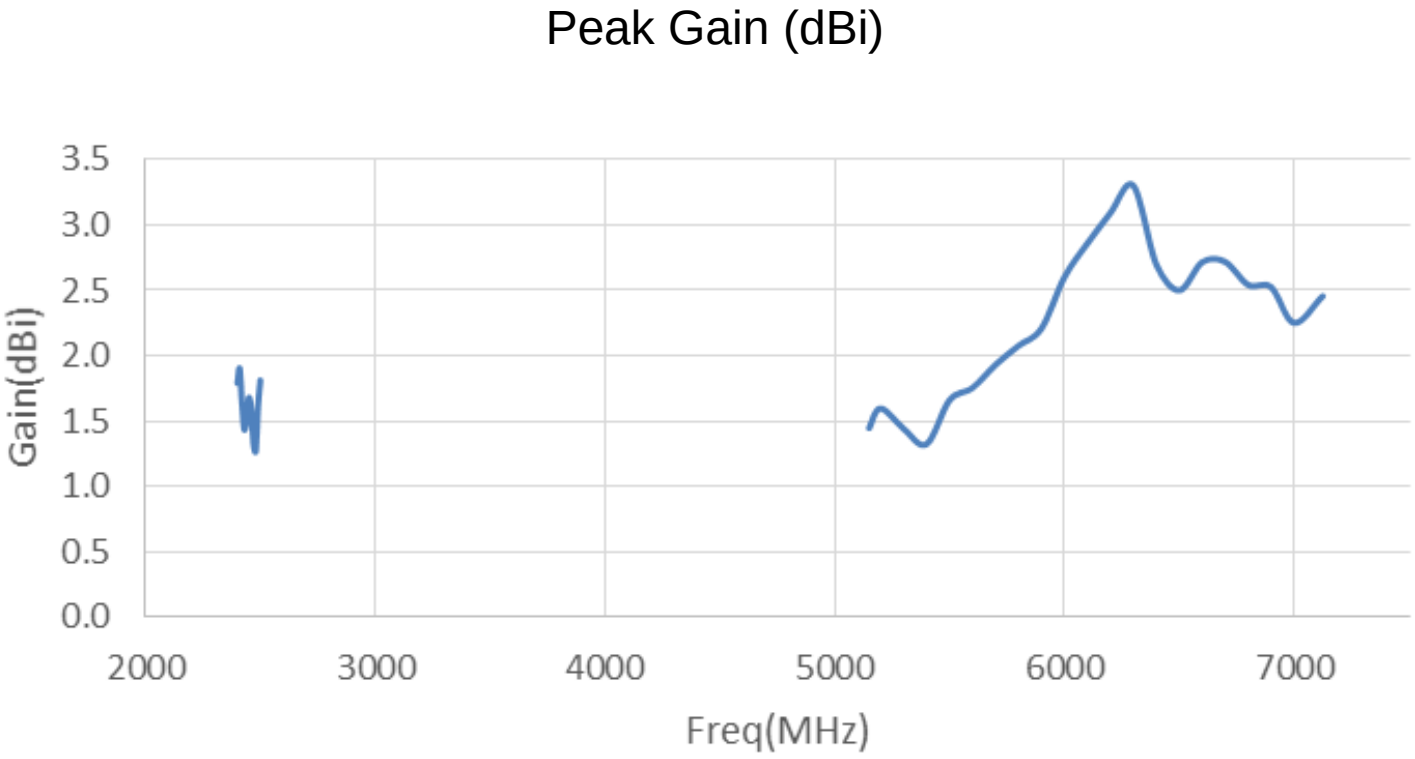
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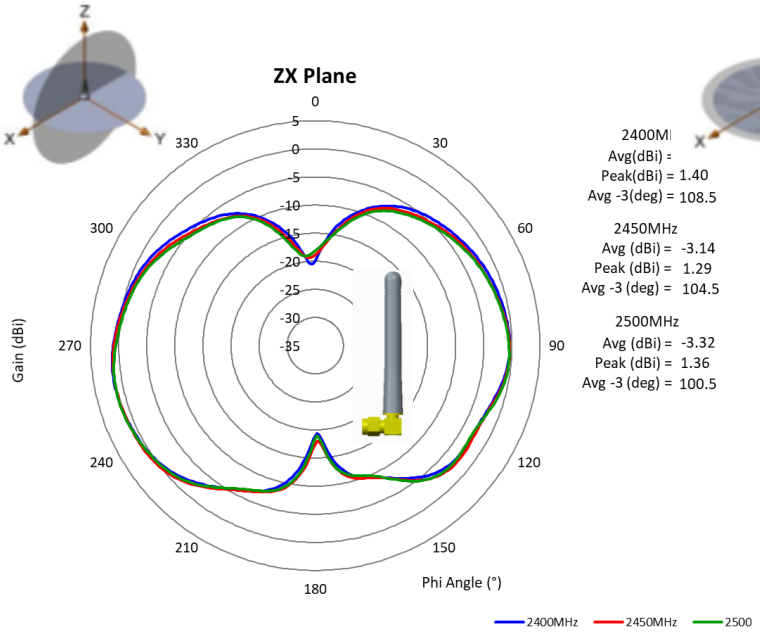
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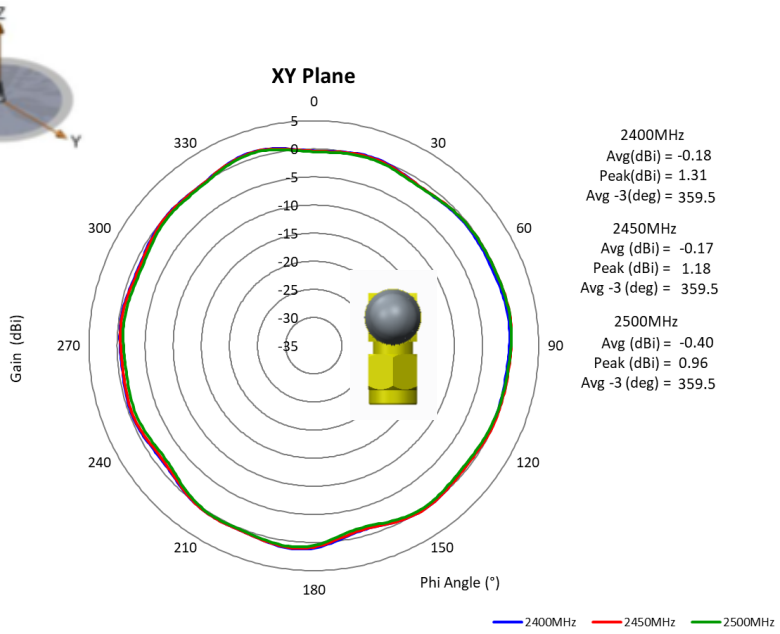
CHARTS

Free Space Radiation Pattern

Elevation Plane



Horizontal Plane



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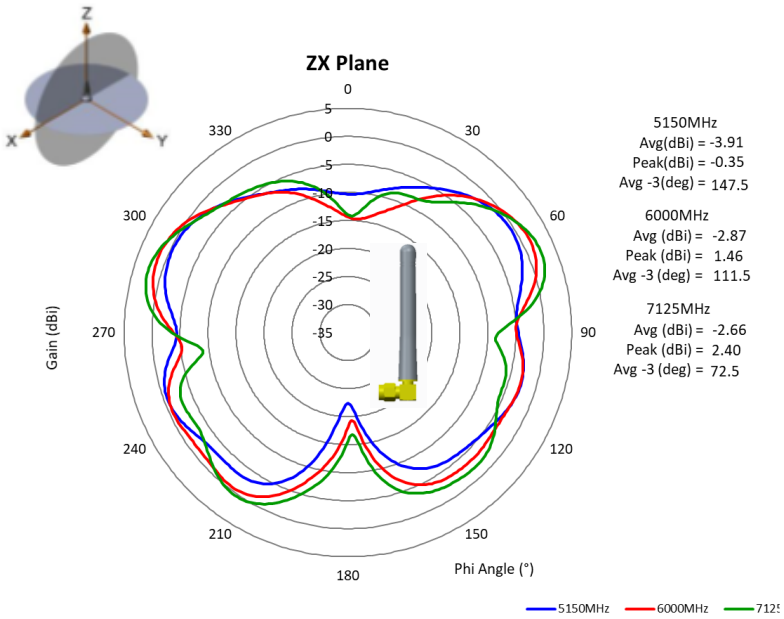
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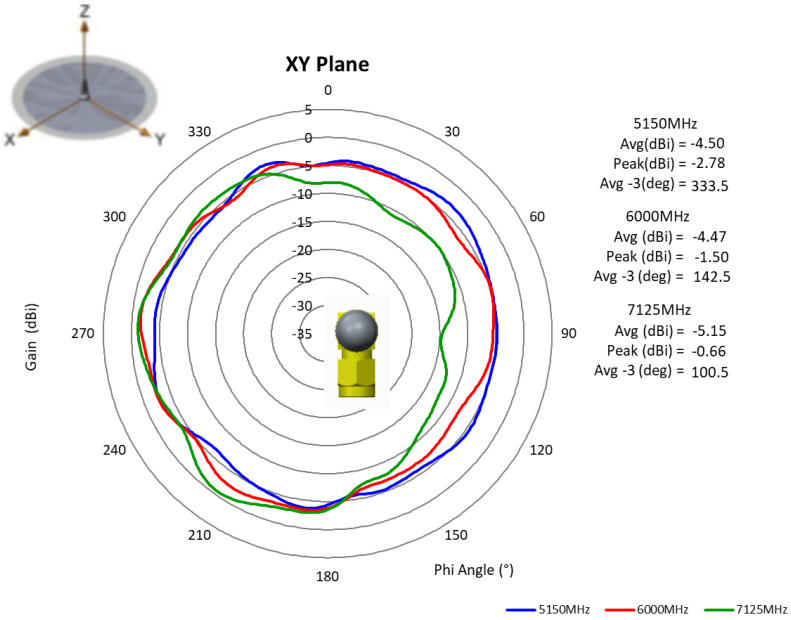
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PACKAGING

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

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