

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

Series: External Antenna

PART NUMBER: W5029X



W5029

W5029RASM

W5029RPG

W5029RPGT

**Features:**

- WiFi-6E Dual-Band
- DSRC
- Multi band 2.4-2.5/5.15-7.125GHz
- IP65
- P/N: W5029  
R/A RP SMA Male, length 78mm
- P/N: W5029RPG/W5029RPGT  
RP SMA Male. length 76mm
- P/N: W5029RASM  
R/A SMA Male, length 76.5mm

**Applications:**

- Zigbee, BLE/BT, WLAN (2.4GHz, 5-7GHz)
- 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.

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**This document covers all product variants of the following product family**

Antennas	Length	Connector
W5029	78mm	Right Angle RP SMA male (Au plating)
W5029RASM	76.5mm	Right Angle SMA male (Au plating)
W5029RPG	76mm	Straight RP SMA Male (Au plating)
W5029RPGT	76mm	Straight RP SMA Male (Ni plating)

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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 <-4dB
Peak Gain	2.4-2.5GHz 1.8dBi +/-0.4 dB 5.15-7.125GHz 2.55dBi +/-2dB
	Radiation Pattern Omni in Horizontal plane
Polarization:	Vertical
Power withstanding	1W

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**MECHANICAL SPECIFICATIONS**

Plastic radome		TPEE
Color		Black
Weight		
	W5029	11.36 g
	W5029RASM	11.36 g
	W5029RPG	7.82 g
	W5029RPGT	7.82 g
Overall Length		
	W5029	78 mm
	W5029RASM	76.5mm
	W5029RPG	76 mm
	W5029RPGT	76 mm
IP Rate		IP65

**ENVIRONMENTAL SPECIFICATIONS**

Operating temperature	-35/+65° C
Storage Temperature	-30/+75° C

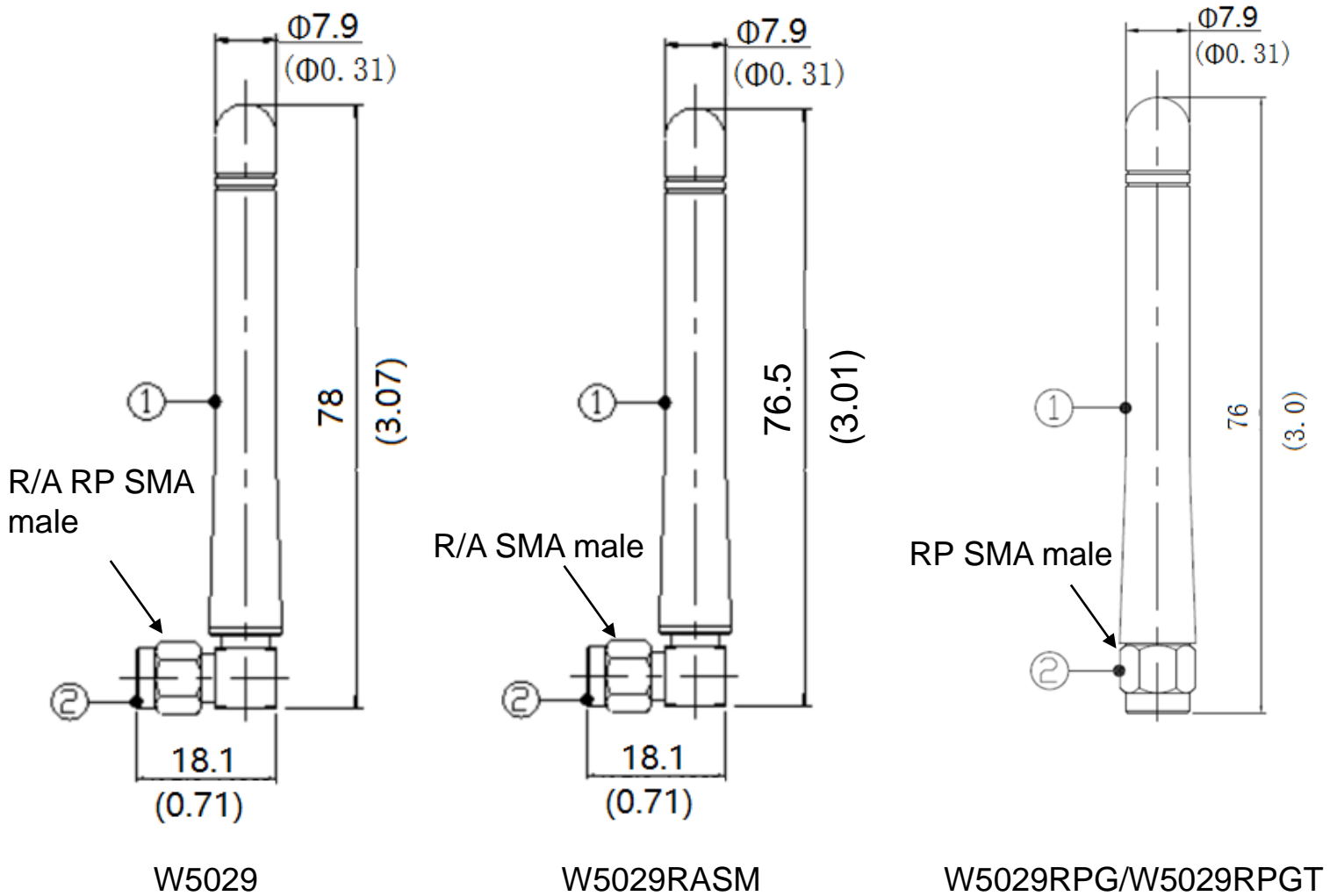
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MECHANICAL DRAWING



- 1, Dimension show as mm (inch)
- 2, Item 1 is tube, and item 2 is connector

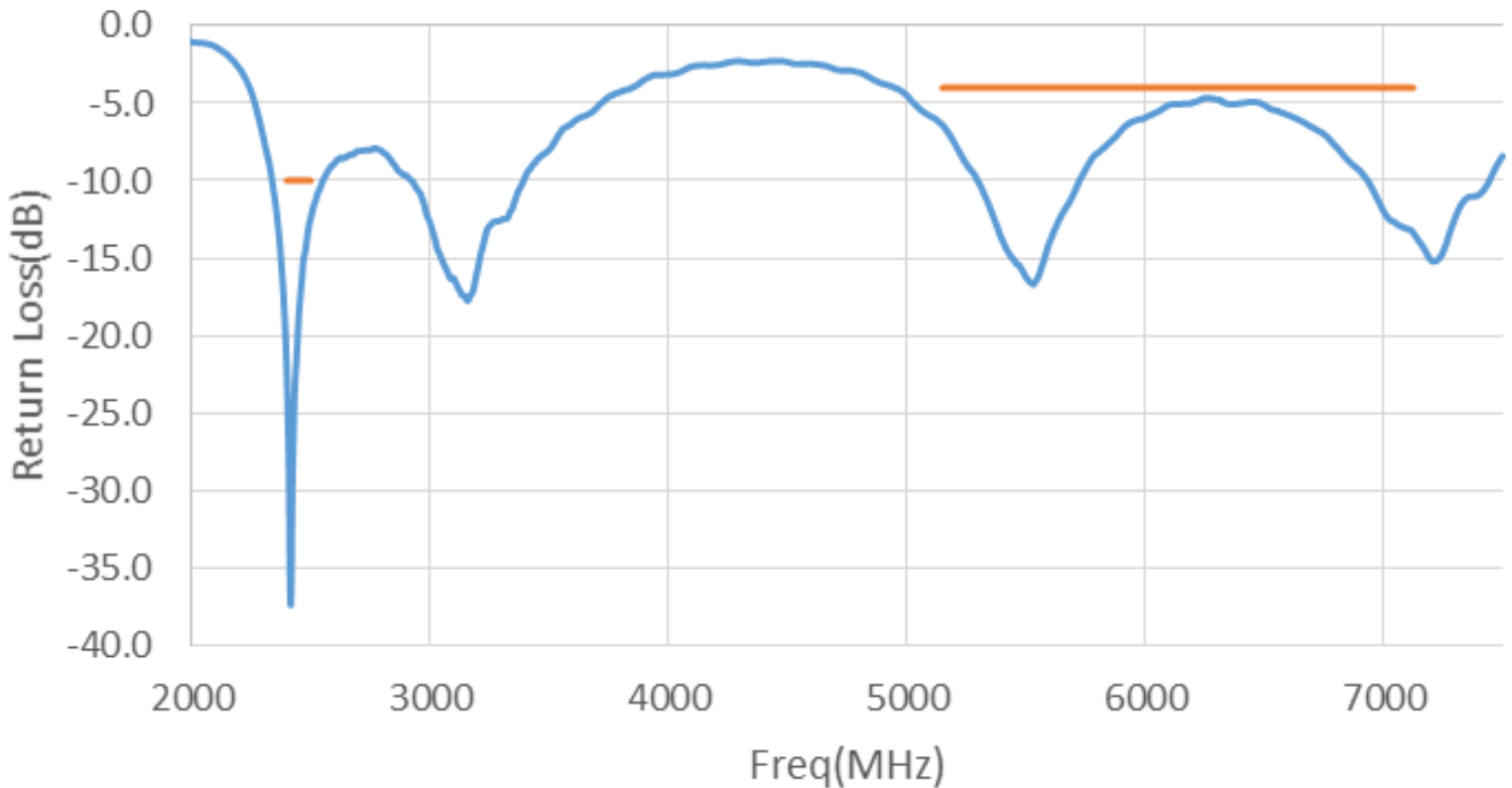
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## CHARTS

### Return Loss



**(\*) All RF parameters measured with free space**

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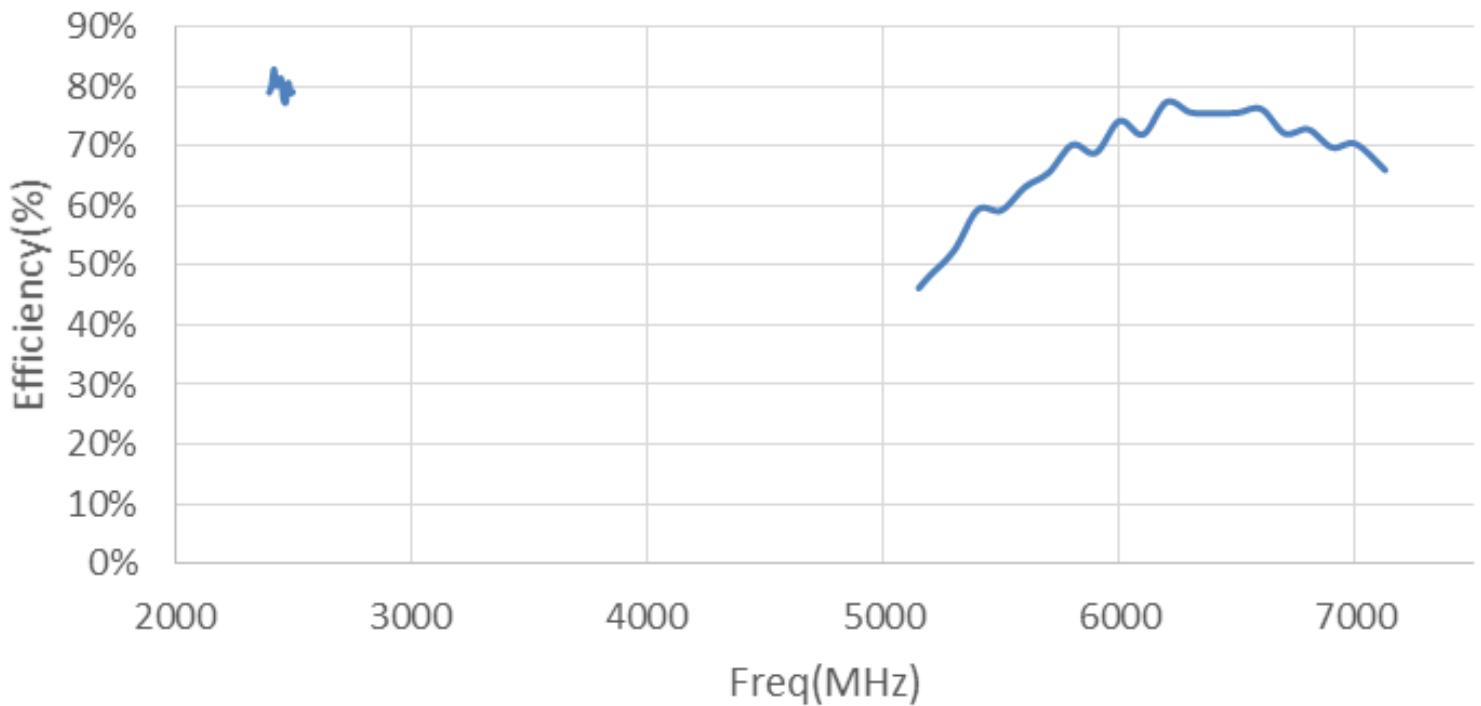
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## CHARTS

## Efficiency(%)



***(\*) All RF parameters measured with free space***

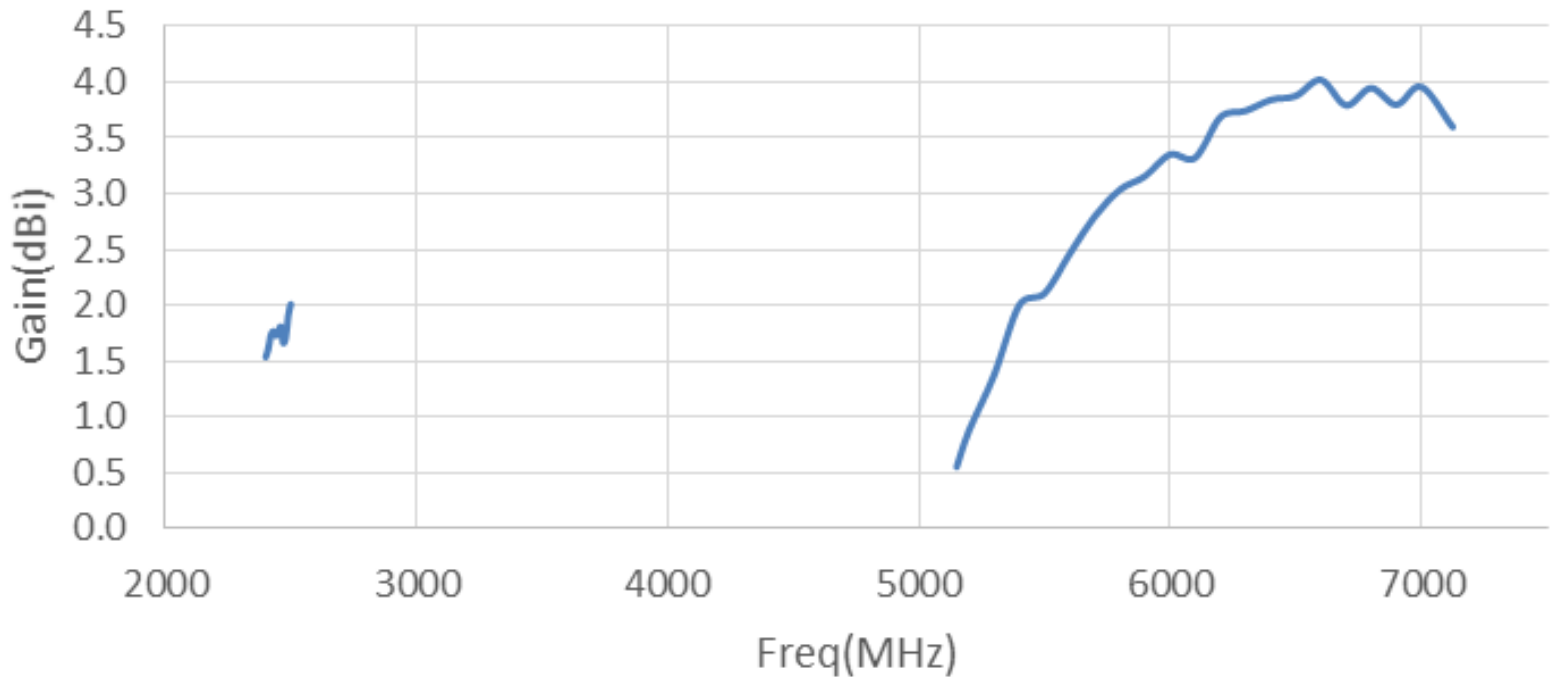
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## CHARTS

### Peak Gain (dBi)



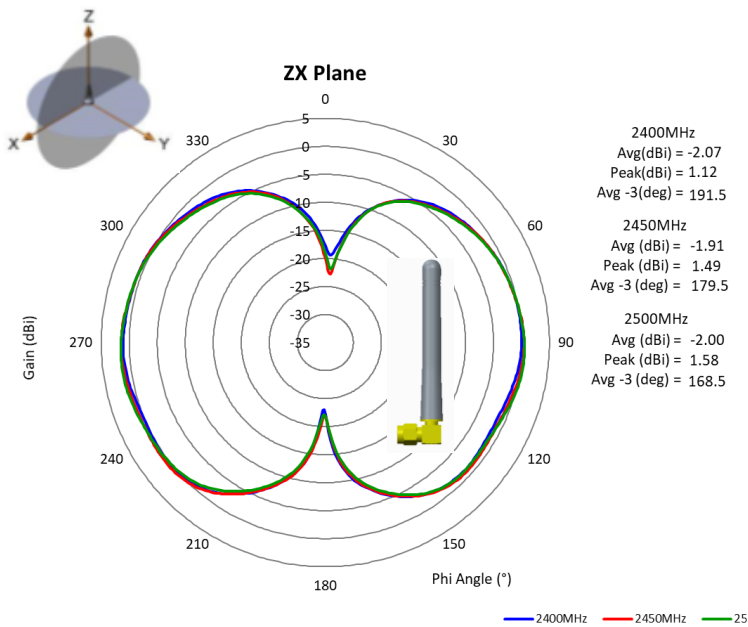
***(\*) All RF parameters measured with free space***



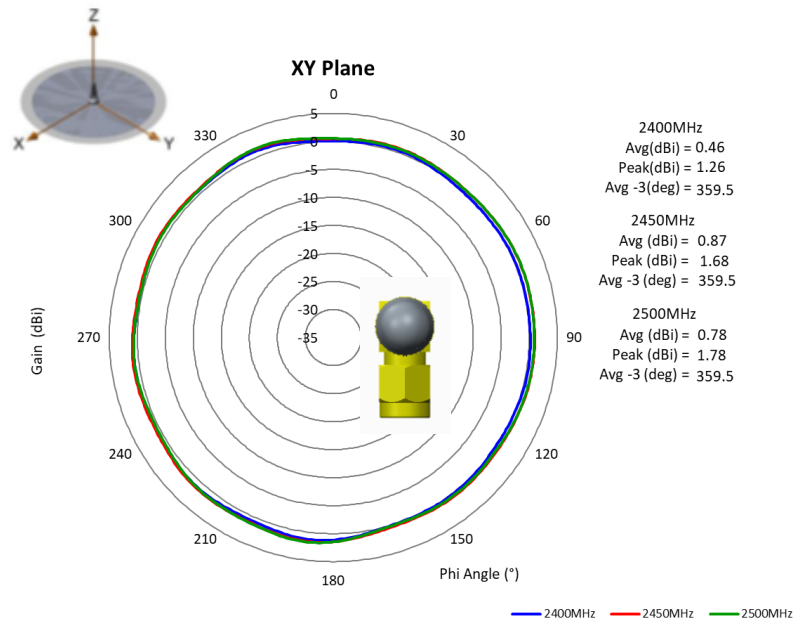
## CHARTS

### Free Space Radiation Pattern

#### Elevation Plane



#### Horizontal Plane

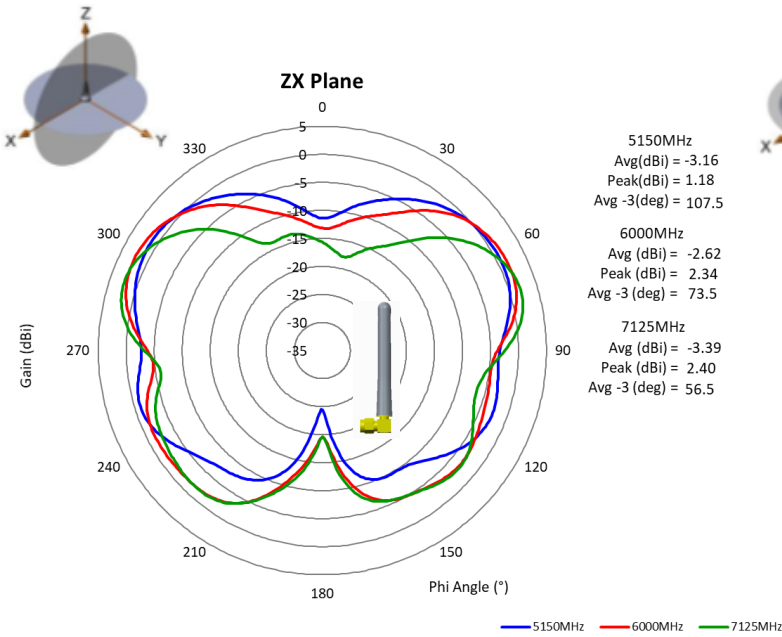


**(\* ) All RF parameters measured with free space**

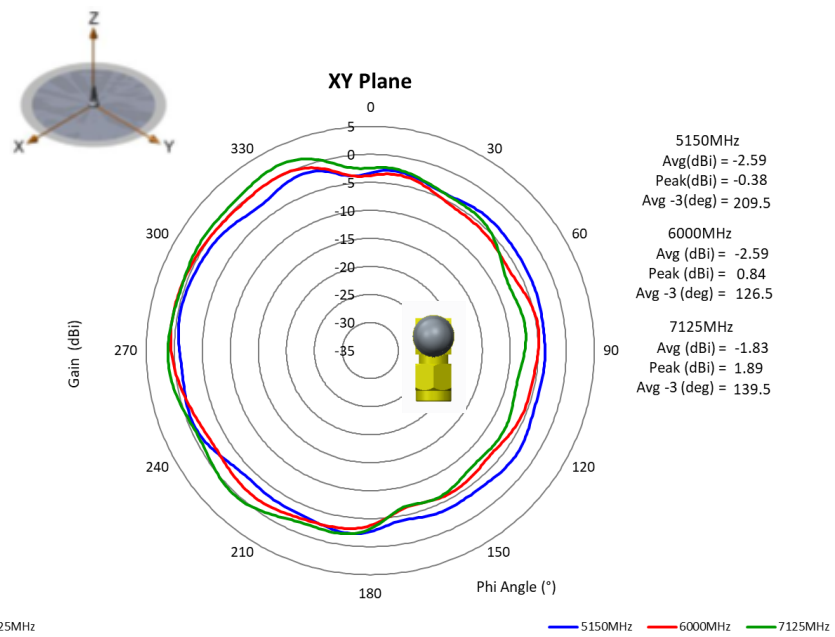
## CHARTS

### Free Space Radiation Pattern

#### Elevation Plane



#### Horizontal Plane



**(\* All RF parameters measured with free space**

**Description: 2.4-2.5 / 5.15-7.125 GHz Stick Antenna****Series: External Antenna****PART NUMBER: W5029X****PACKAGING**

20PCS/Bullet PE bag

30 Bullet PE bag/ Carton box

Total 600PCS antenna/ Carton box

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