

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: 2234

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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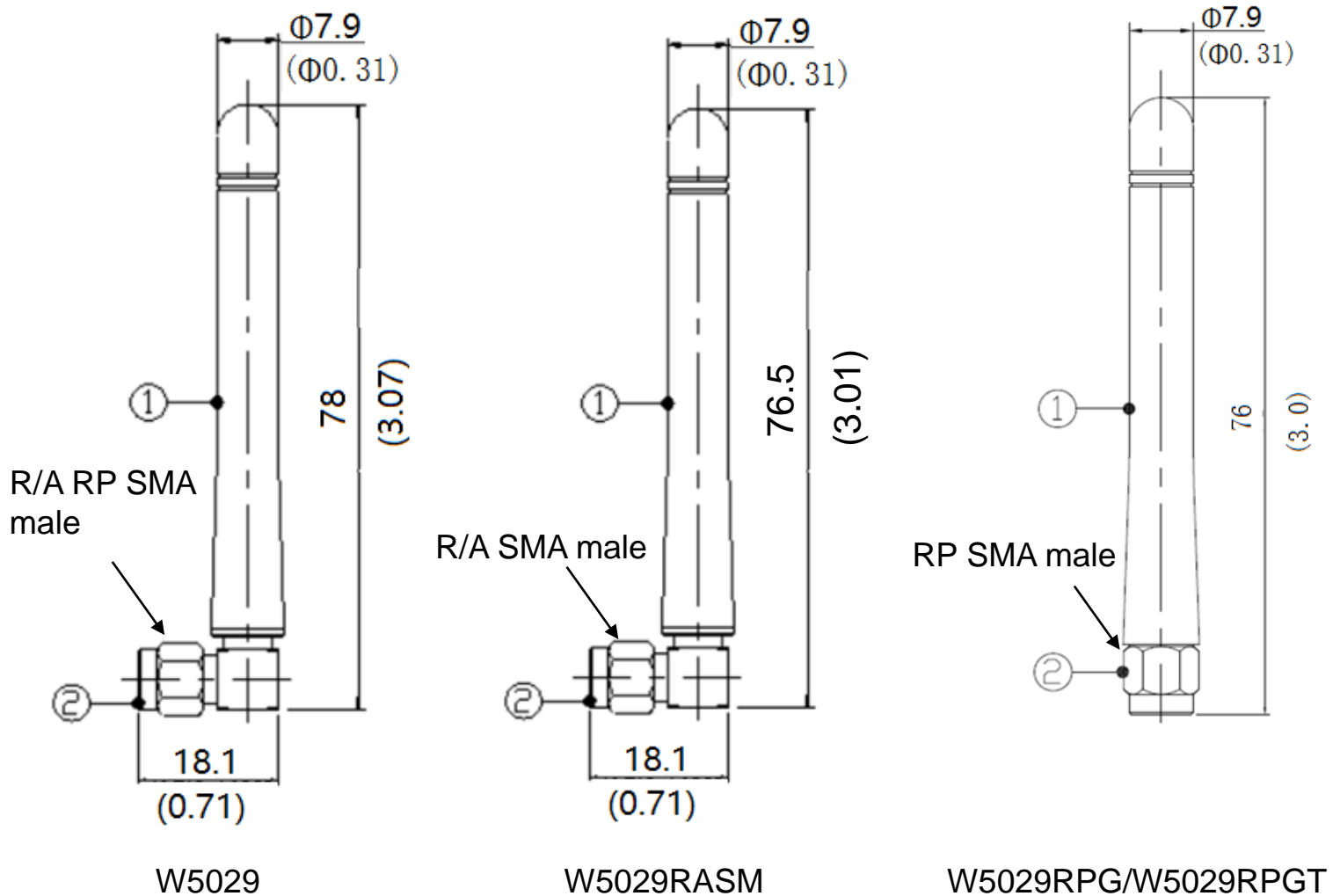
**MECHANICAL SPECIFICATIONS**

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	-40/+85° C
Storage Temperature	-40/+85° C

## MECHANICAL DRAWING



1, Dimension show as mm (inch)

2, Item 1 is tube, and item 2 is connector

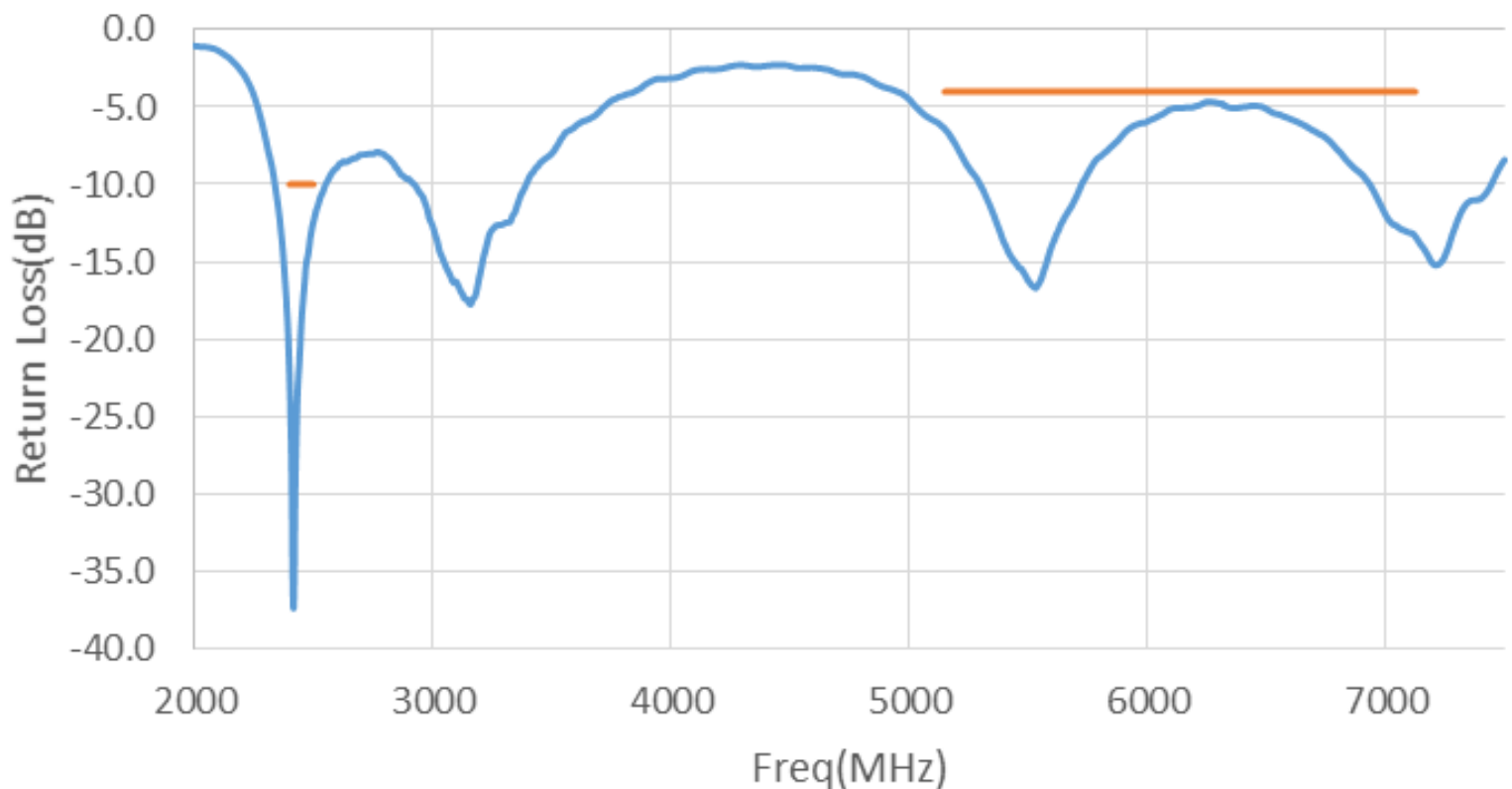
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## CHARTS

## Return Loss

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

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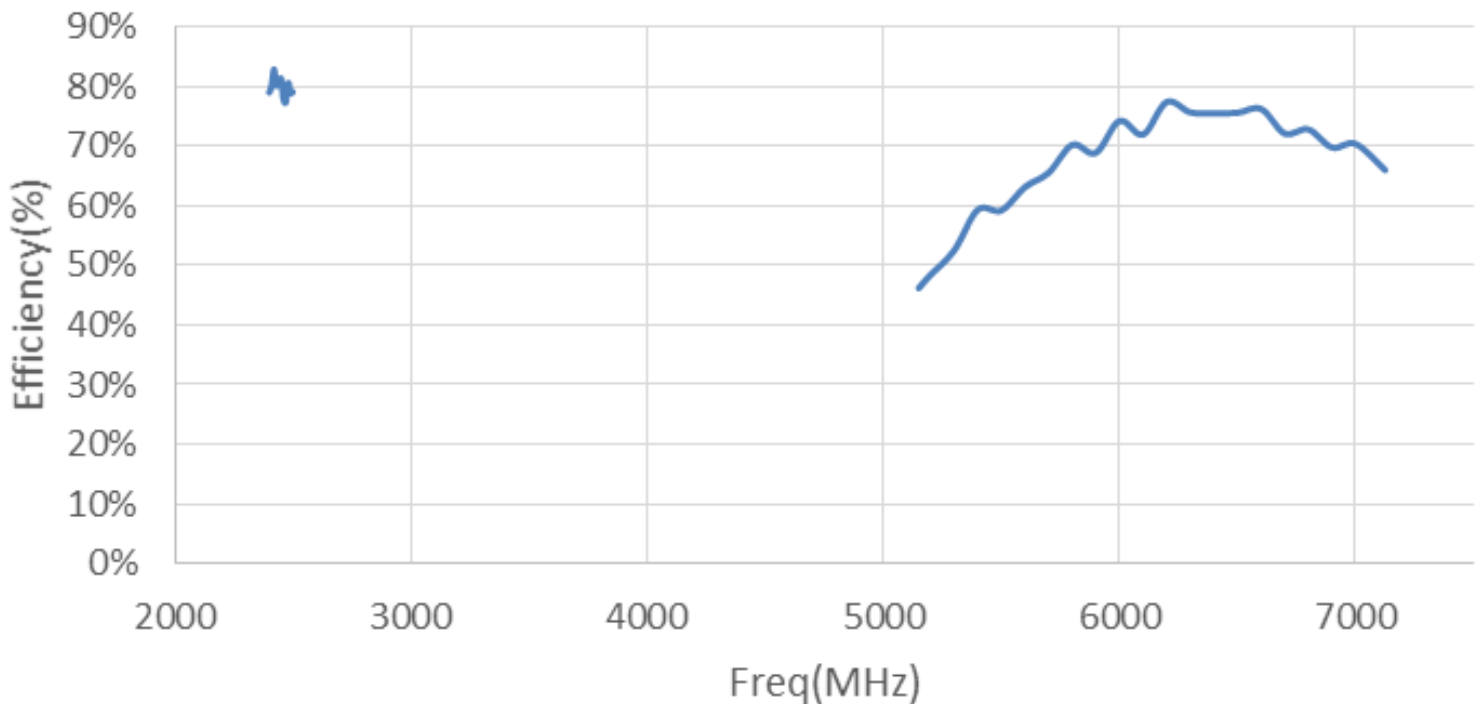
Description: 2.4-2.5 / 5.15-7.125 GHz Stick Antenna

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## CHARTS

## Efficiency(%)

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

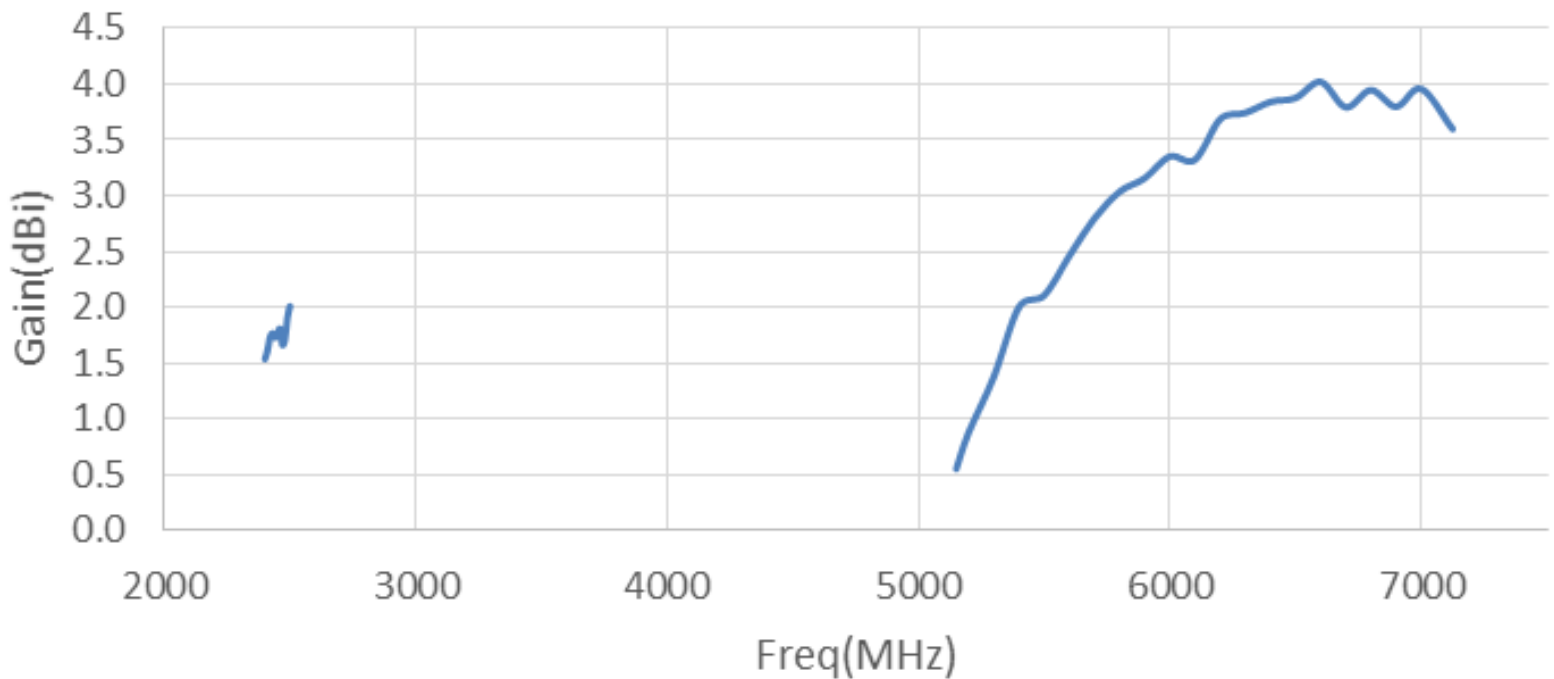
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## CHARTS

### Peak Gain (dBi)



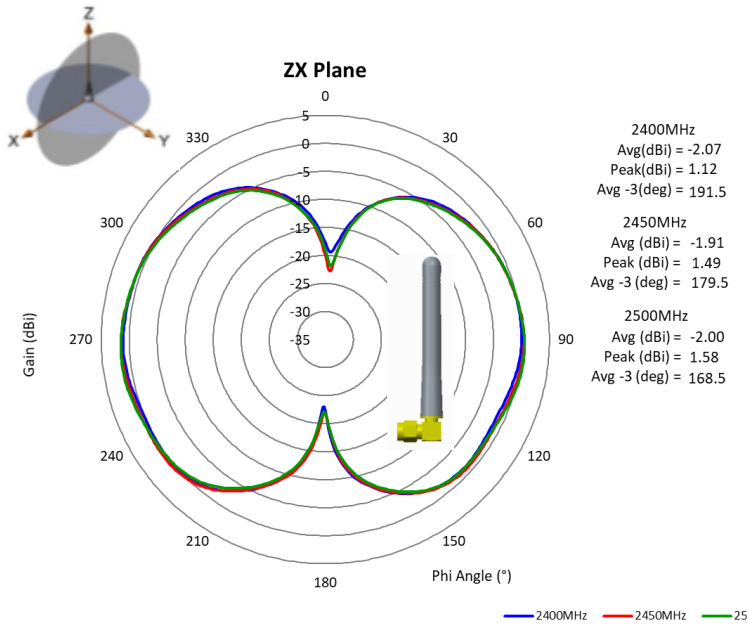
***(\*) All RF parameters measured with free space***



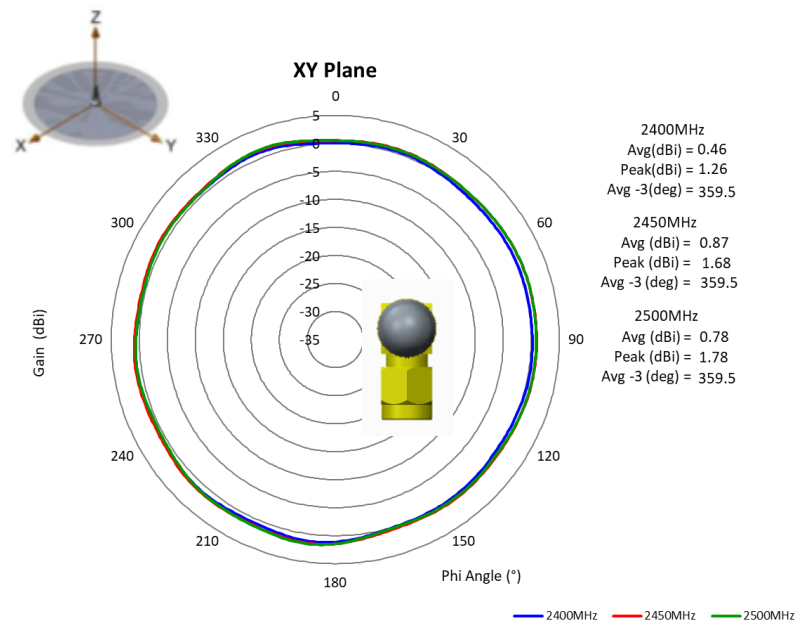
## CHARTS

### Free Space Radiation Pattern

#### Elevation Plane



#### Horizontal Plane



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

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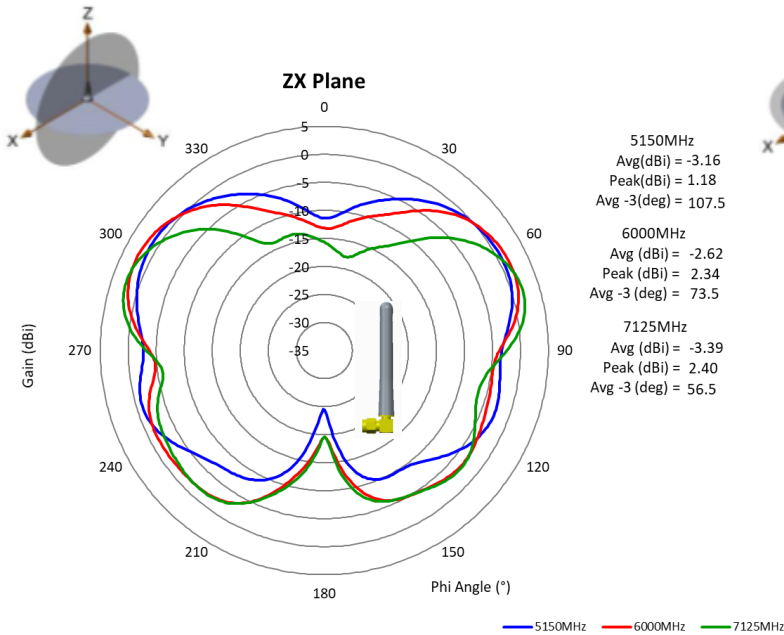
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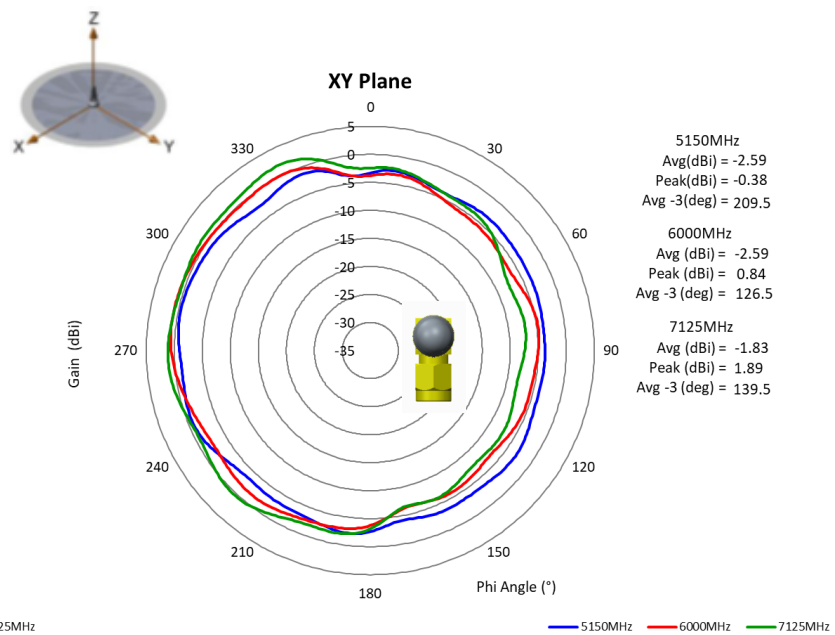
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### Free Space Radiation Pattern

#### Elevation Plane



#### Horizontal Plane



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

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**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

# Mouser Electronics

Authorized Distributor

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[W5029](#) [W5029RPGT](#) [W5029RPG](#)