

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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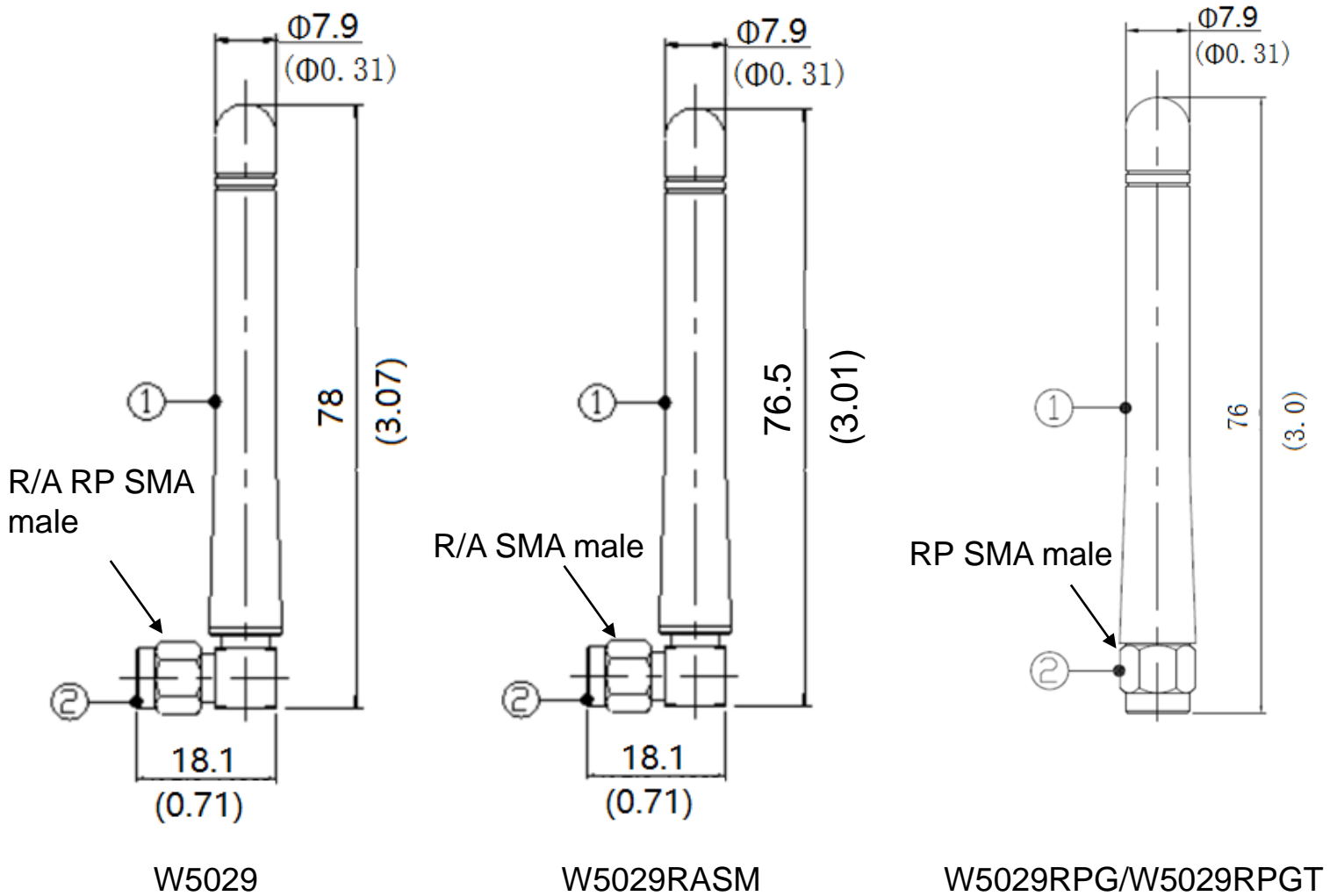
MECHANICAL SPECIFICATIONS

| | | |
|----------------|-----------|---------|
| 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 |

MECHANICAL DRAWING



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

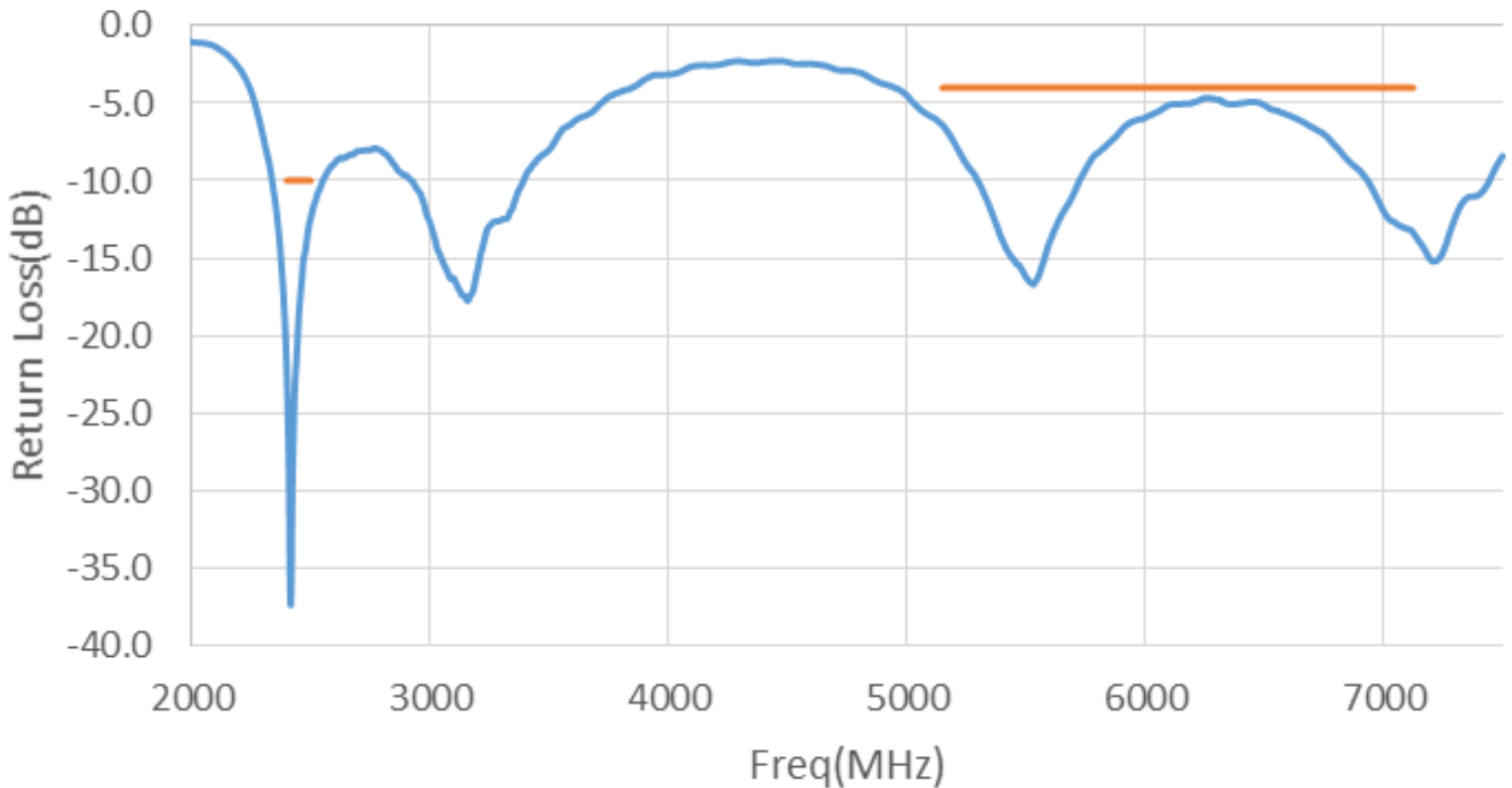
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CHARTS

Return Loss



(*) All RF parameters measured with free space

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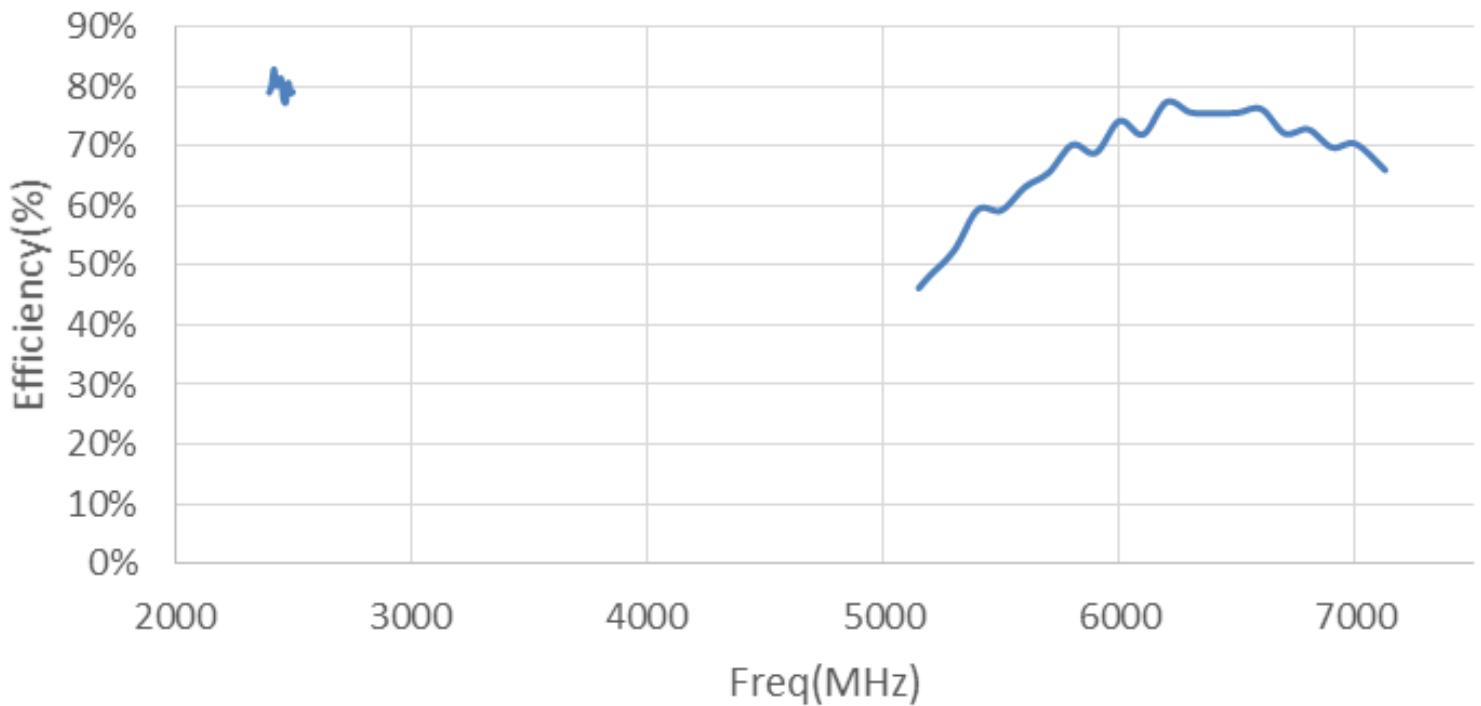
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CHARTS

Efficiency(%)



(*) All RF parameters measured with free space

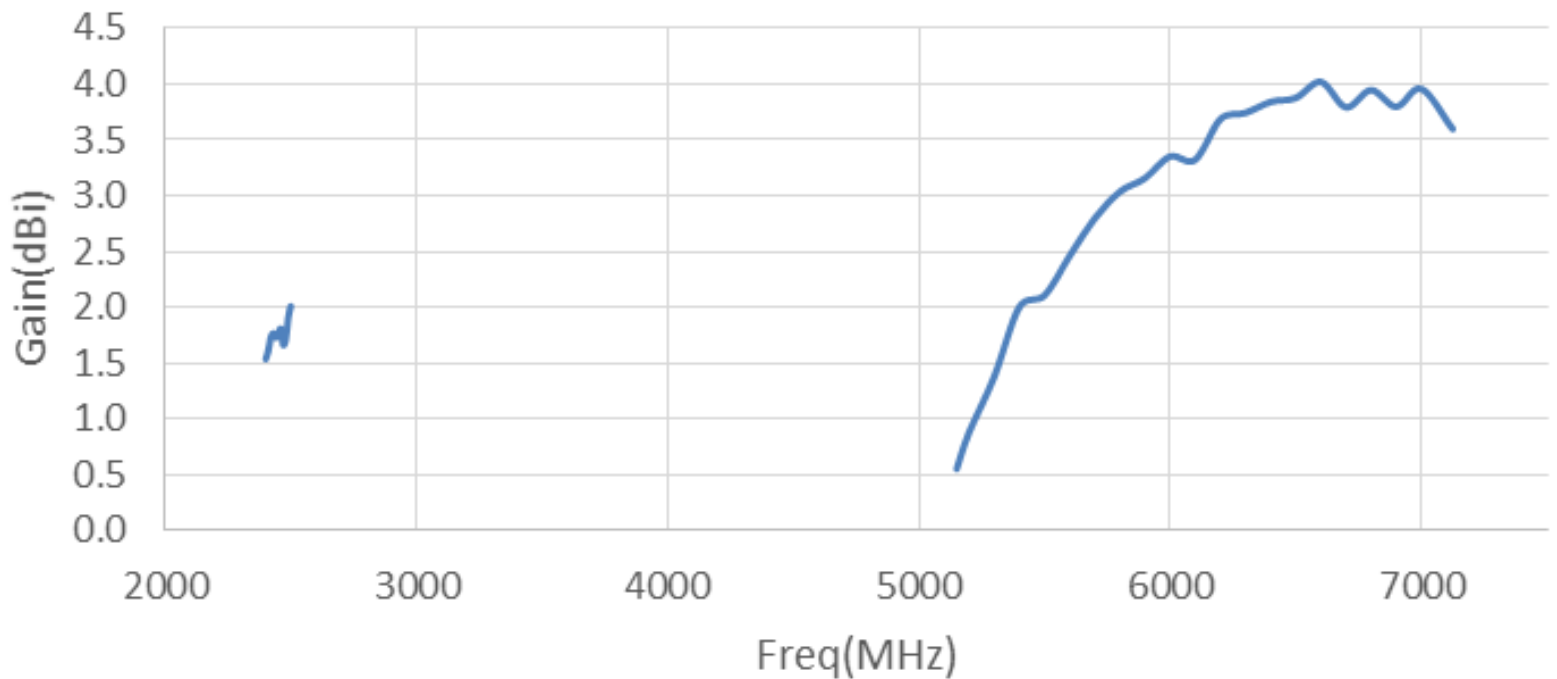
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CHARTS

Peak Gain (dBi)

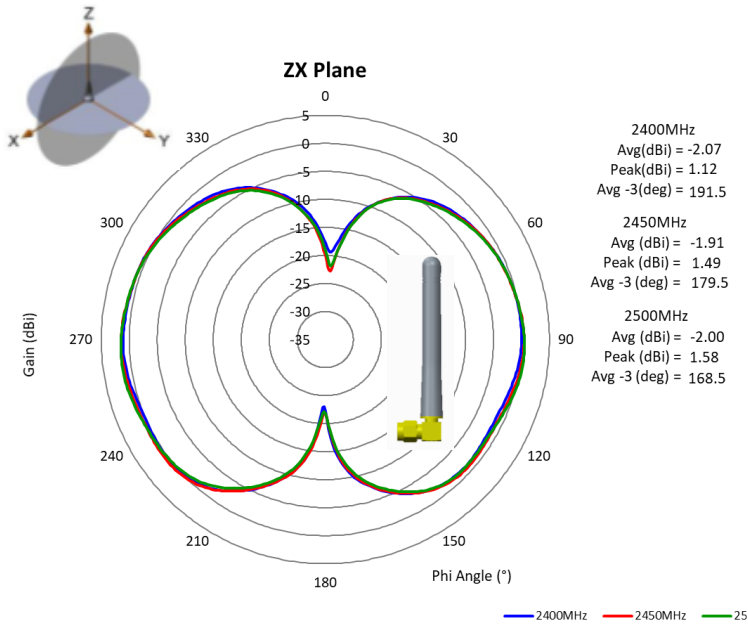


(*) All RF parameters measured with free space

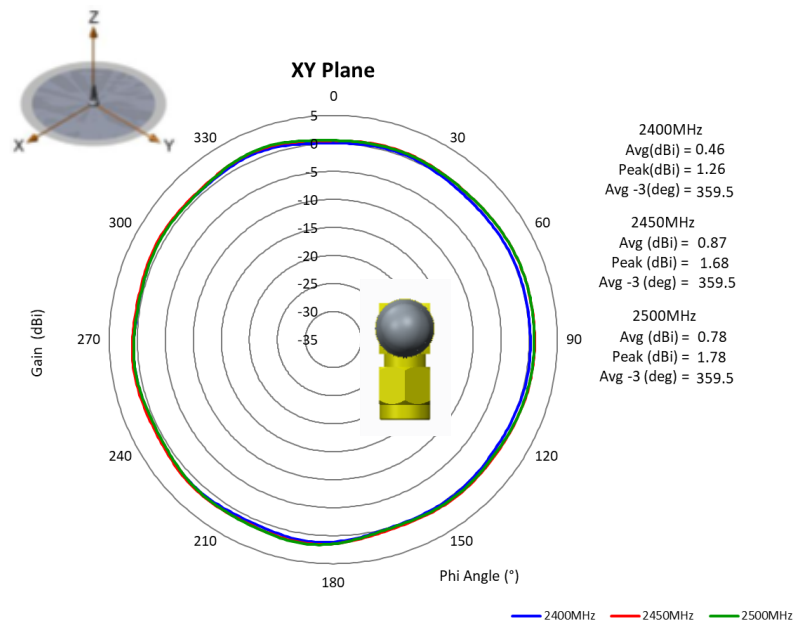
CHARTS

Free Space Radiation Pattern

Elevation Plane



Horizontal Plane

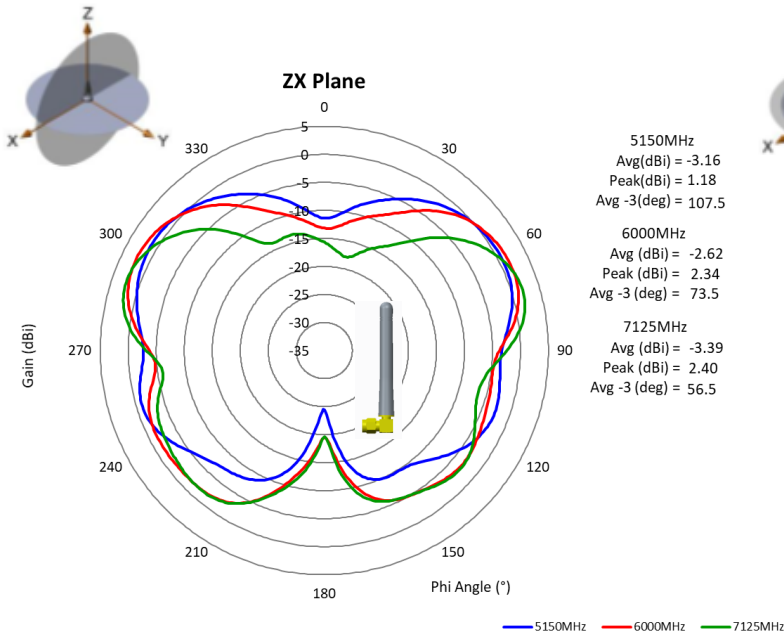


(*) All RF parameters measured with free space

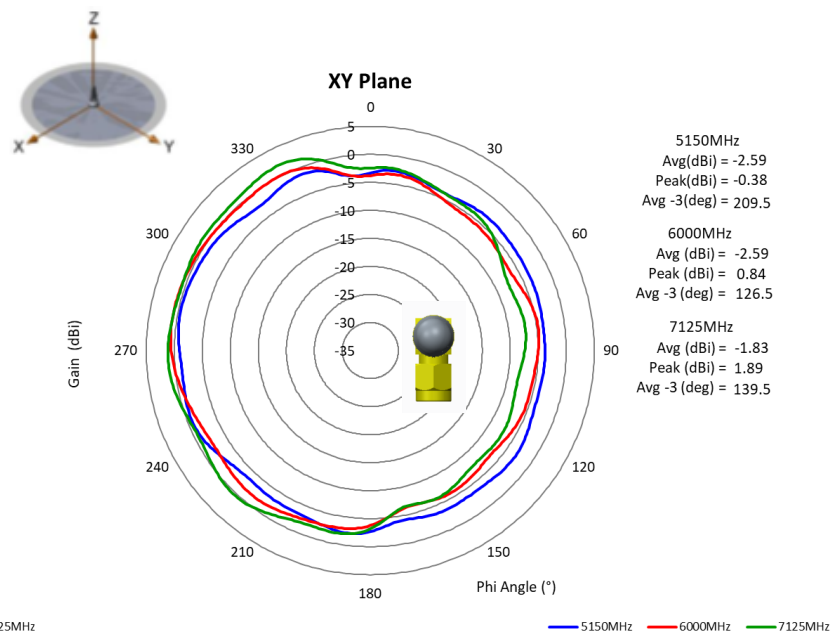
CHARTS

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