

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

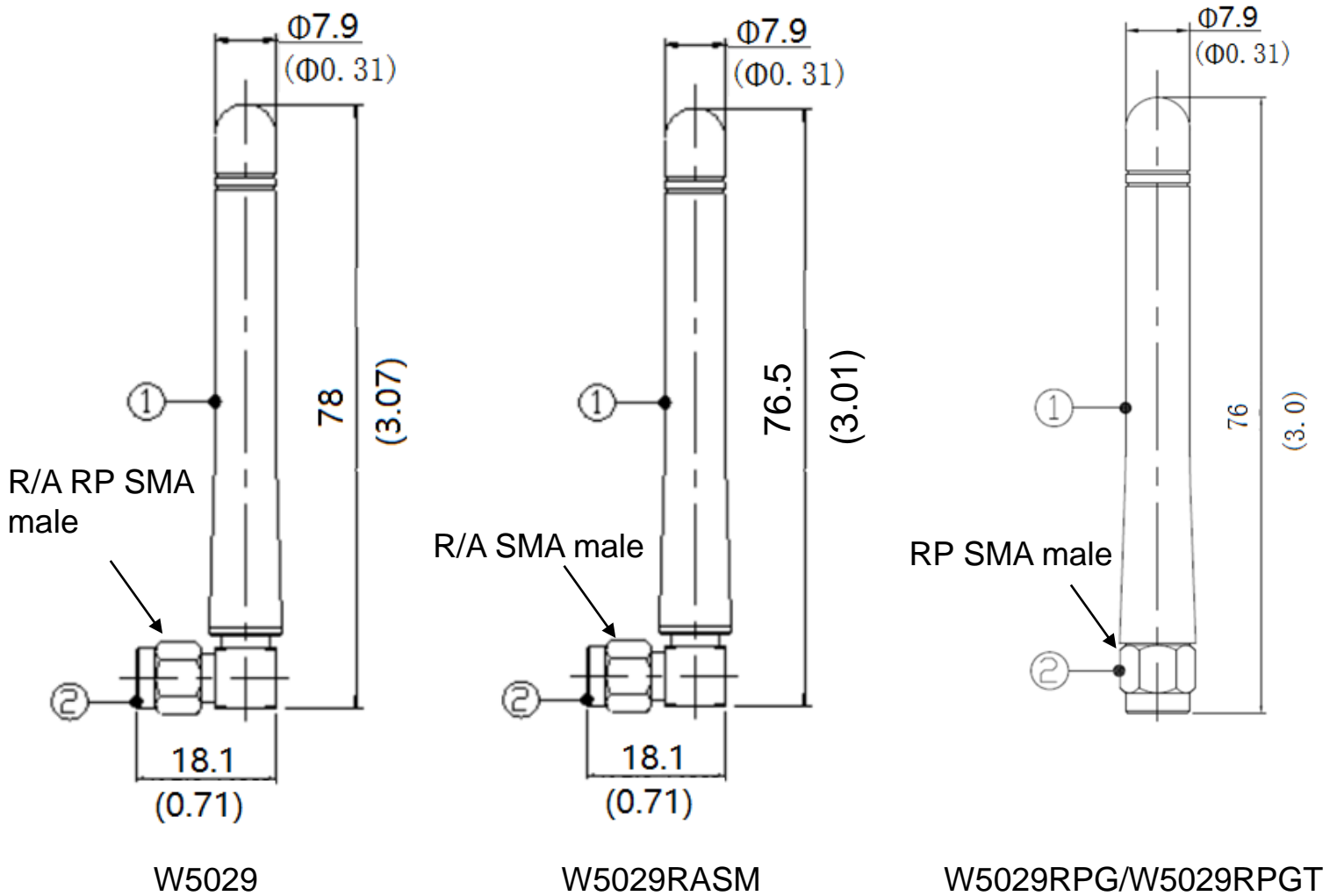
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MECHANICAL DRAWING



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

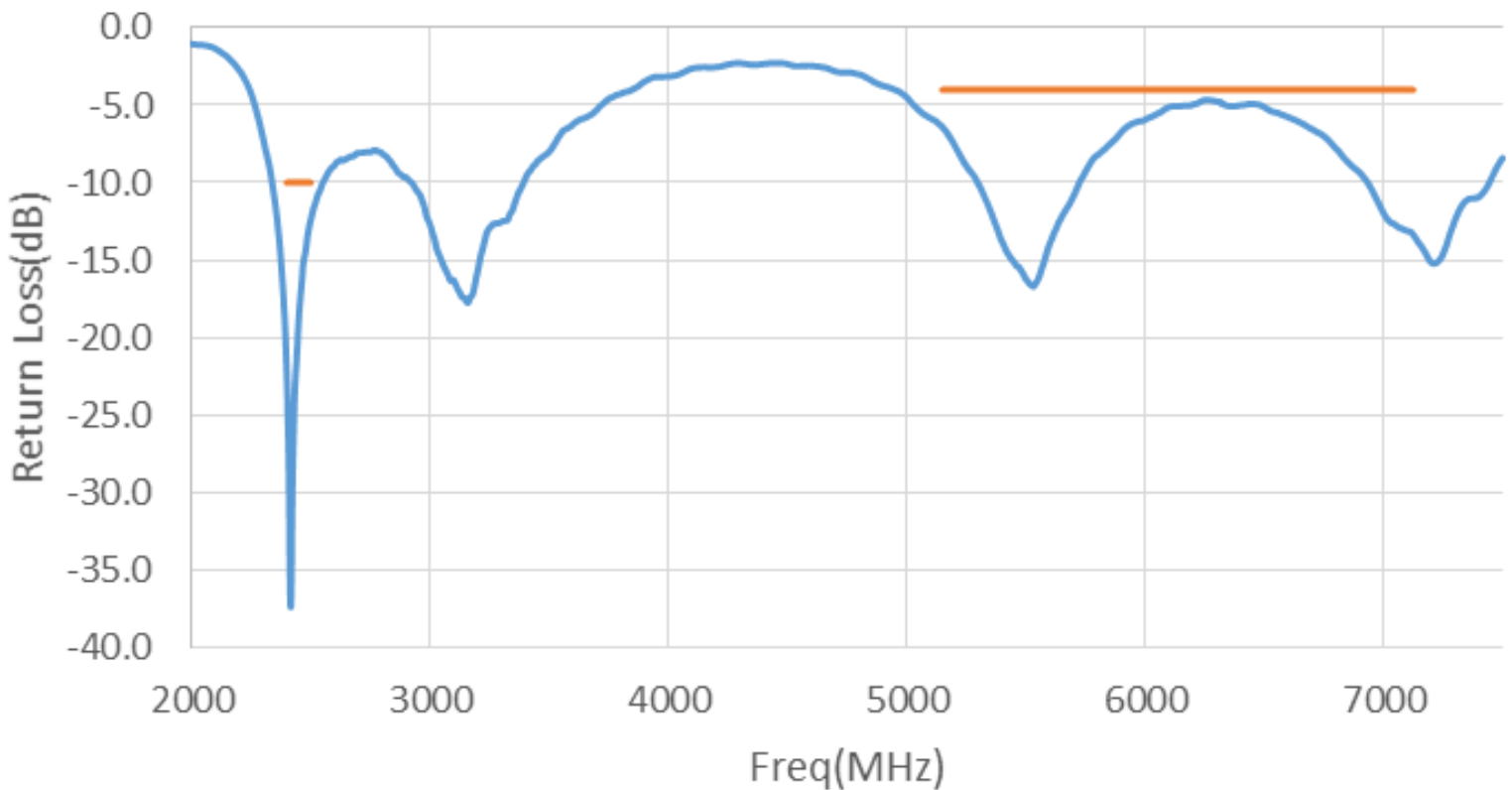
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CHARTS

Return Loss



(*) All RF parameters measured with free space

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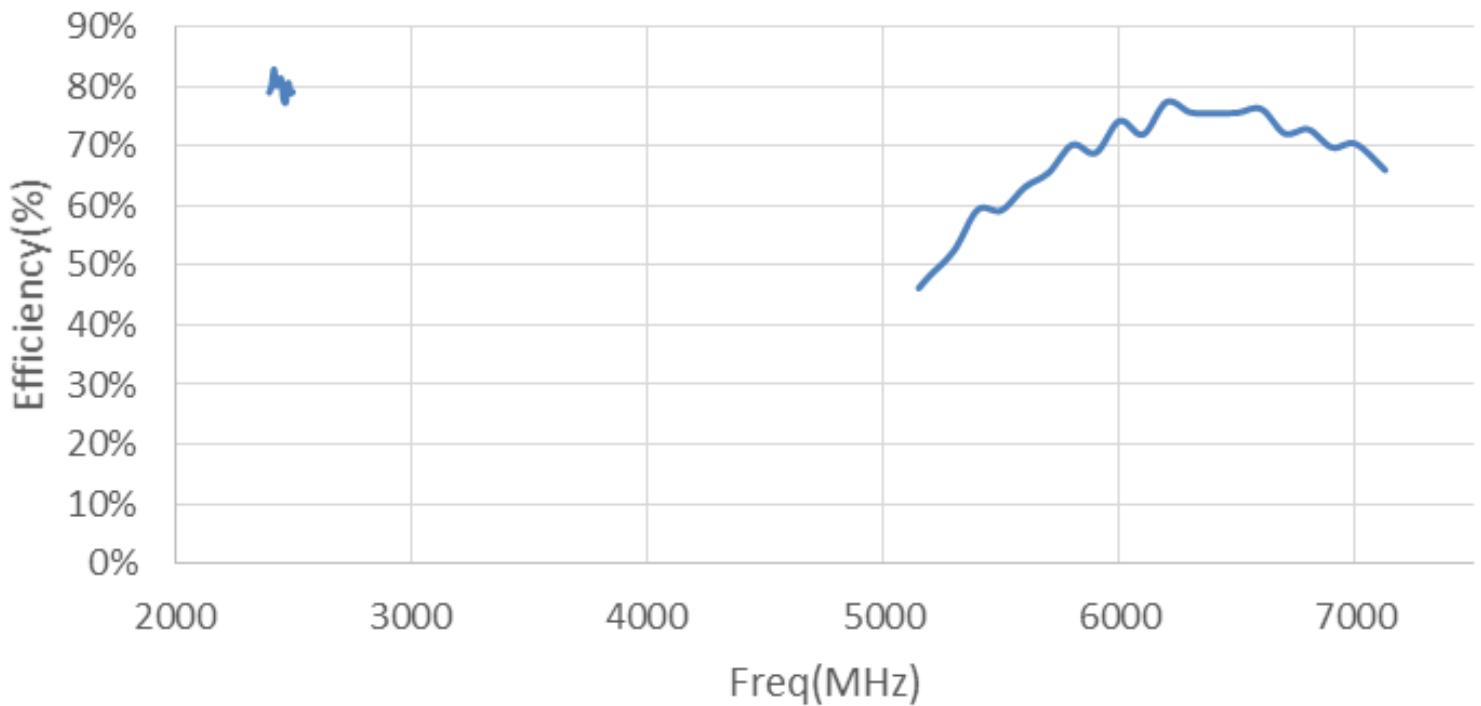
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CHARTS

Efficiency(%)



(*) All RF parameters measured with free space

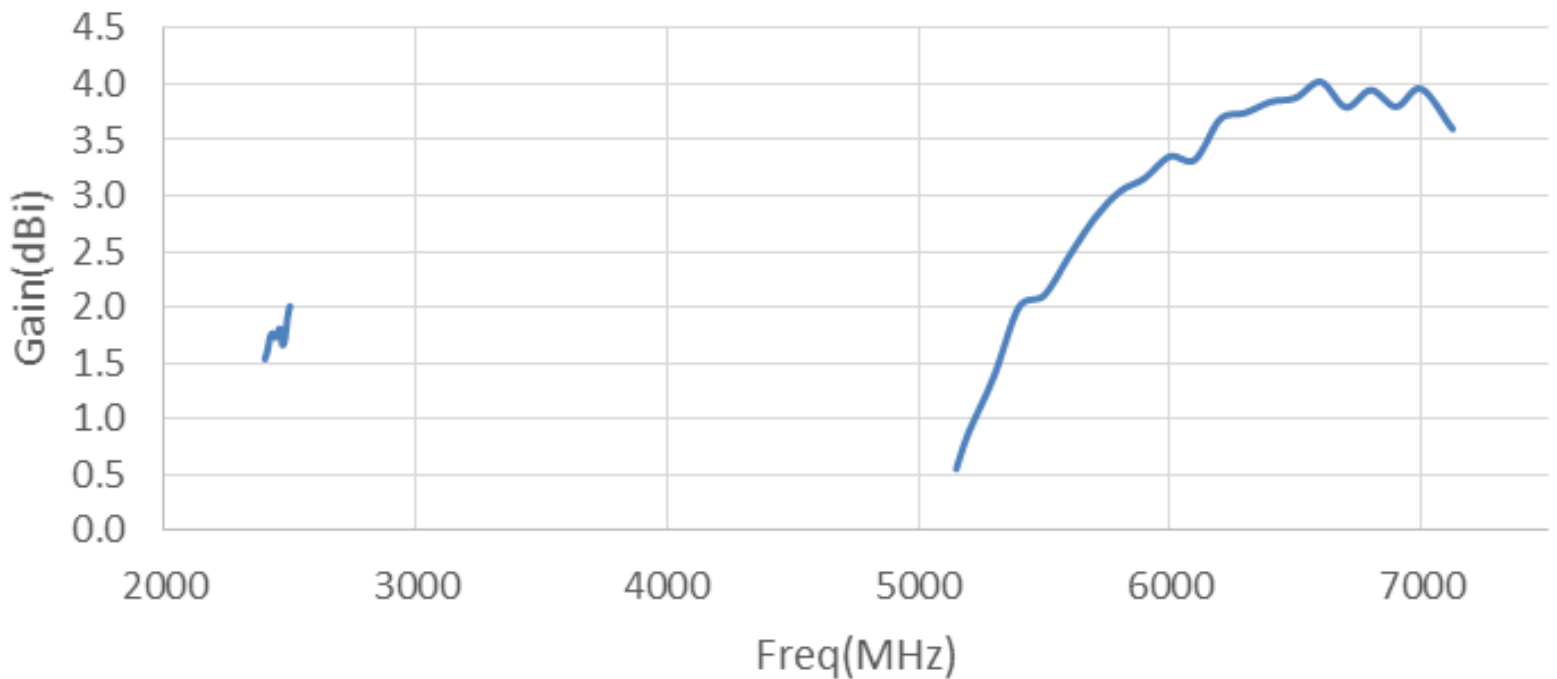
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CHARTS

Peak Gain (dBi)

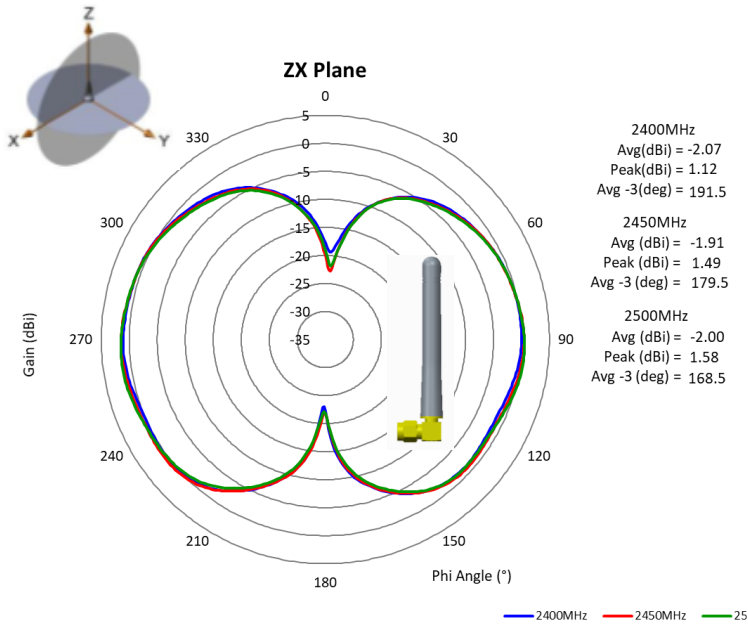


(* All RF parameters measured with free space

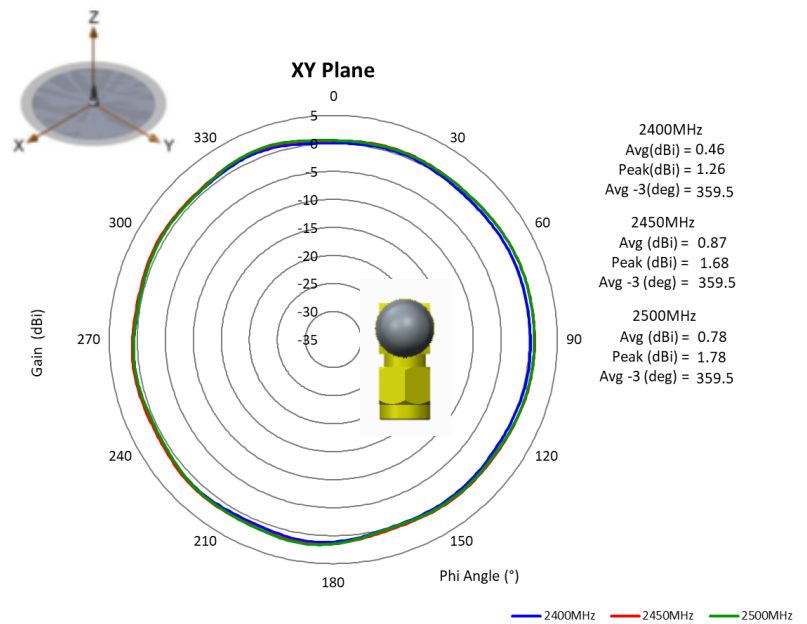
CHARTS

Free Space Radiation Pattern

Elevation Plane



Horizontal Plane

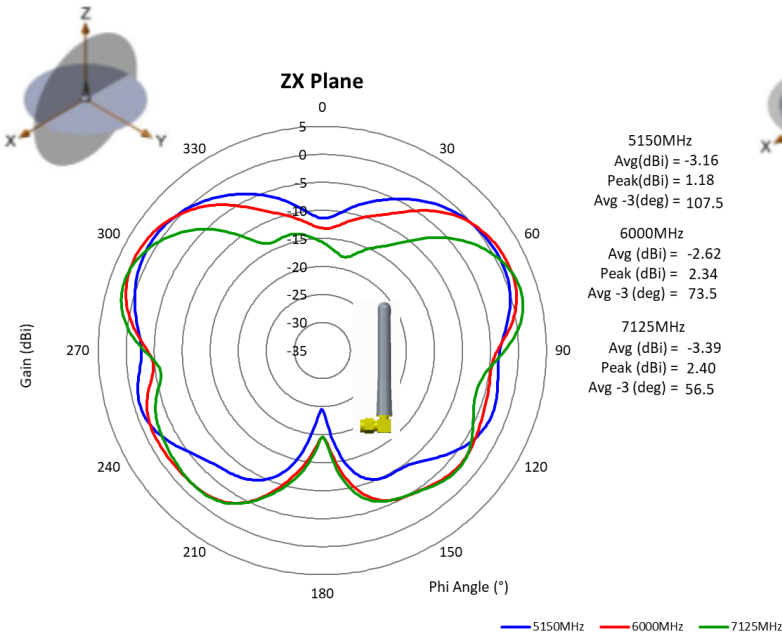


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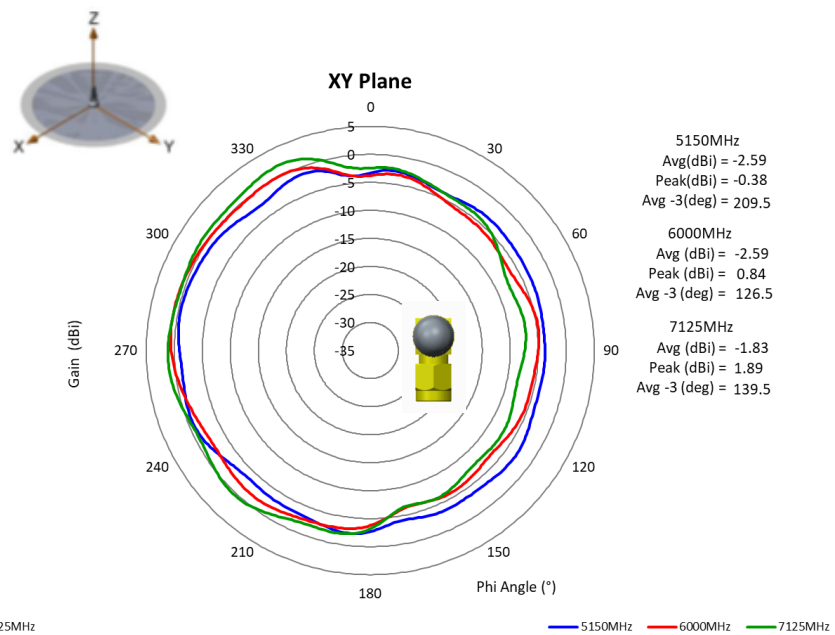
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Free Space Radiation Pattern

Elevation Plane



Horizontal Plane



(* All RF parameters measured with free space