

Series: ARMADILLO

**Description:** Vehicular Multiband Antenna with Adhesive Mount

**PART NUMBER: ARMXXXXXAM**

**Features:**

- Low profile, only 1.8” tall
- Up to 6-lead Configuration
  - LTE(2x) MIMO
  - WiFi(3x) MIMO-|2.4/5.x GHz
  - GPS/GNSS (1x)
- Frequency of Operation:
  - 698-960MHz,1710-2690MHz
  - 2400-2500MHz,5150-5925MHz
  - 1559-1606MHz

**Applications:**

- Telematics, Navigation
- First Responders(Police, Fire, Ambulance/EMS)
- Energy, Utility, Construction
- Fleet Management
- DSRC(Dedicated Short Range Communications)
- Available Configurations:
  - Black, White
  - Direct, Magnetic, Adhes.Mount

Preliminary



All dimensions are in mm / inches

Issue: 1804P

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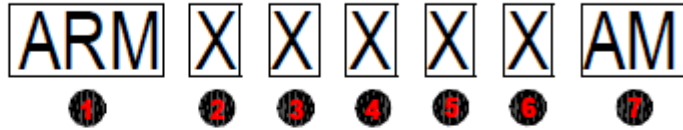
ELECTRICAL SPECIFICATIONS

Product	Total Cable Leads	LTE Cable Leads	WiFi Cable Leads	GPS Cable Leads	Housing Color	Mounting
ARM62311AM	6	2	3	1	Black	Adhesive Mount; 3M VHB4959 Thickness: 3mm
ARM62312AM	6	2	3	1	White	
ARM52211AM	5	2	2	1	Black	
ARM52212AM	5	2	2	1	White	
ARM42111AM	4	2	1	1	Black	
ARM42112AM	4	2	1	1	White	

Product Numbering

Vehicular Multiband Antenna with Direct Mount

(Part Number)



1	Product ID: ARMADILLO
2	Total Number of Cable leads
3	Total Number of LTE Cable Leads
4	Total Number of WiFi Cable Leads
5	Total Number of GPS Cable Leads
6	The Color of the Plastic Housing 1=Black; 2= White
7	Mounting: Adhesive Mount

	ARM62311AM	CABLE	CABLE LENGTH	CONNECTOR
1	LTE-1 Cable Assy	LMR-195*	5181 mm / 204" / 17 FT	SMA Male
2	LTE-2 Cable Assy			
3	WiFi-1 Cable Assy	LMR-195*		RP-SMA Male
4	WiFi-2 Cable Assy			
5	WiFi-3 Cable Assy	LMR-100*	SMA Male	
6	GPS Cable Assy			

\* or equivalent

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**ELECTRICAL SPECIFICATIONS**

Frequency	698-960MHz, 1710-2690MHz 2400-2500MHz, 5150-5925MHz
Nominal Impedance	50 Ω
VSWR*	
698-960MHz	<2.5
1710-2690MHz	<2.5
2400-2500MHz	<2
5150-5925MHz	<2
Isolation*	
698-960MHz, 1710-2690MHz	-8dB
2400-2500MHz, 5150-5925MHz	-12dB
Average Peak Gain**	
698-960MHz;	4.6dBi
1710-2690MHz	5.1dBi
2400-2500MHz	4.9dBi
5150-5925MHz	7.9dBi
Polarization	Vertical

\*Test on 500mm ground plane with 17ft(5.2m) LMR195 cable

\*\*Test on 500mm ground plane with 1ft(304.8) LMR195 cable

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### ELECTRICAL SPECIFICATIONS

GPS Antenna	
Frequency	1561.098±2.046MHz/ 1575.42±1.023MHz/ 1602.5625±4MHz
Nominal Impedance	50 Ω
VSWR	<2
Gain (Radiating Element)	1 dBic±1 dB
Gain (LNA Gain)	30 dB± 2 dB
Polarization	RHCP
Out of Band Rejection	
698 MHz	>70 dB
960 MHz	>65 dB
1710 MHz	>60 dB
2170 MHz	>65 dB
2400 MHz	>65 dB
2700 MHz	>65 dB
Noise Figure	<2.4 dB
Operating Voltage	3.3 – 5 Vdc
Current Consumption	<15mA

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**MECHANICAL SPECIFICATIONS**

Overall Length	202.3mm X 88.5mm X 45mm
Weight	1 Kg
Antenna Color / Material	Black or White
Connector type	Refer to Page 2
Cable type	Refer to Page 2
Cable length	Refer to Page 2

**ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature	-40 ~ +85° C
Storage Temperature	-40 ~ +85° C
Ingress Protection	IP67
RoHS Compliant	Yes

**OTHER SPECIFICATIONS**

Total cable assembly loss for 5.2m (17') LMR-195 @850MHz	2.1dB
Total cable assembly loss for 5.2m (17') LMR-100 @1575MHz	5.9dB
Total cable assembly loss for 5.2m (17') LMR-195 @1930MHz	3.2dB
Total cable assembly loss for 5.2m (17') LMR-195 @2450MHz	3.6dB
Total cable assembly loss for 5.2m (17') LMR-195 @2500MHz	3.7dB
Total cable assembly loss for 5.2m (17') LMR-195 @5350MHz	5.5dB

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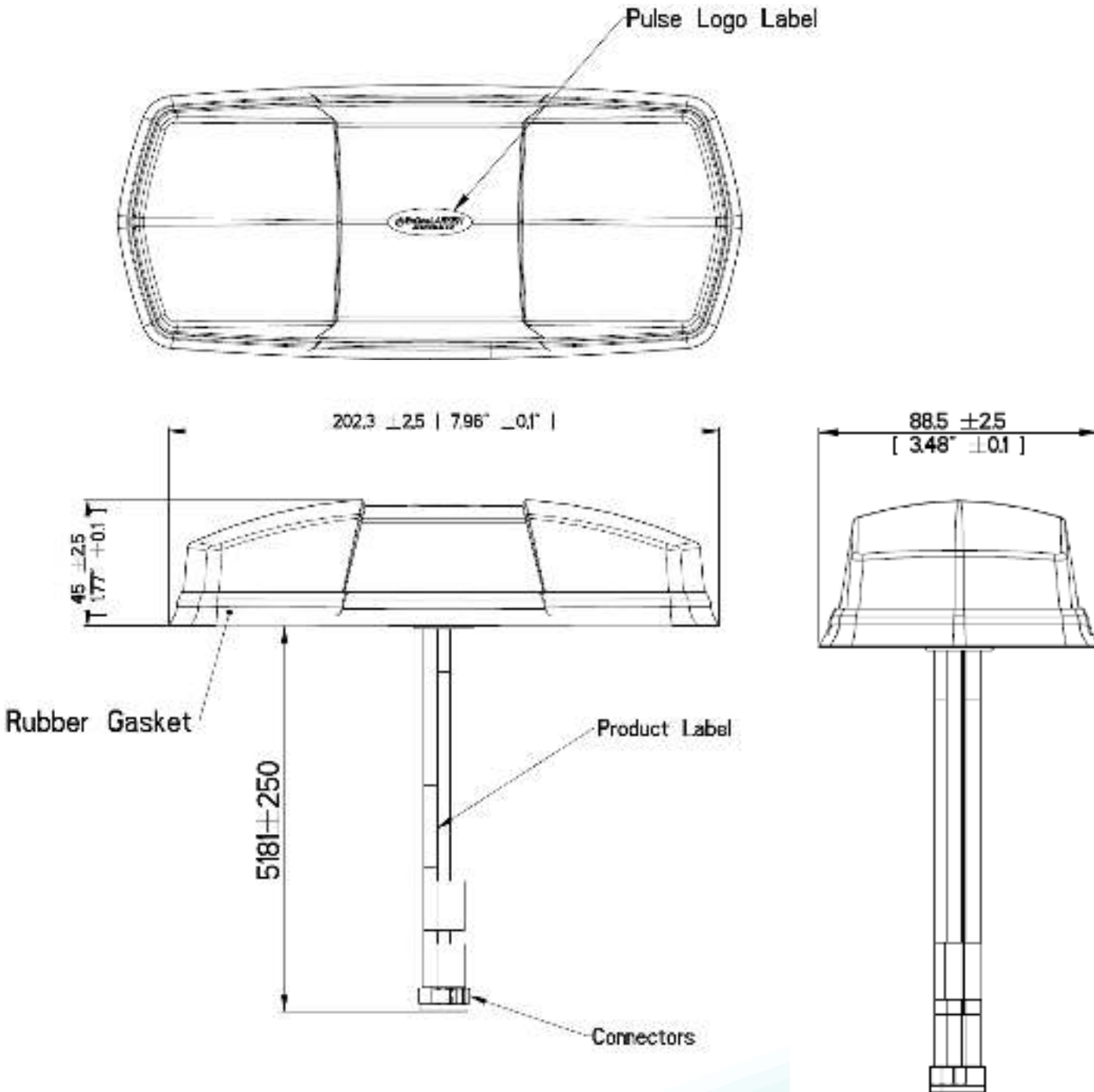


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MECHANICAL DRAWING



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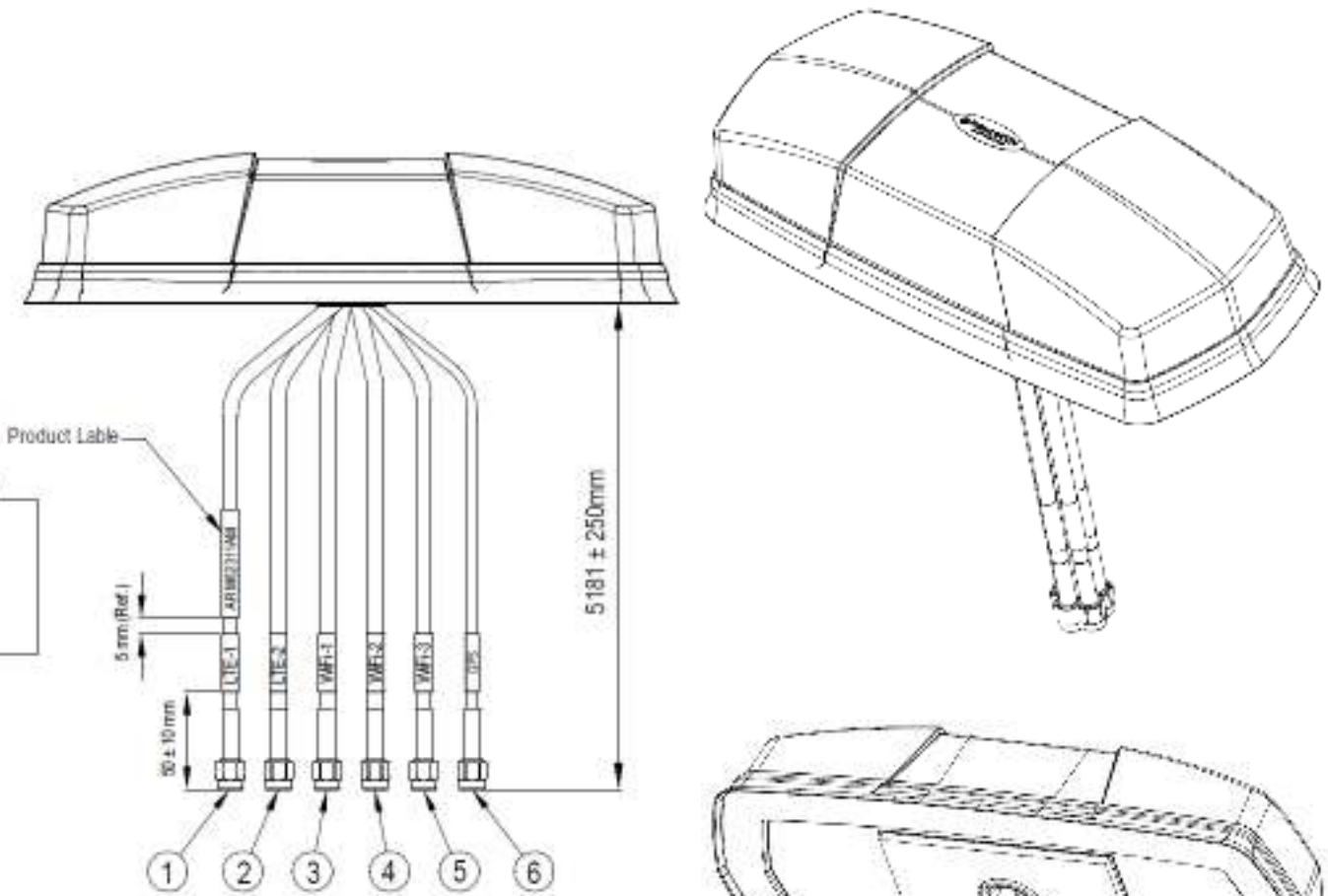
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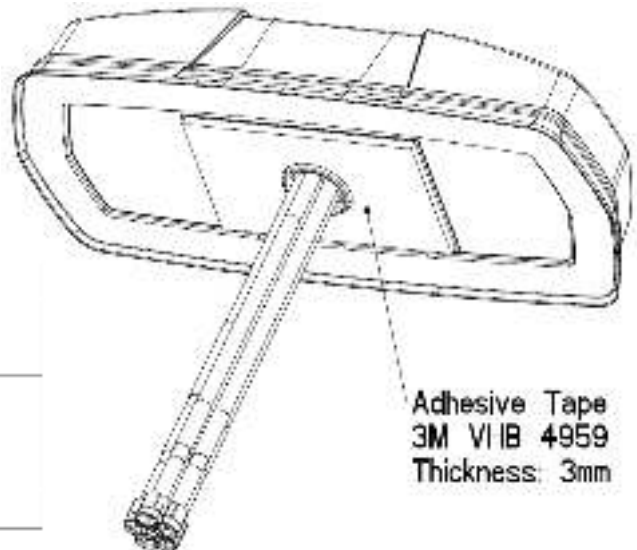
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**MECHANICAL DRAWING**



	ARM62311AM	CABLE	CABLE LENGTH	CONNECTOR
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2	LTE-2 Cable Assy			
3	WiFi-1 Cable Assy	RP-SMA Male		
4	WiFi-2 Cable Assy			
5	WiFi-3 Cable Assy			
6	GPS Cable Assy	LMR-100*		SMA Male

\* or equivalent



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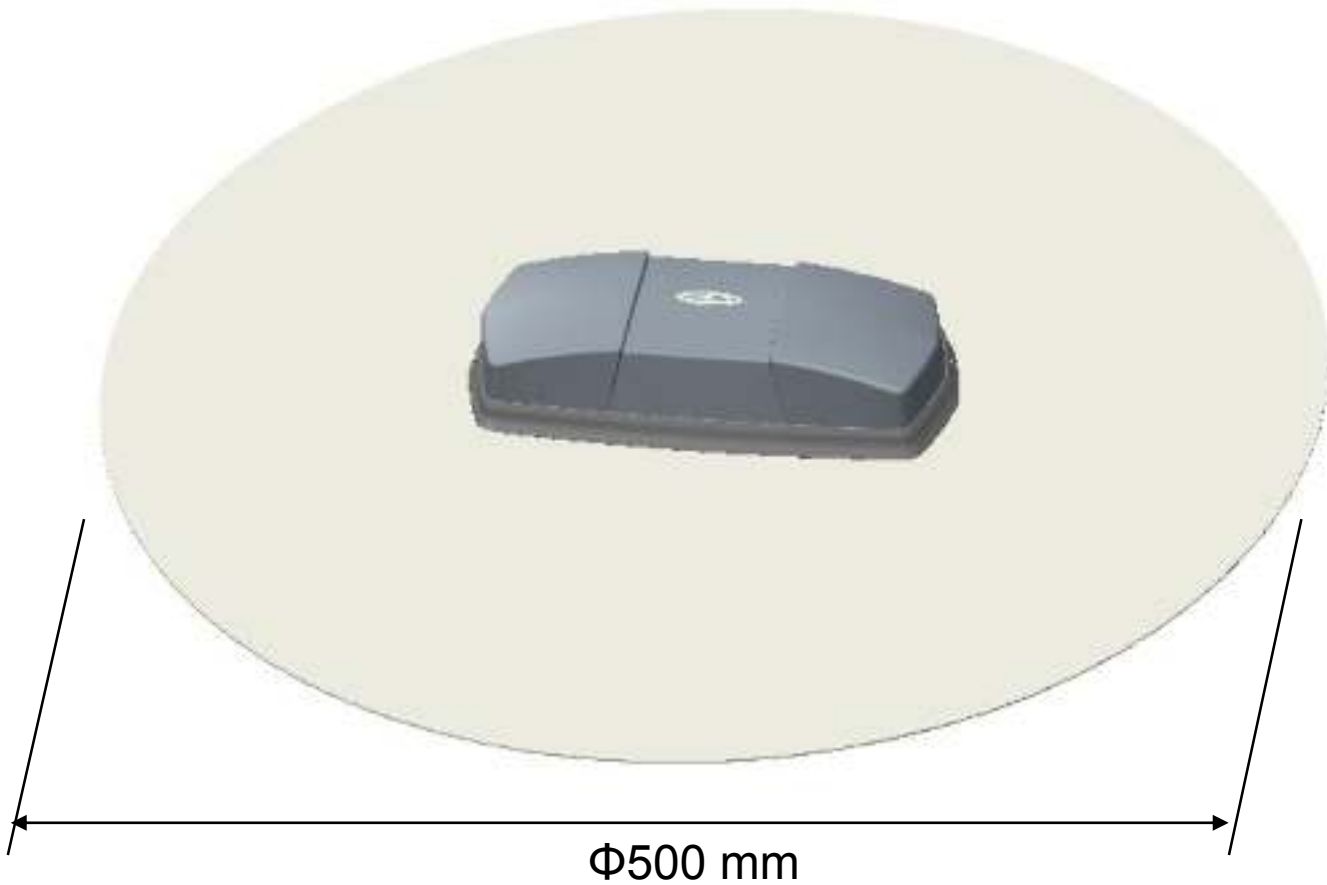
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### TEST SETUP

Antenna tested on a  $\Phi 500\text{mm}$  ground plane.



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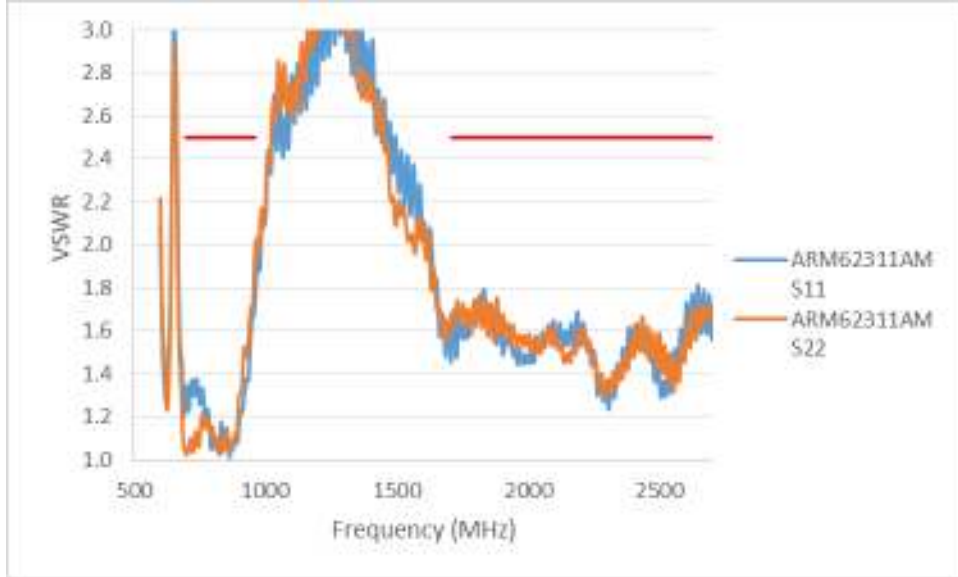
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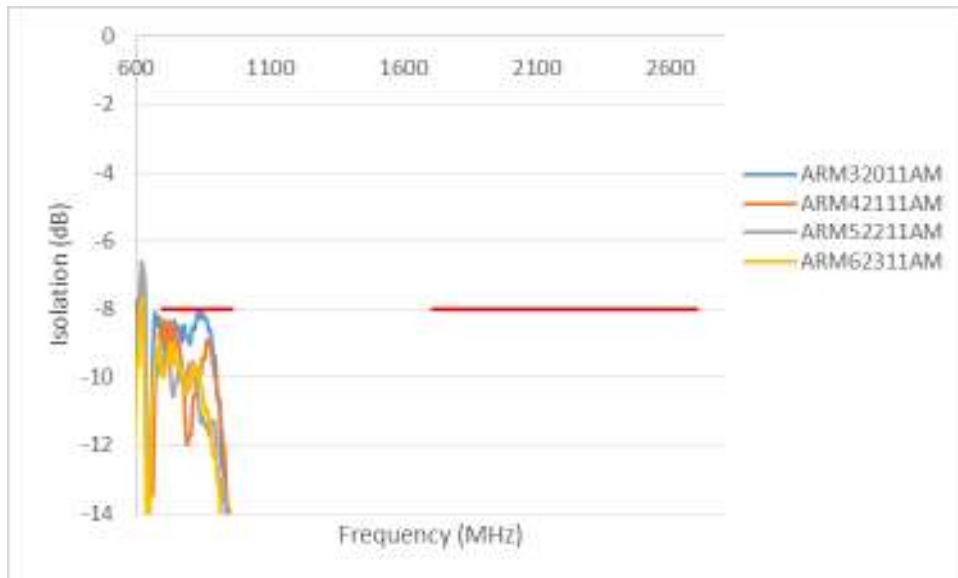
PART NUMBER: ARMXXXXXAM

CHARTS

VSWR (LTE)



Isolation (LTE)



Note : Antenna tested with 5m cable on 500mm (dia) ground plane

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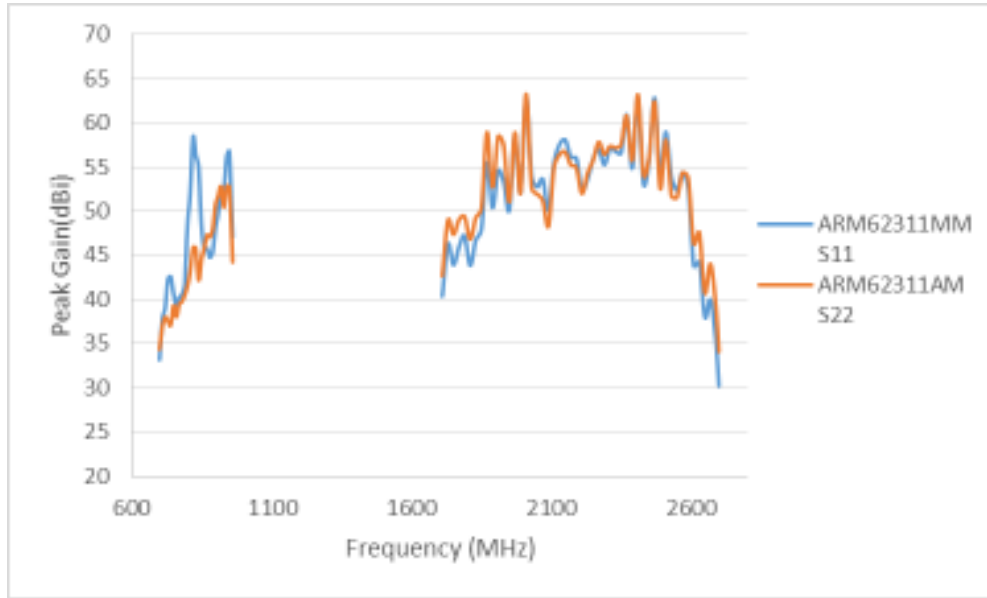
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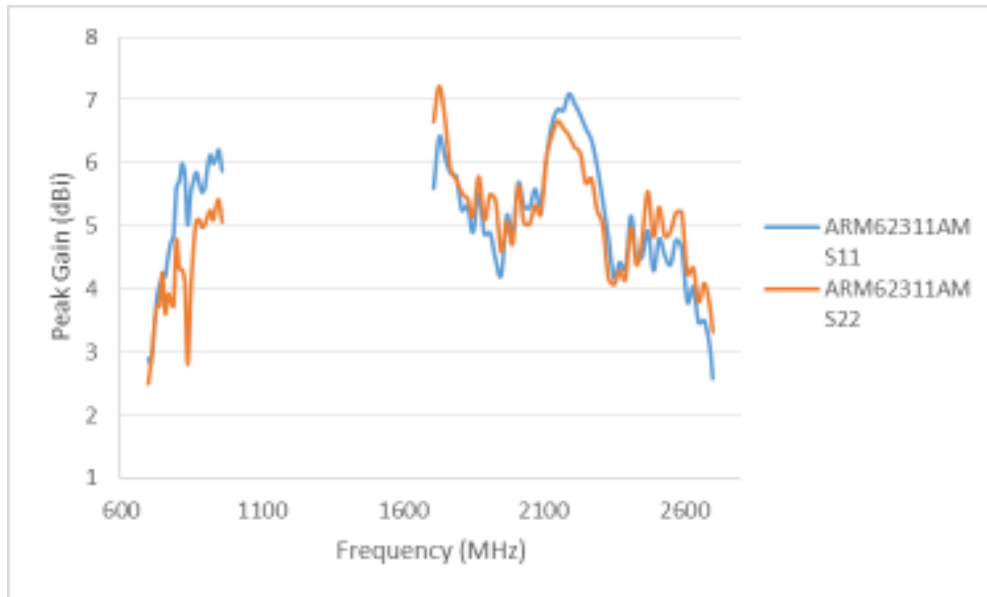
**PART NUMBER:** ARMXXXXXAM

CHARTS

Radiation Efficiency (LTE)



Peak Gain (LTE)



Note : Antenna tested with 1ft(304.8mm) cable on 500mm (dia) ground plane

Preliminary

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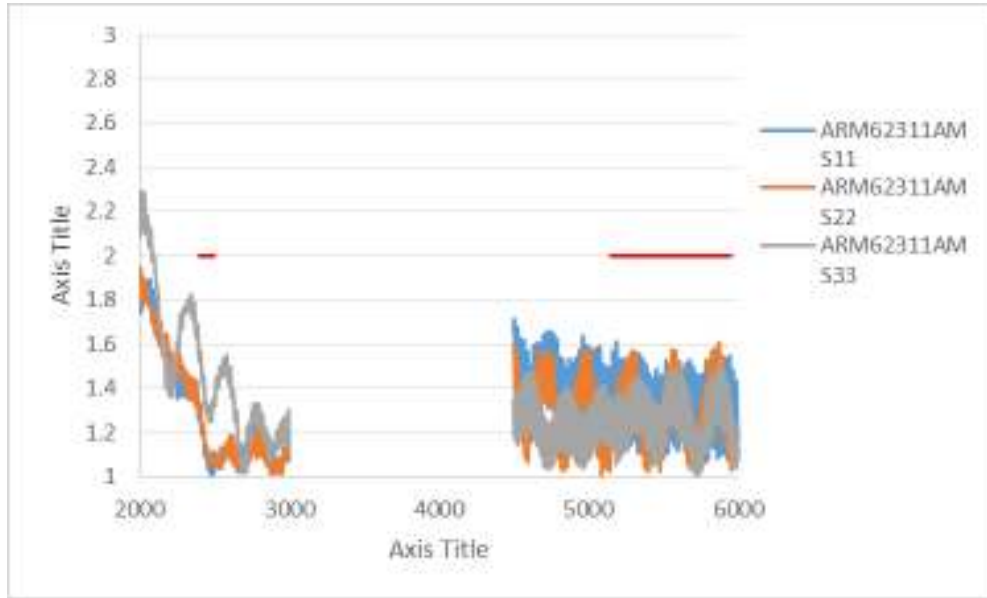
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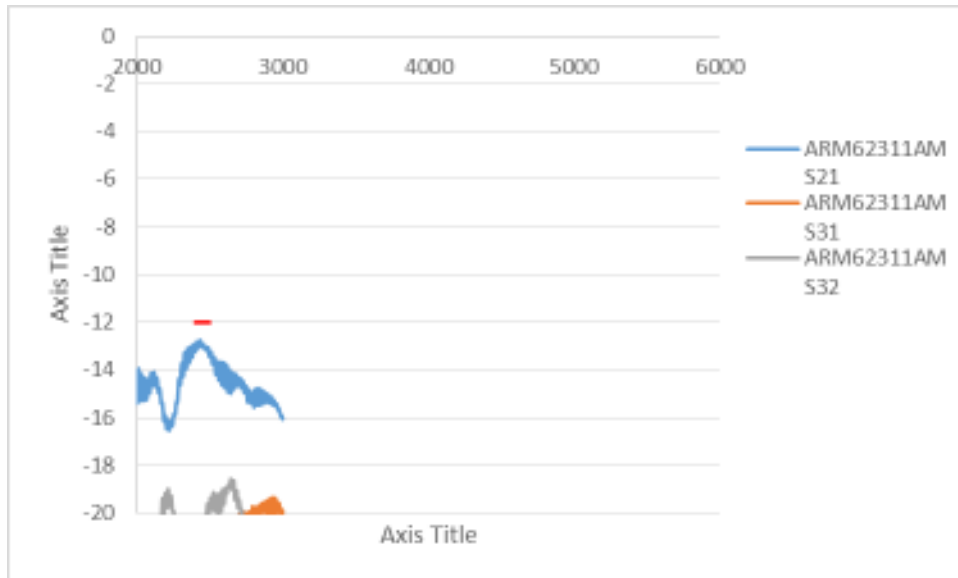
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**CHARTS**

**VSWR (WIFI)**



**Isolation (WIFI)**



Note : Antenna tested with 5m cable on 500mm (dia) ground plane

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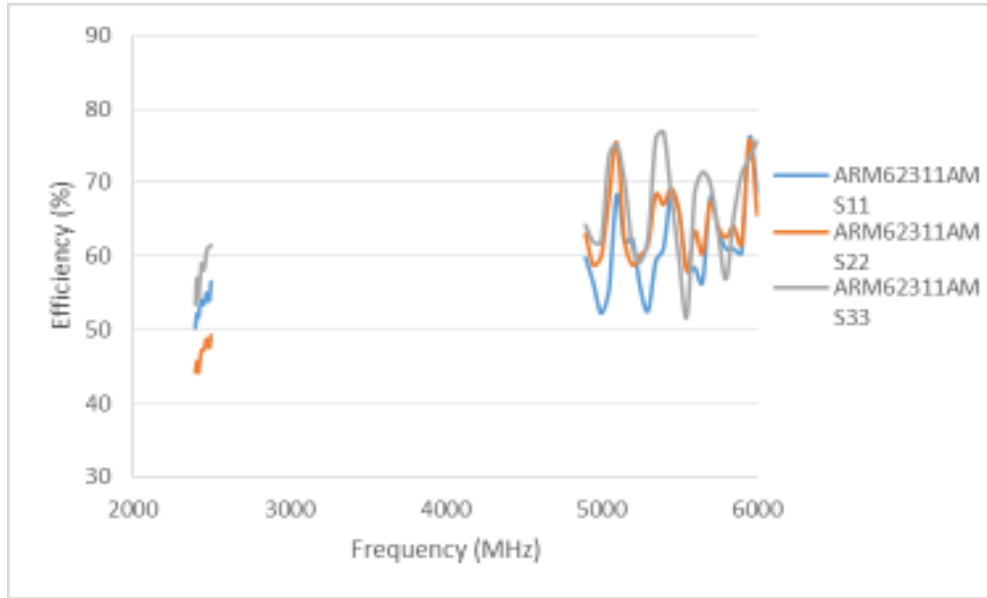
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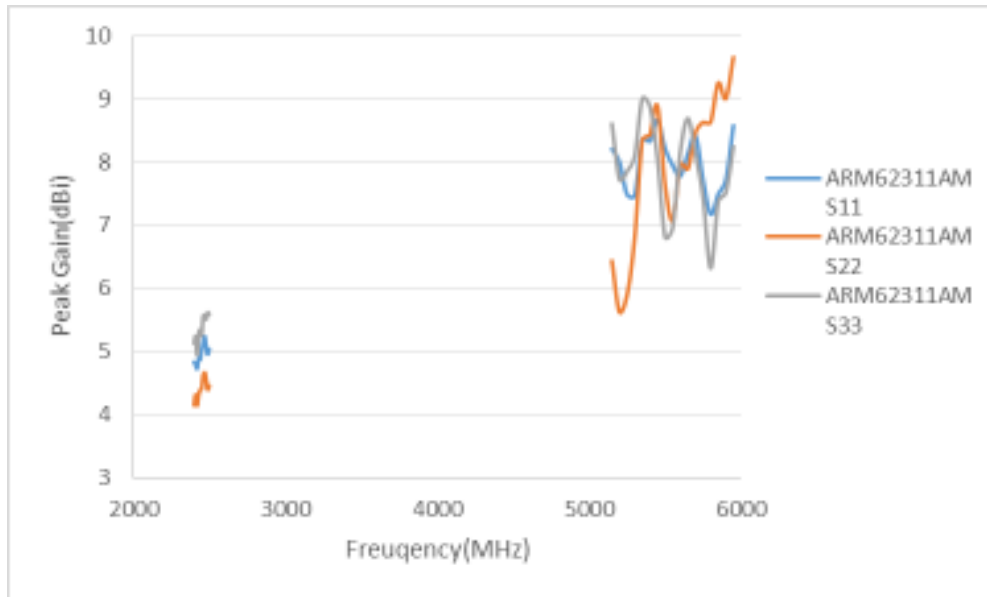
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**CHARTS**

**Radiation Efficiency (WIFI)**



**Peak Gain (WIFI)**



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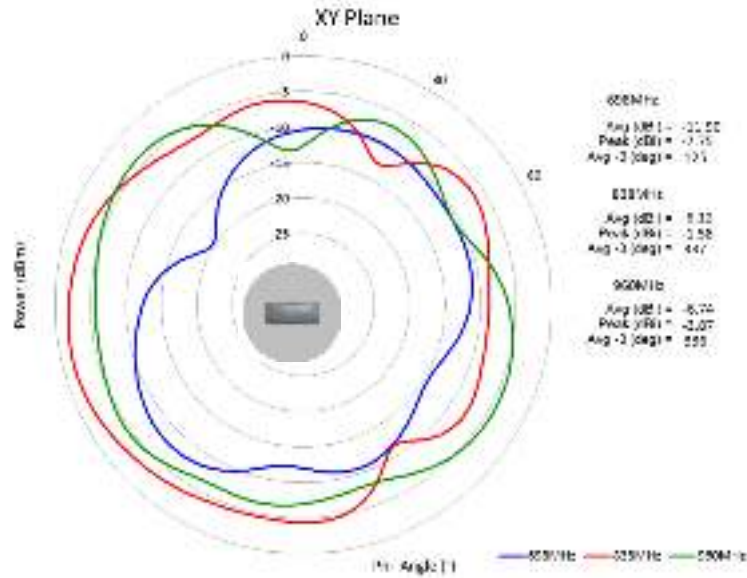


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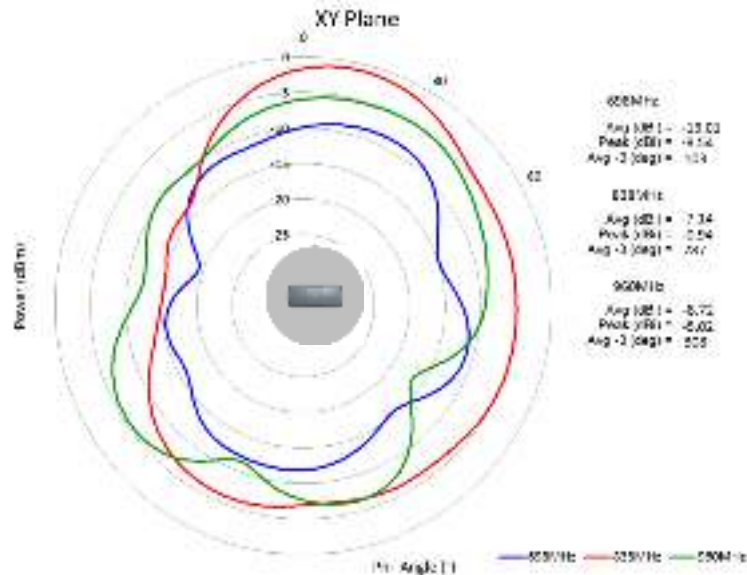
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CHARTS



LTE1 XY plane radiation pattern



LTE2 XY plane radiation pattern

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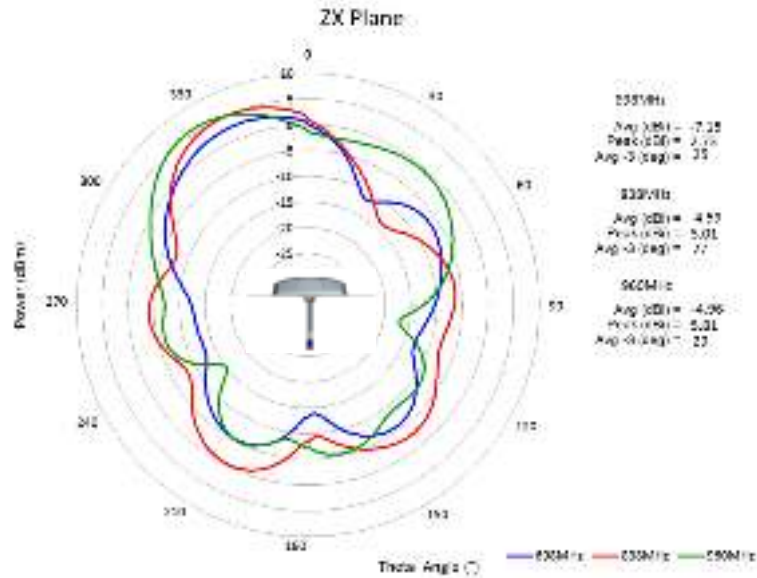


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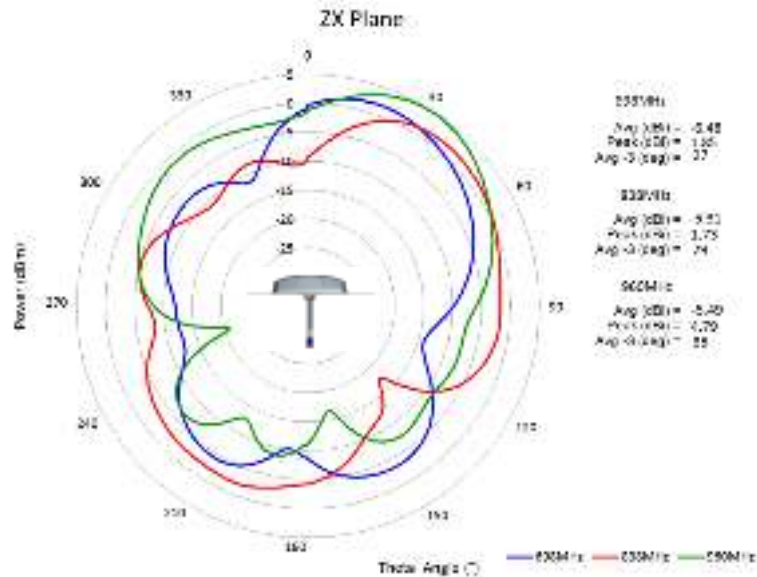
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LTE1 ZX plane radiation pattern



LTE2 ZX plane radiation pattern

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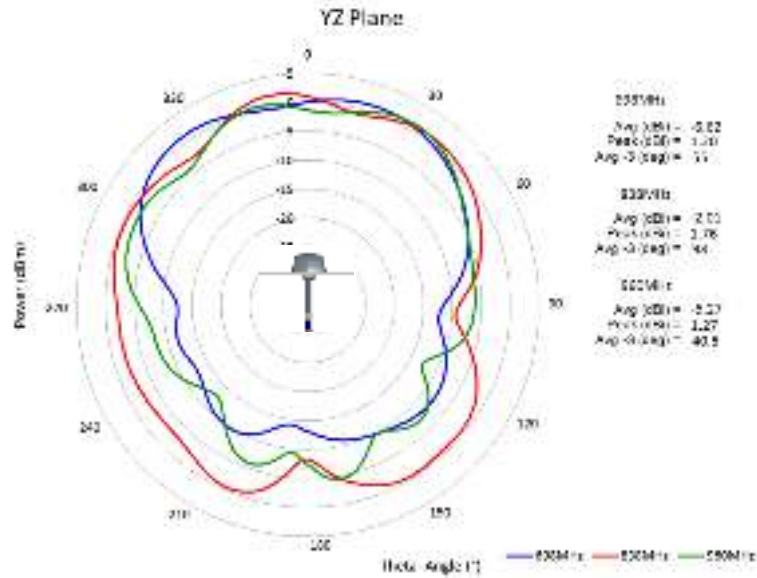
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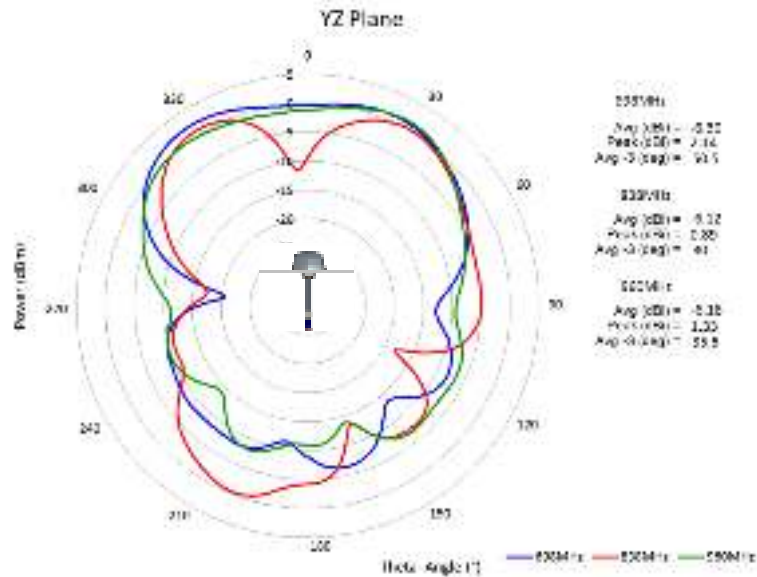
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CHARTS



LTE1 YZ plane radiation pattern



LTE2 YZ plane radiation pattern

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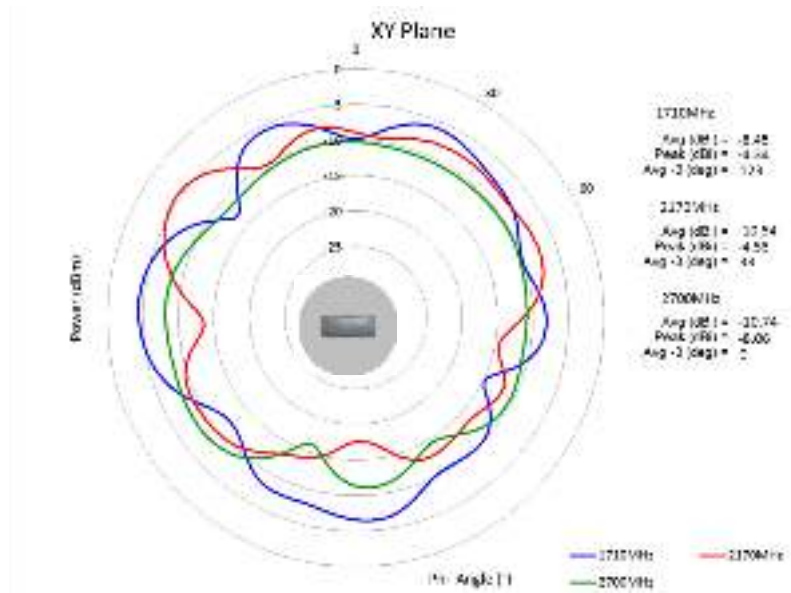


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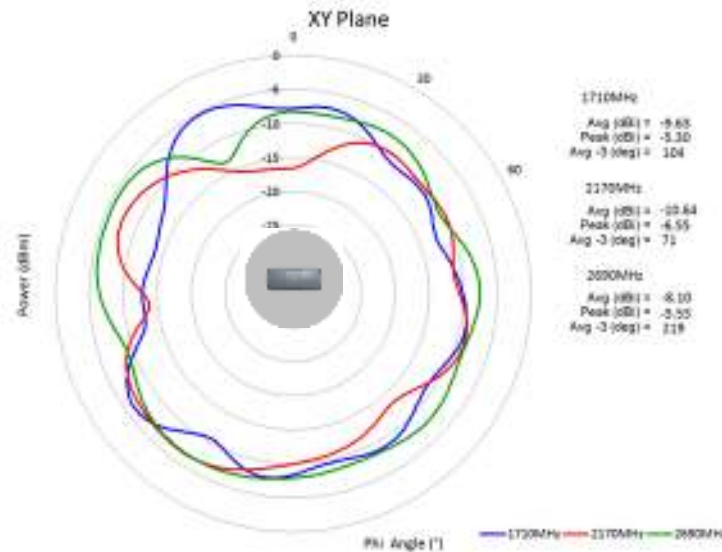
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CHARTS



LTE1 XY plane radiation pattern



LTE2 XY plane radiation pattern

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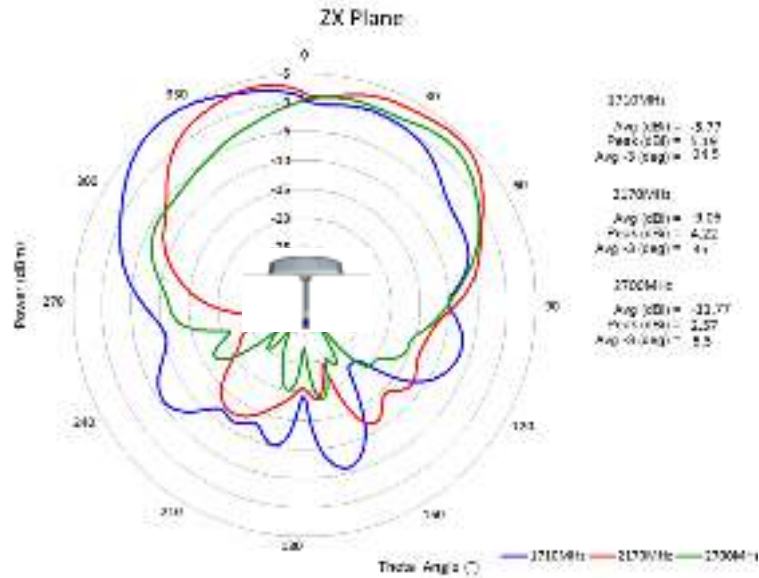


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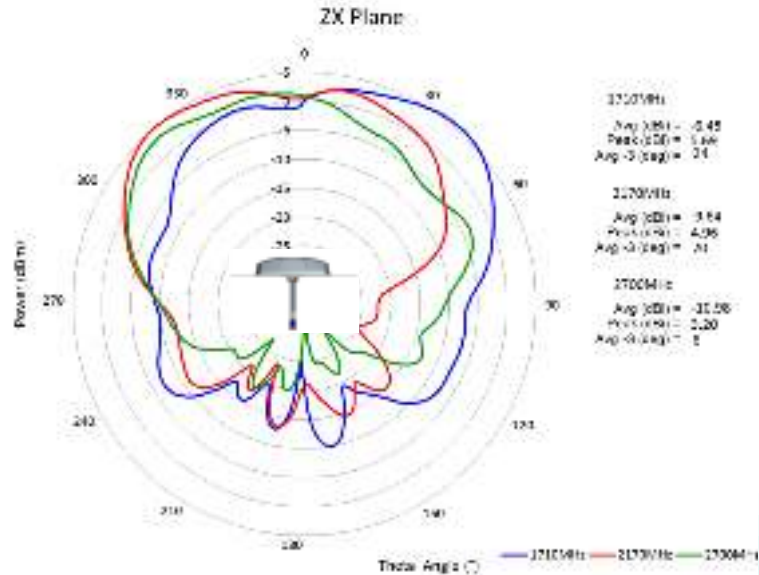
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CHARTS



LTE1 ZX plane radiation pattern



LTE2 ZX plane radiation pattern

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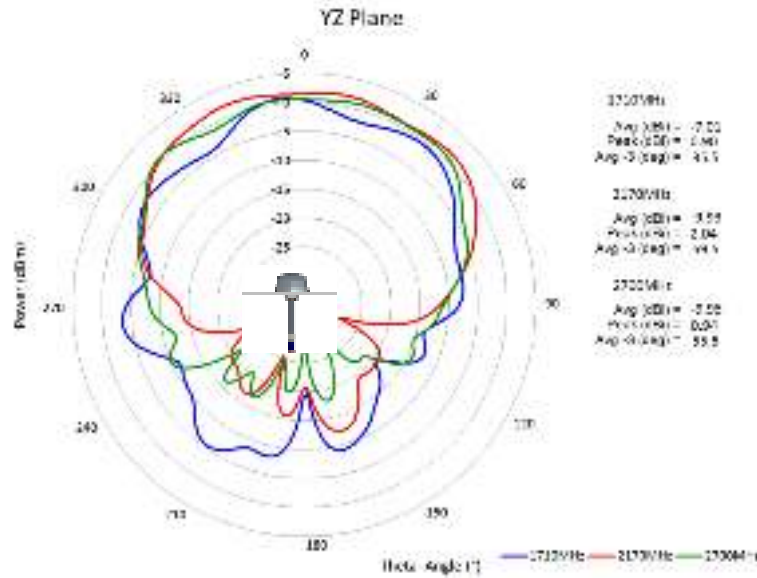


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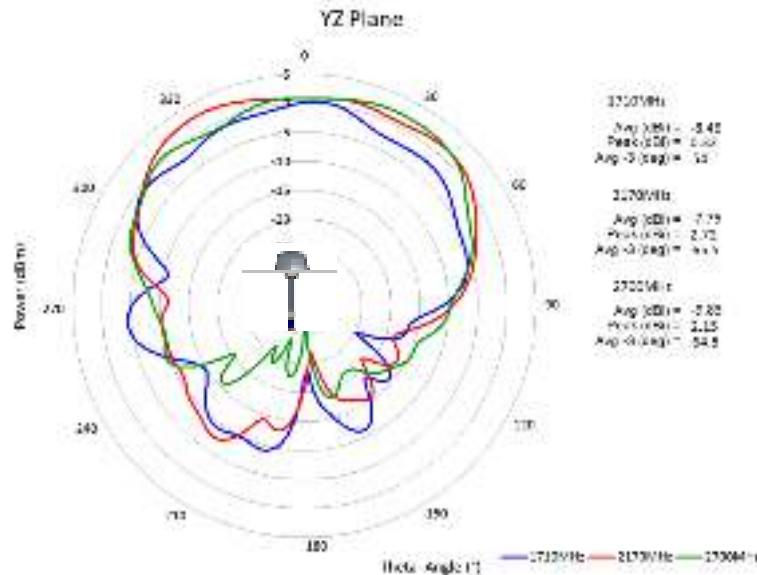
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LTE1 YZ plane radiation pattern



LTE2 YZ plane radiation pattern

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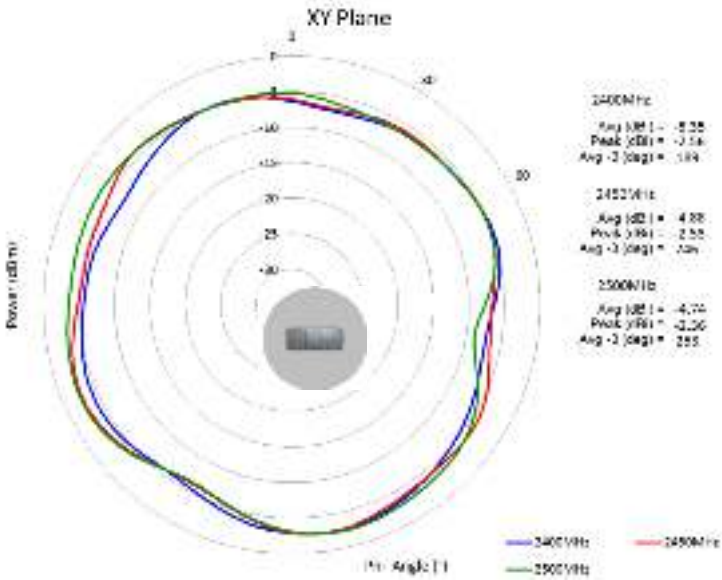
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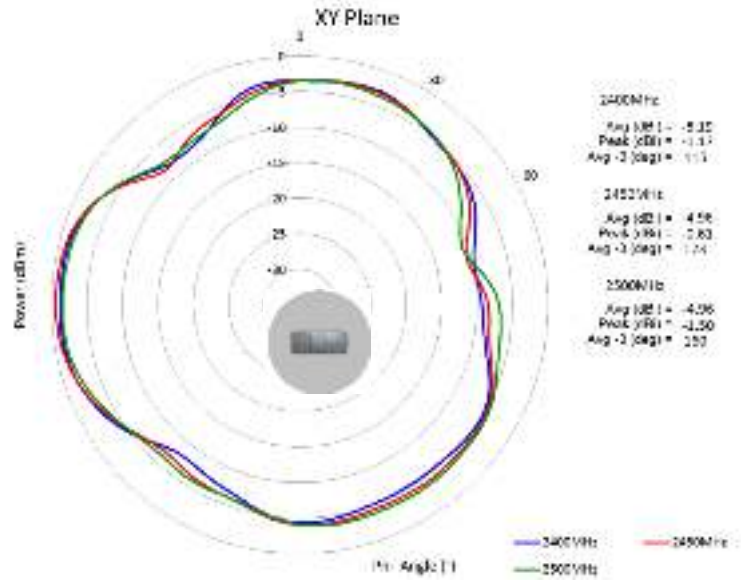
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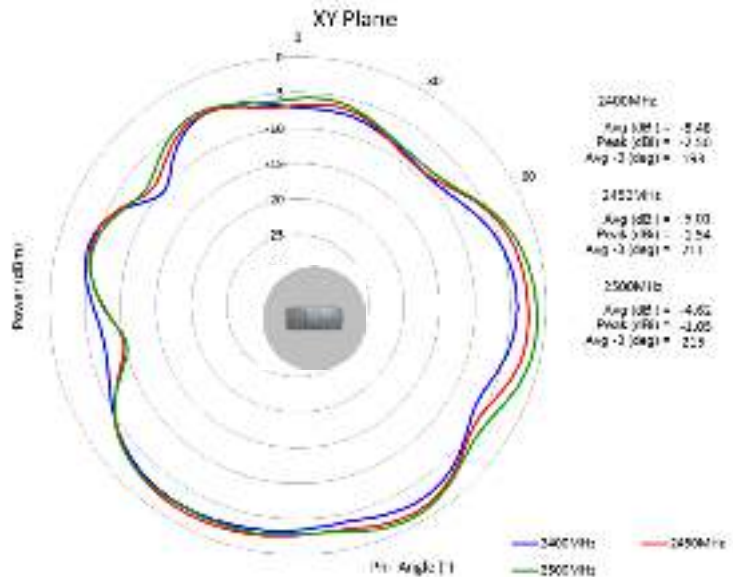
CHARTS



WiFi1 XY plane radiation pattern



WiFi2 XY plane radiation pattern



WiFi3 XY plane radiation pattern

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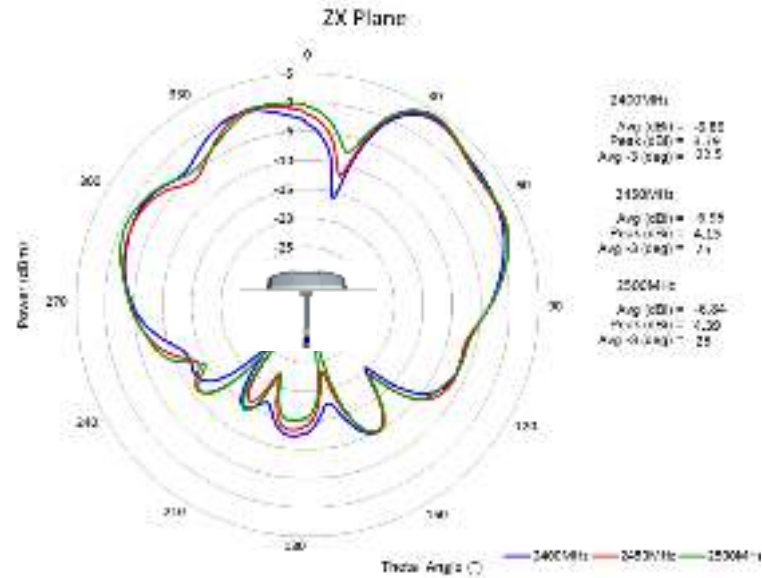
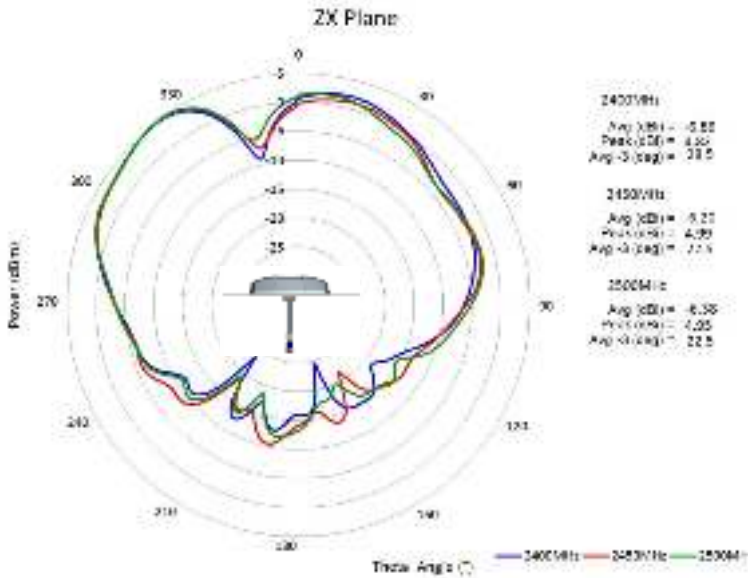
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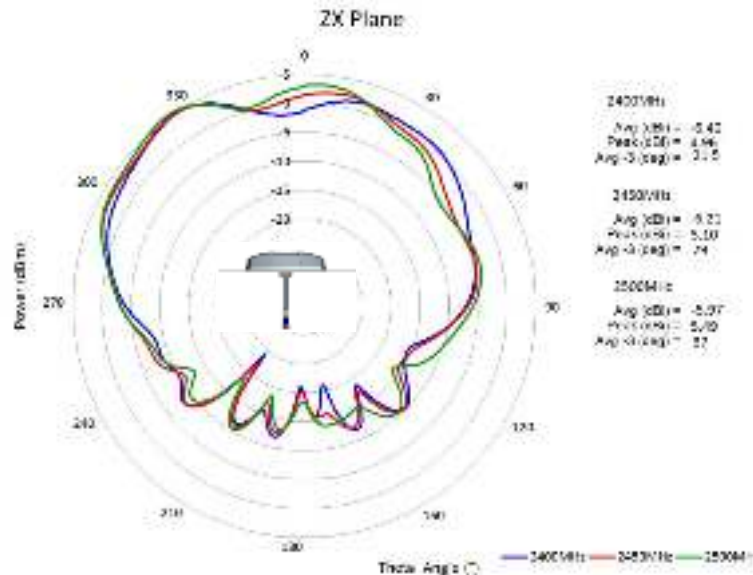
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**CHARTS**



WiFi1 ZX plane radiation pattern

WiFi2 ZX plane radiation pattern



WiFi3 ZX plane radiation pattern

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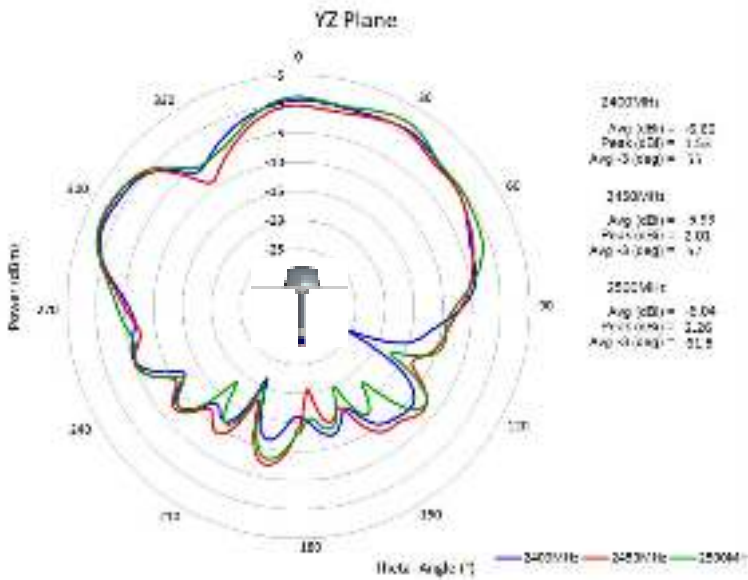
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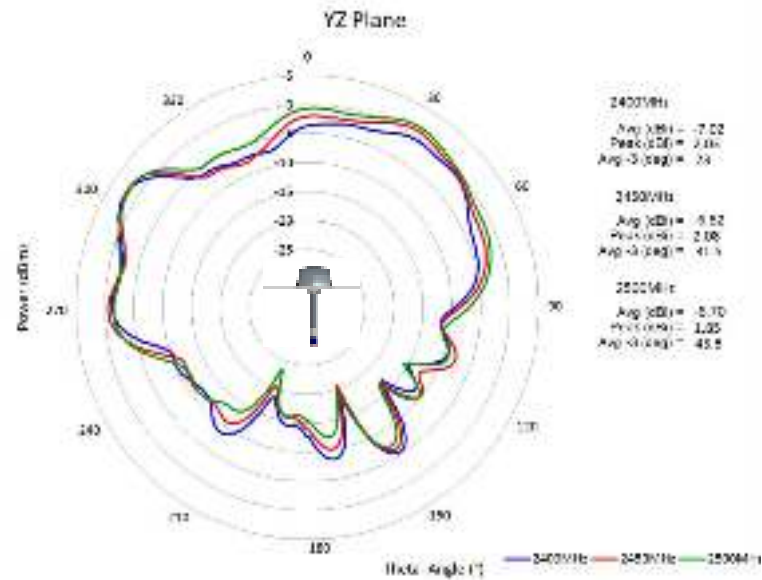
**Series:** ARMADILLO

**PART NUMBER:** ARMXXXXXAM

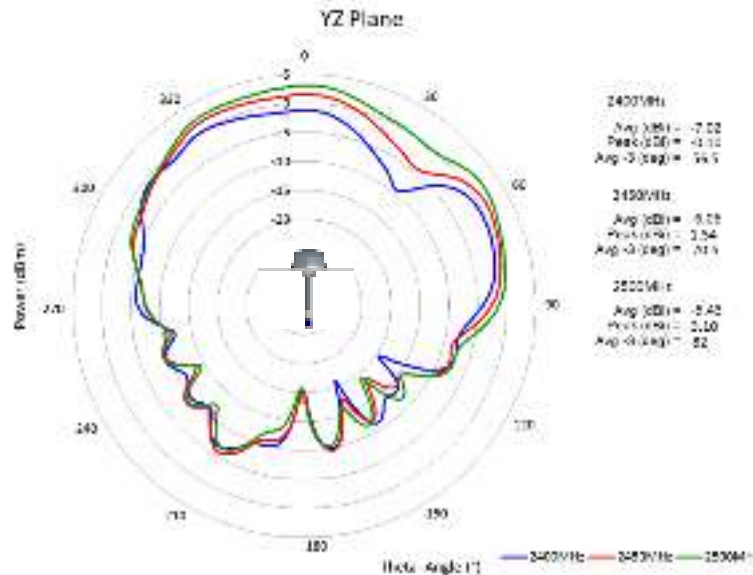
CHARTS



WiFi1 YZ plane radiation pattern



WiFi2 YZ plane radiation pattern



WiFi3 YZ plane radiation pattern

Preliminary

Issue: 1804P

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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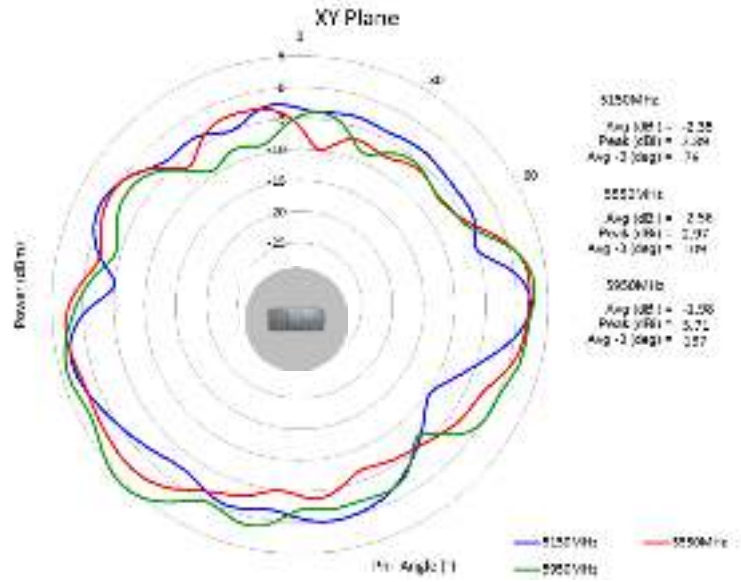
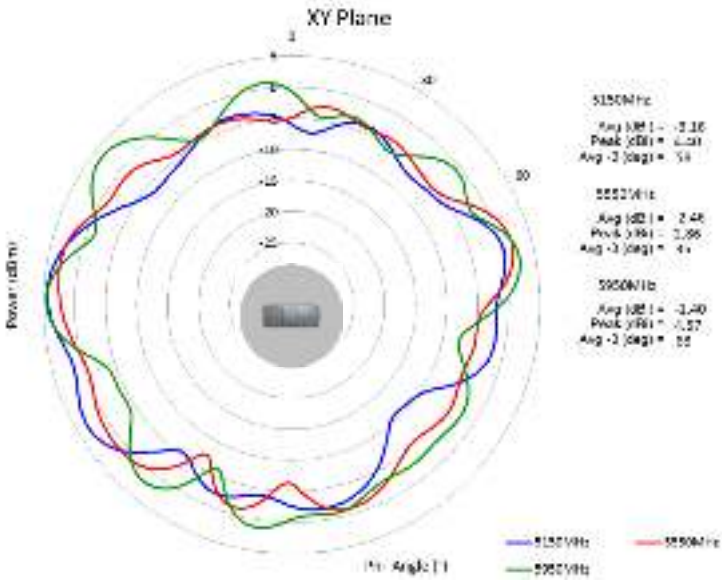
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**Description:** Vehicular Multiband Antenna with Adhesive Mount

**Series:** ARMADILLO

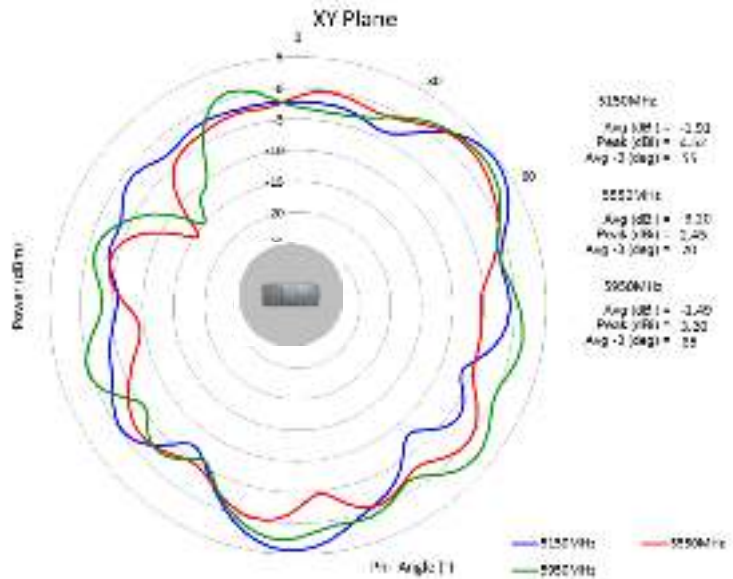
**PART NUMBER:** ARMXXXXXAM

CHARTS



WiFi1 XY plane radiation pattern

WiFi2 XY plane radiation pattern



WiFi3 XY plane radiation pattern

Preliminary

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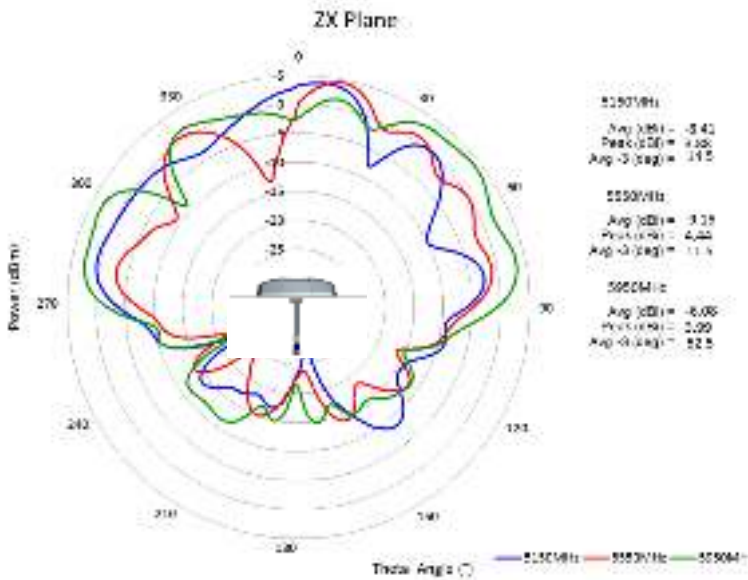
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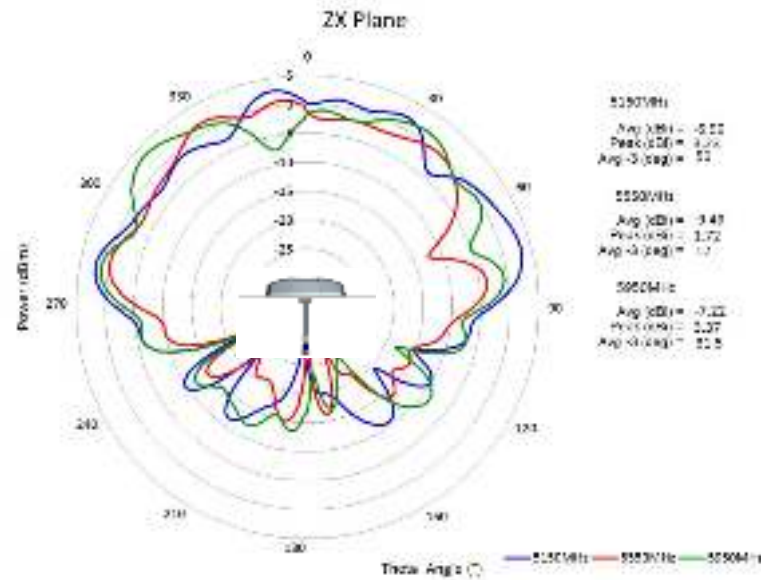
**Series:** ARMADILLO

**PART NUMBER:** ARMXXXXXAM

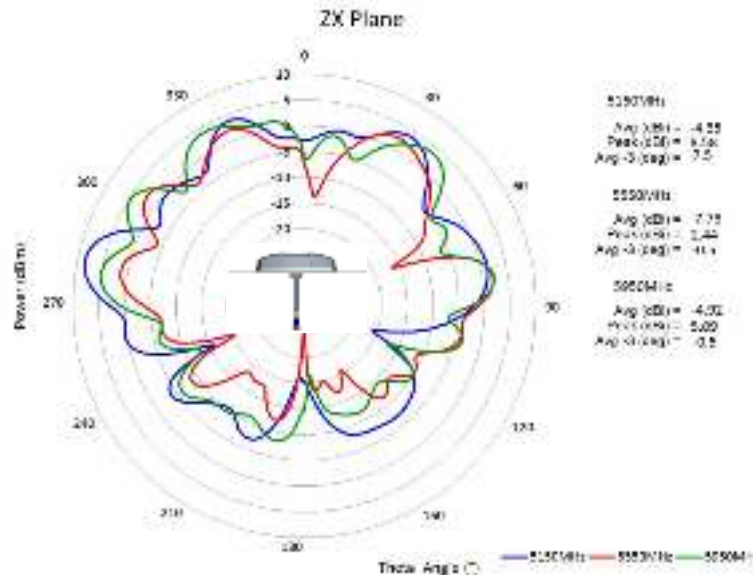
CHARTS



WiFi1 ZX plane radiation pattern



WiFi2 ZX plane radiation pattern



WiFi3 ZX plane radiation pattern

Preliminary

Issue: 1804P

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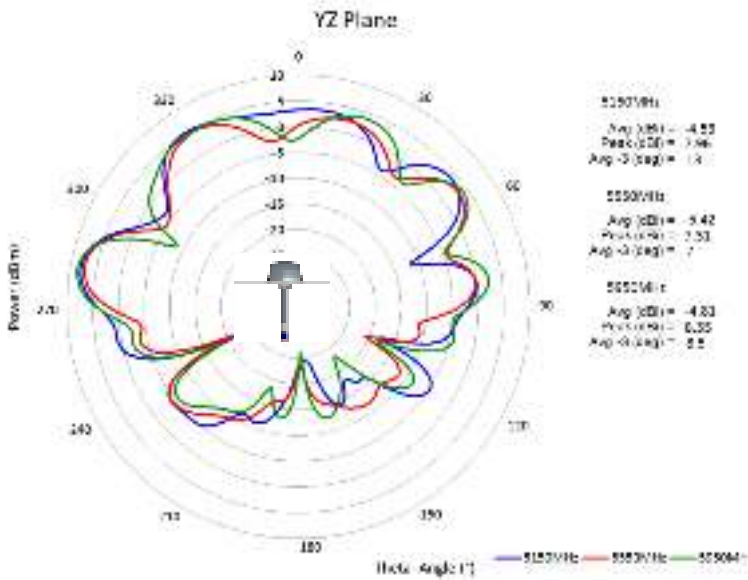
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Series: ARMADILLO

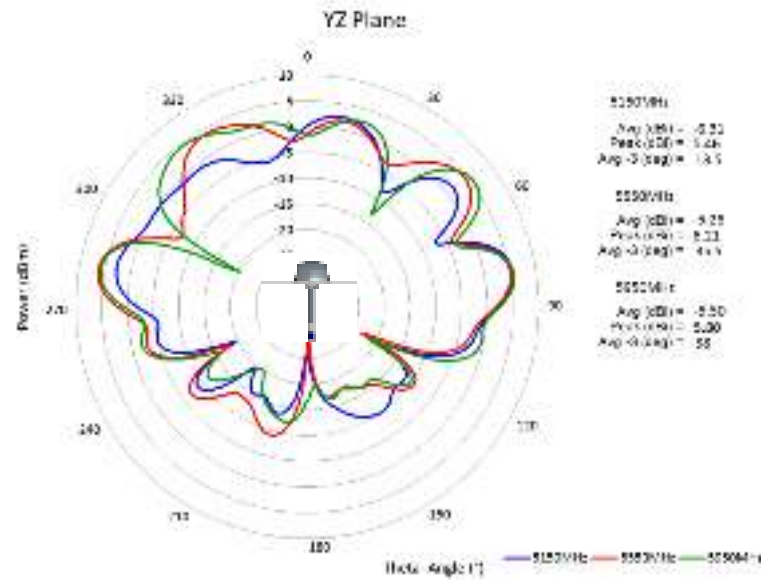
Description: Vehicular Multiband Antenna with Adhesive Mount

PART NUMBER: ARMXXXXAM

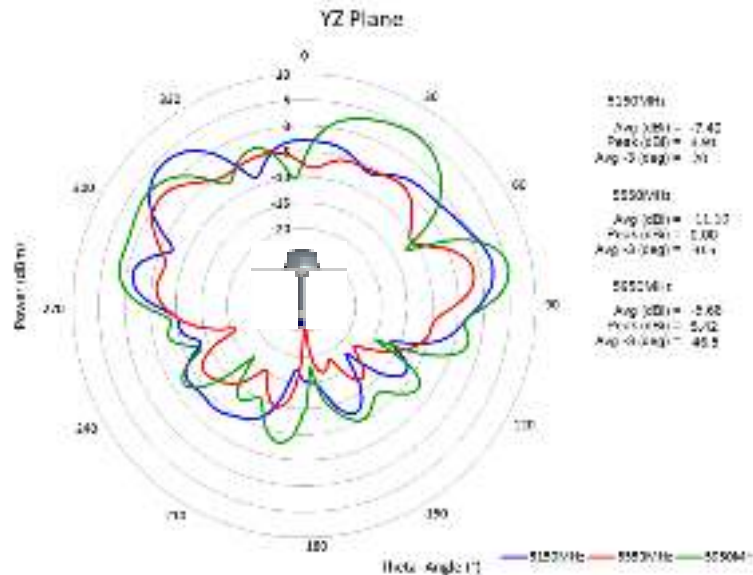
CHARTS



WiFi1 YZ plane radiation pattern



WiFi2 YZ plane radiation pattern



WiFi3 YZ plane radiation pattern

Preliminary

Issue: 1804P

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Series: ARMADILLO

**Description:** Vehicular Multiband Antenna with Adhesive Mount

**PART NUMBER: ARMXXXXXAM**

## PACKAGING

Each antennas packed in Bubble Bag

6 bags of antennas (Total 6pcs) packed in a cardboard box

1 label on each box with quantity, part number, date code.

Issue: 1804P

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