



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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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

All dimensions are in mm / inches

Issue: 1804P

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Preliminary



Series: ARMADILLO

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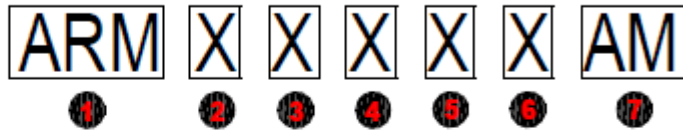
ELECTRICAL SPECIFICATIONS

| Product    | Total Cable Leads | LTE Cable Leads | WiFi Cable Leads | GPS Cable Leads | Housing Color | Mounting  |
|------------|-------------------|-----------------|------------------|-----------------|---------------|---|
| ARM62311AM | 6                 | 2               | 3                | 1               | Black         | Adhesive Mount;<br>3M VHB4959<br>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<br>1=Black; 2= White |
| 7 | Mounting: Adhesive Mount                              |

|   | ARM62311AM        | CABLE    | CABLE LENGTH                 | CONNECTOR   |
|---|-------------------|----------|------------------------------|-------------|
| 1 | LTE-1 Cable Assy  | LMR-195* | 5181 mm /<br>204" /<br>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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Series: ARMADILLO

Description: Vehicular Multiband Antenna with Adhesive Mount

PART NUMBER: ARMXXXXXAM

**ELECTRICAL SPECIFICATIONS**

|                            |  |
|----------------------------|--|
| Frequency                  | 698-960MHz, 1710-2690MHz<br>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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Series: ARMADILLO

**Description:** Vehicular Multiband Antenna with Adhesive Mount**PART NUMBER: ARMXXXXXAM****ELECTRICAL SPECIFICATIONS**

|                          |   |
|--------------------------|---|
| GPS Antenna              |   |
| Frequency                | 1561.098±2.046MHz/<br>1575.42±1.023MHz/<br>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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Description: Vehicular Multiband Antenna with Adhesive Mount

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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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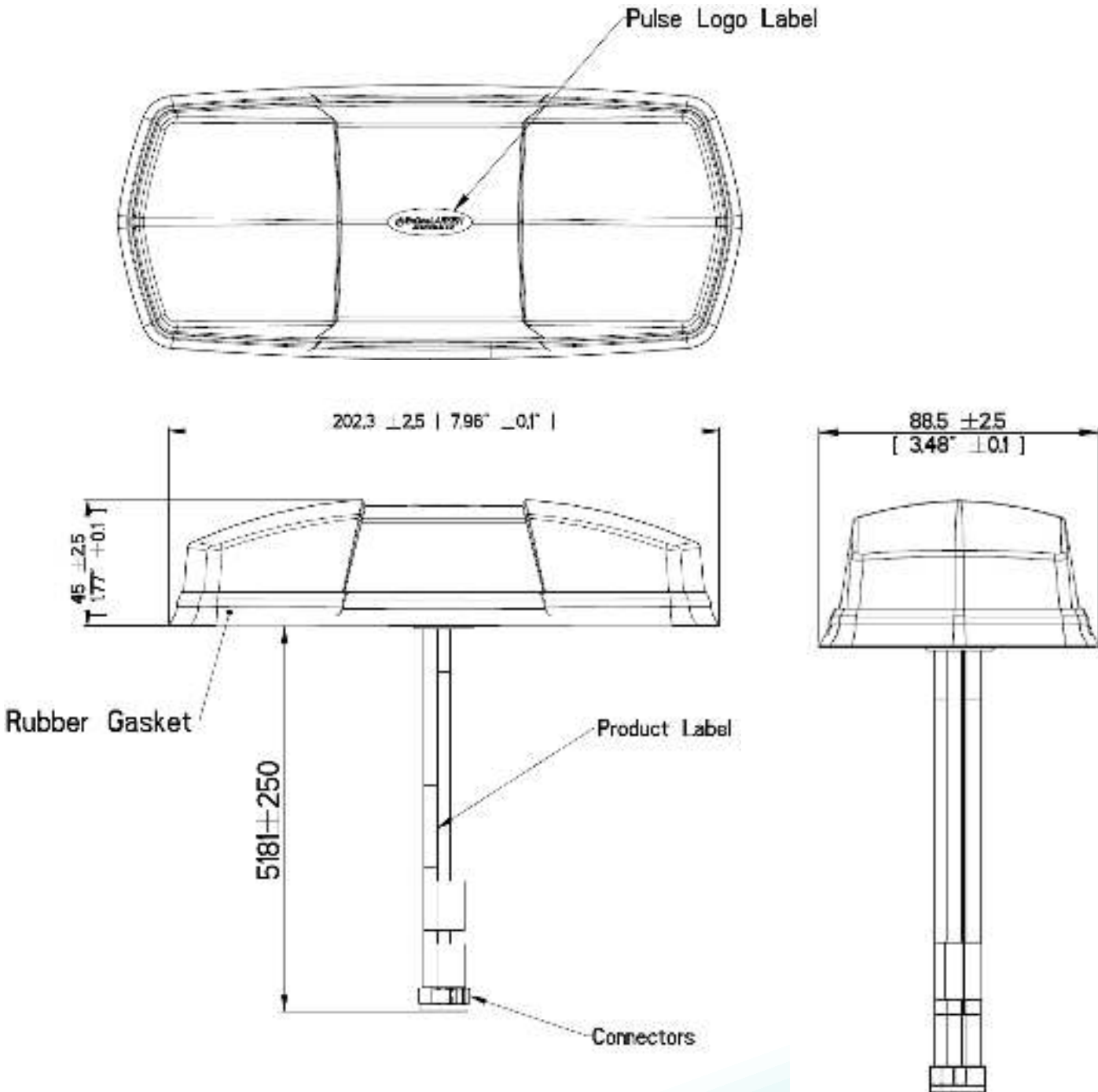


Series: ARMADILLO

Description: Vehicular Multiband Antenna with Adhesive Mount

PART NUMBER: ARMXXXXXAM

MECHANICAL DRAWING



Issue: 1804P

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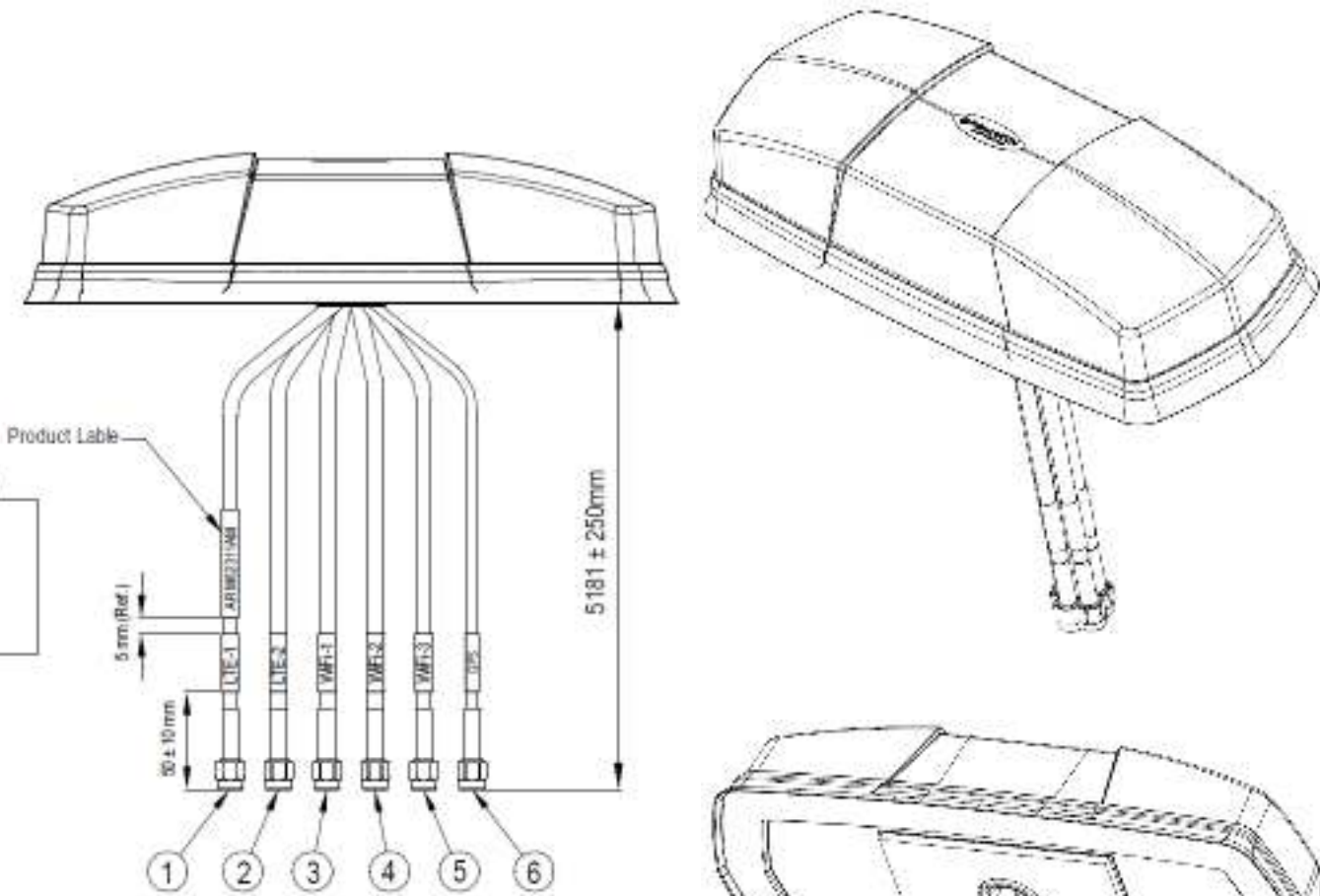
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**Series:** ARMADILLO

**PART NUMBER:** ARMXXXXAM

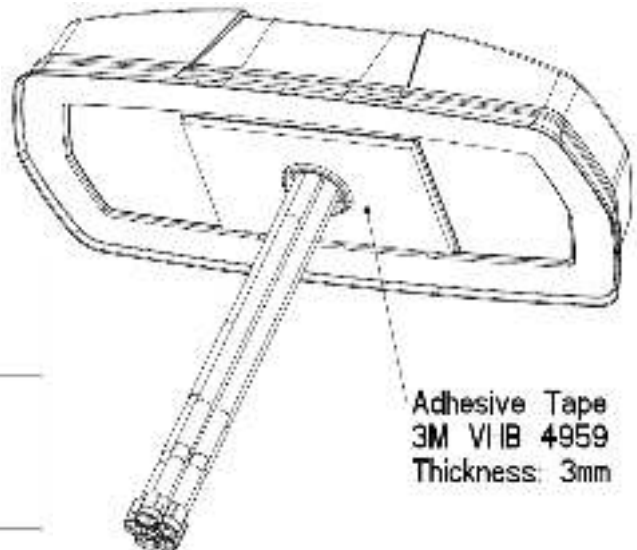
**MECHANICAL DRAWING**



Product Label Content  
 P.N.: ARM62311AM  
 Rev.: V01  
 Date: DD-MM-YYYY

|   | ARM62311AM        | CABLE    | CABLE LENGTH                 | CONNECTOR   |
|---|-------------------|----------|------------------------------|-------------|
| 1 | LTE-1 Cable Assy  | LMR-166* | 5181 mm /<br>204' /<br>17 FT | SMA Male    |
| 2 | LTE-2 Cable Assy  |          |                              | SMA Male    |
| 3 | WiFi-1 Cable Assy | LMR-166* | 5181 mm /<br>204' /<br>17 FT | RP-SMA Male |
| 4 | WiFi-2 Cable Assy |          |                              | RP-SMA Male |
| 5 | WiFi-3 Cable Assy | LMR-100* | 5181 mm /<br>204' /<br>17 FT | SMA Male    |
| 6 | GPS Cable Assy    |          |                              | SMA Male    |

\* or equivalent



Adhesive Tape  
 3M VIIB 4959  
 Thickness: 3mm

Preliminary

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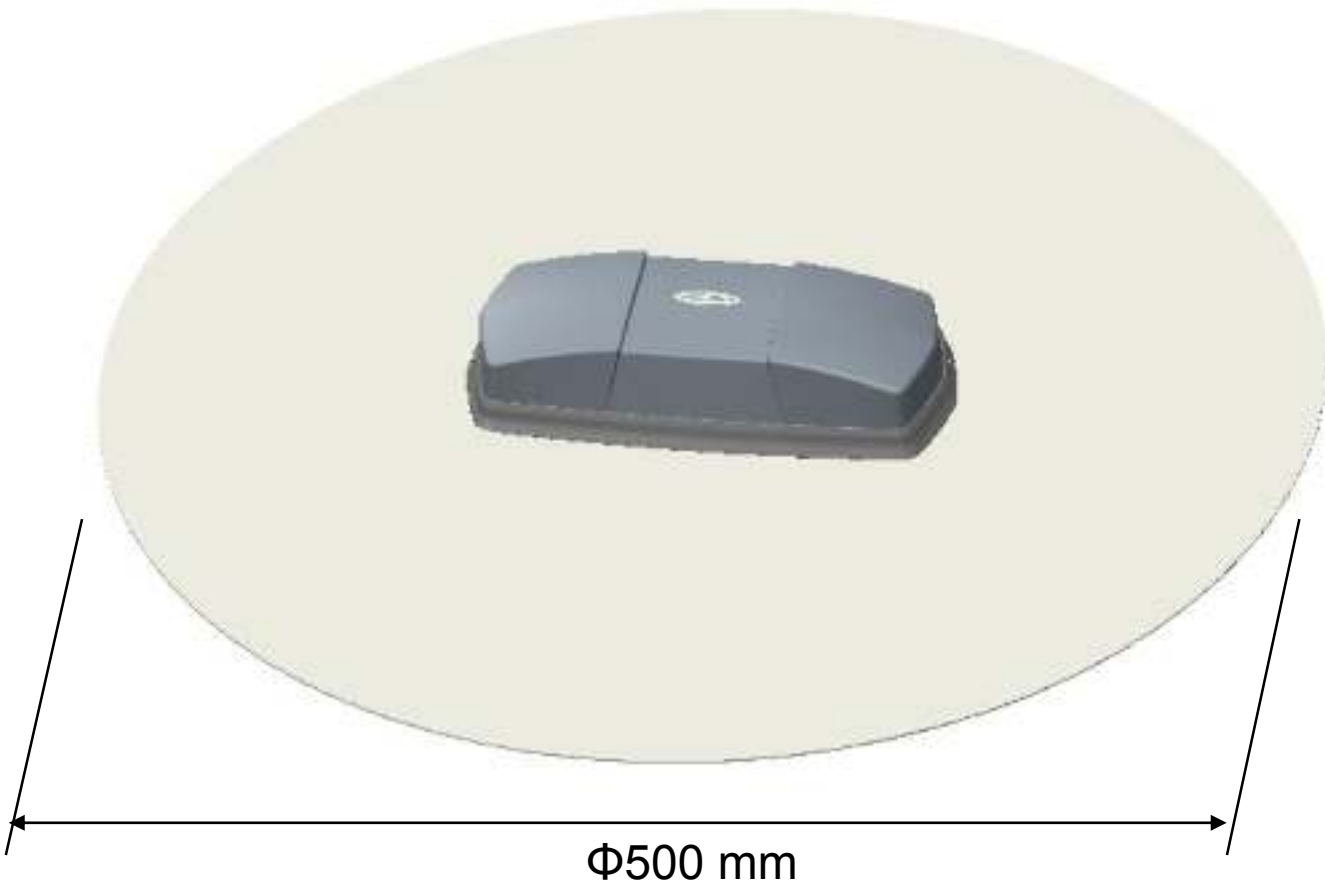
Series: ARMADILLO

Description: Vehicular Multiband Antenna with Adhesive Mount

PART NUMBER: ARMXXXXXAM

TEST SETUP

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



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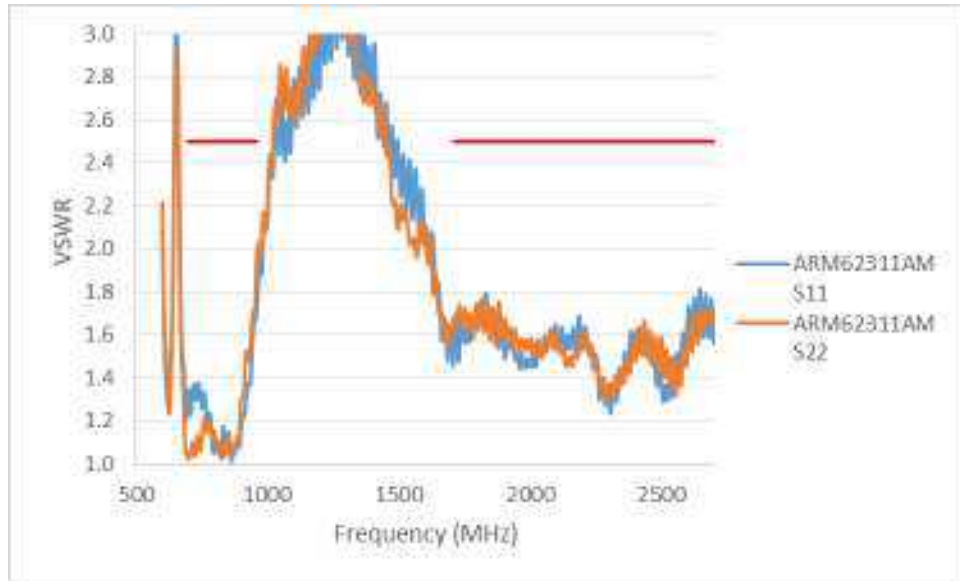
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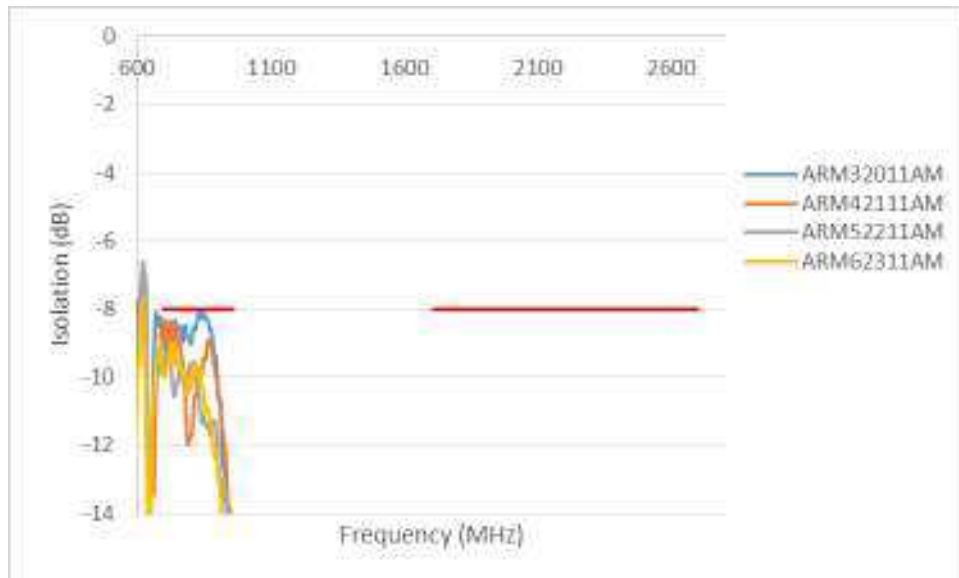
PART NUMBER: ARMXXXXXAM

CHARTS

VSWR (LTE)



Isolation (LTE)



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

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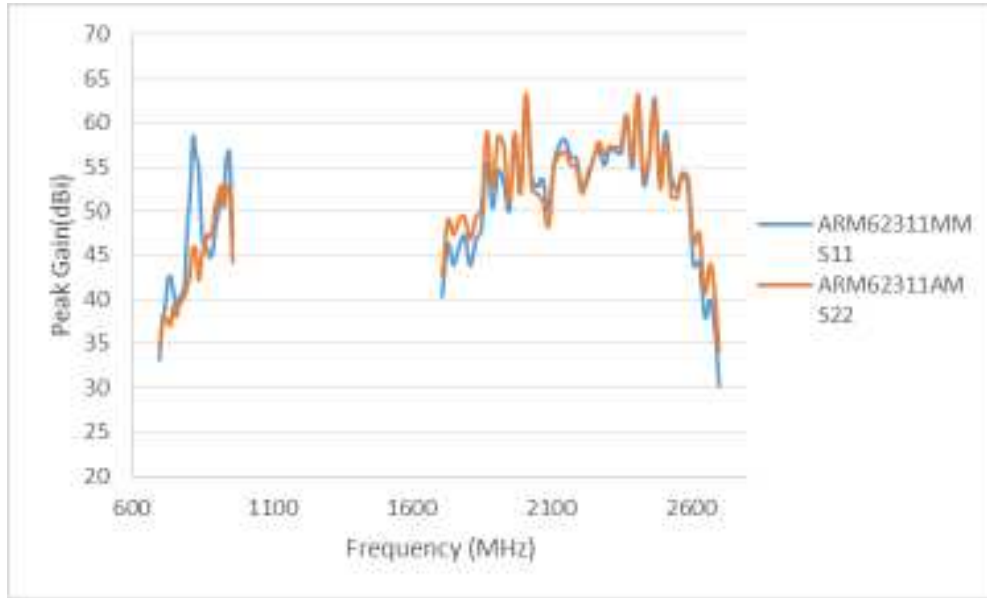
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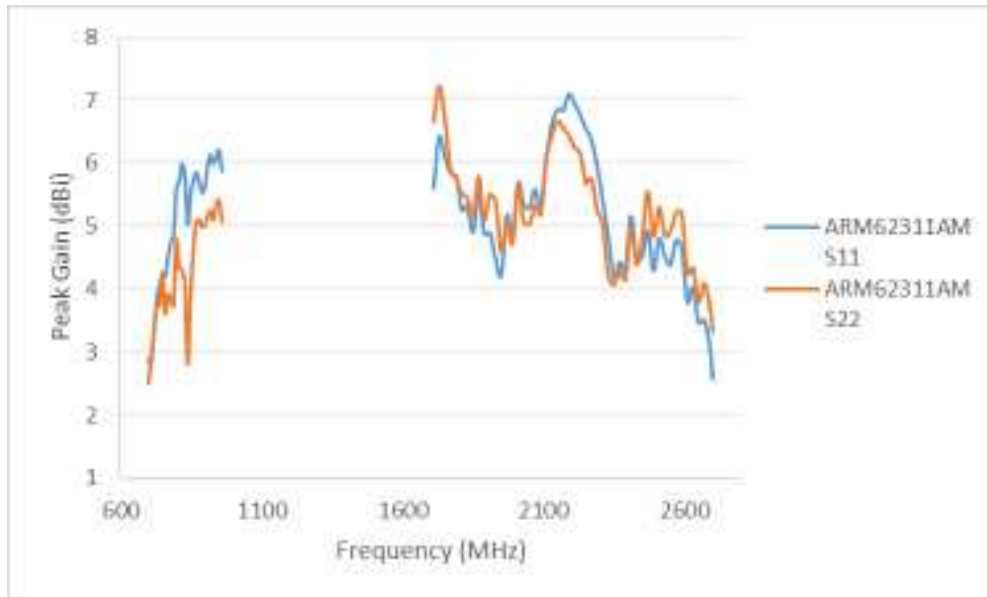
PART NUMBER: ARMXXXXXAM

CHARTS

Radiation Efficiency (LTE)



Peak Gain (LTE)



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

Issue: 1804P

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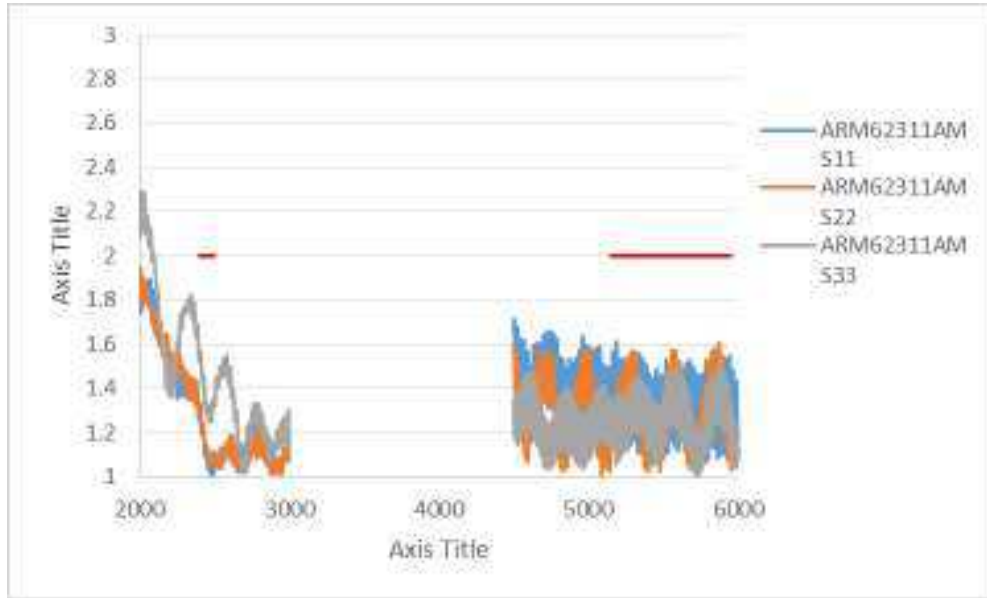
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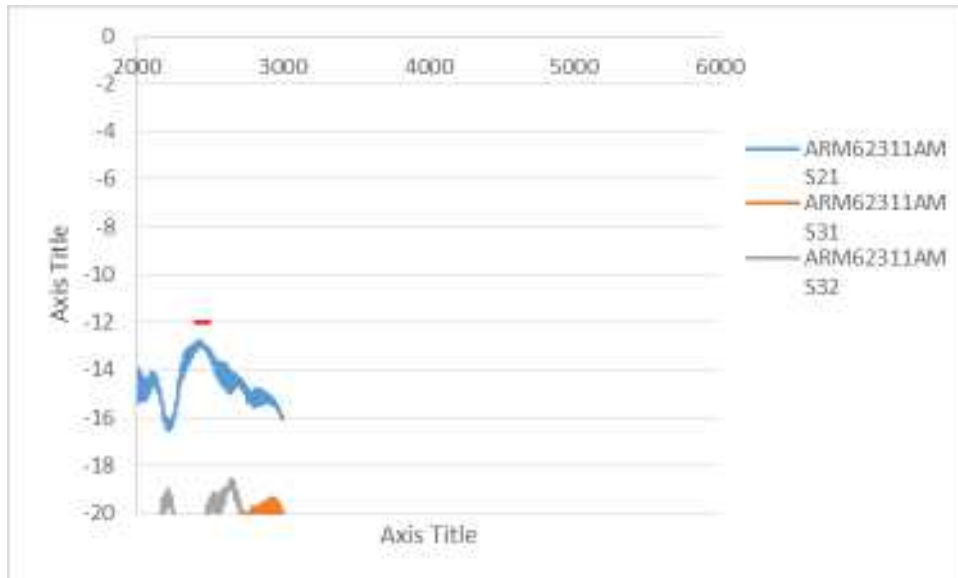
PART NUMBER: ARMXXXXXAM

CHARTS

VSWR (WIFI)



Isolation (WIFI)



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

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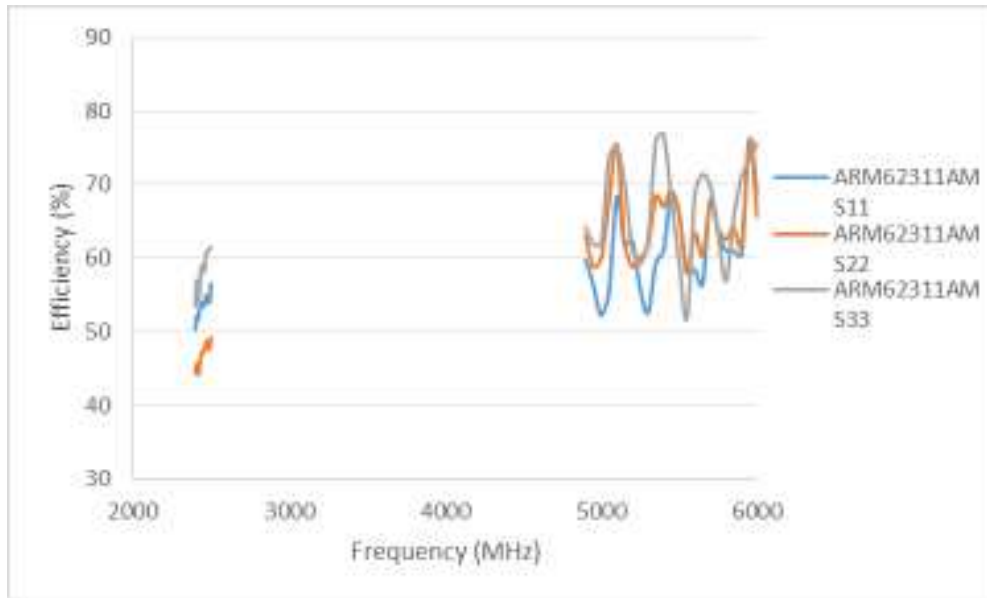
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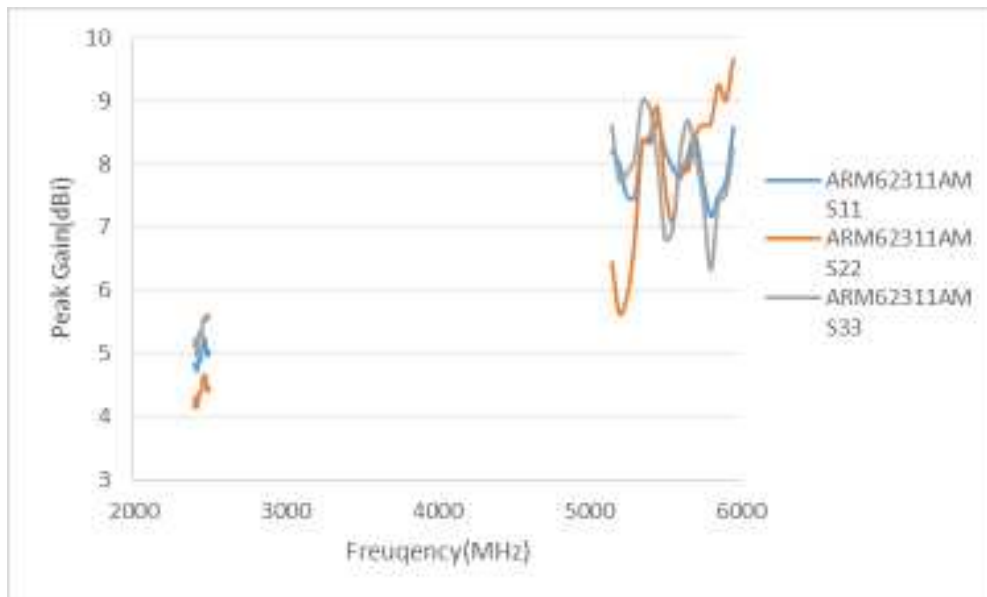
**PART NUMBER:** ARMXXXXXAM

**CHARTS**

**Radiation Efficiency (WIFI)**



**Peak Gain (WIFI)**



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

Preliminary

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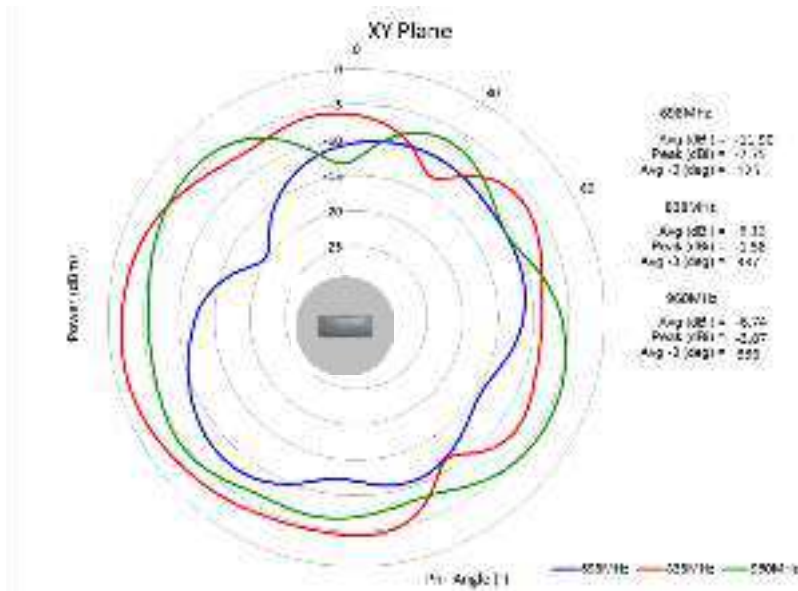
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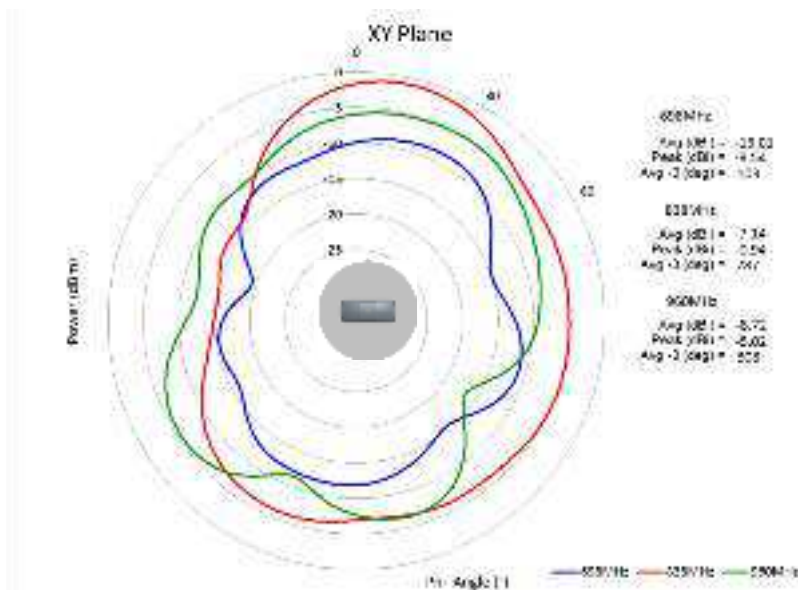
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PART NUMBER: ARMXXXXXAM

CHARTS



LTE1 XY plane radiation pattern



LTE2 XY plane radiation pattern

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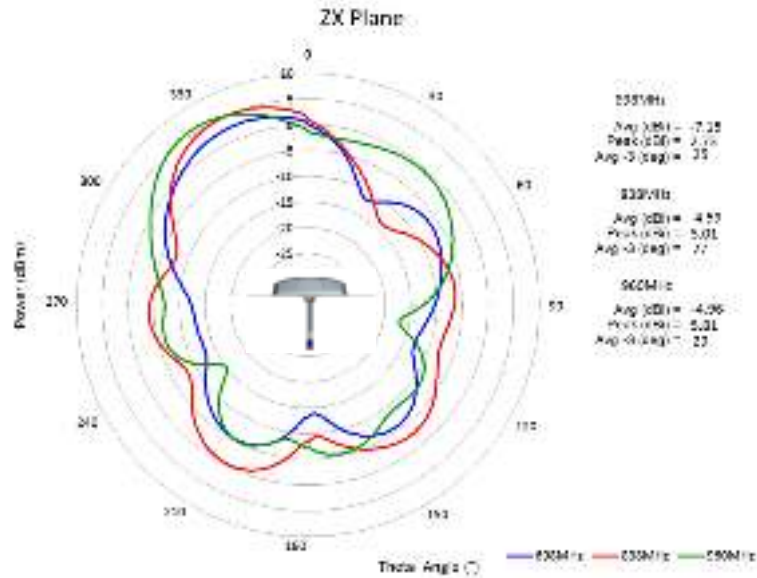
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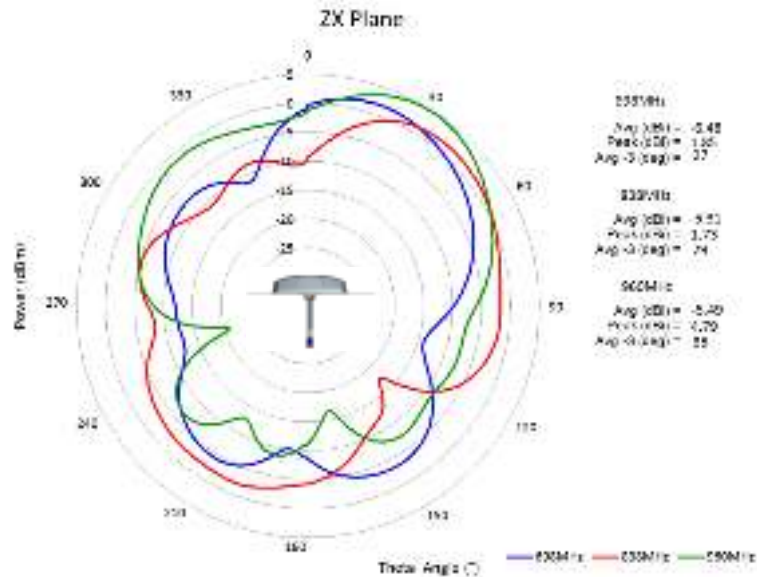
**Series:** ARMADILLO

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CHARTS



LTE1 ZX plane radiation pattern



LTE2 ZX plane radiation pattern

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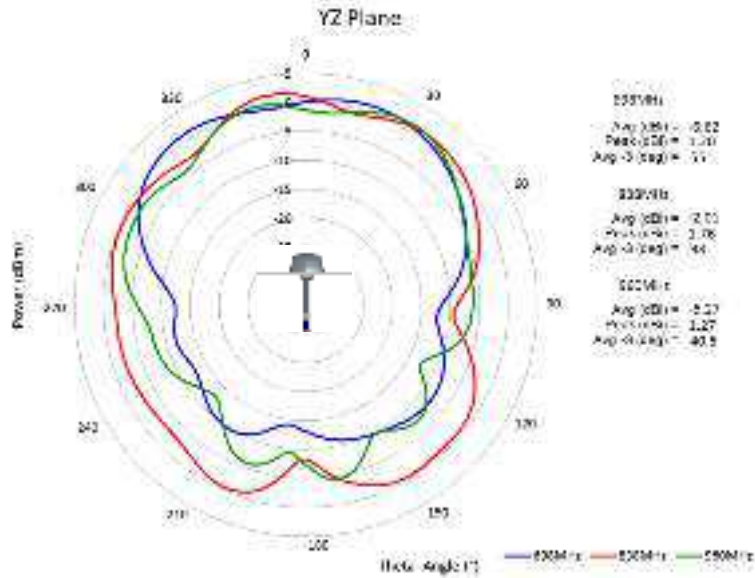
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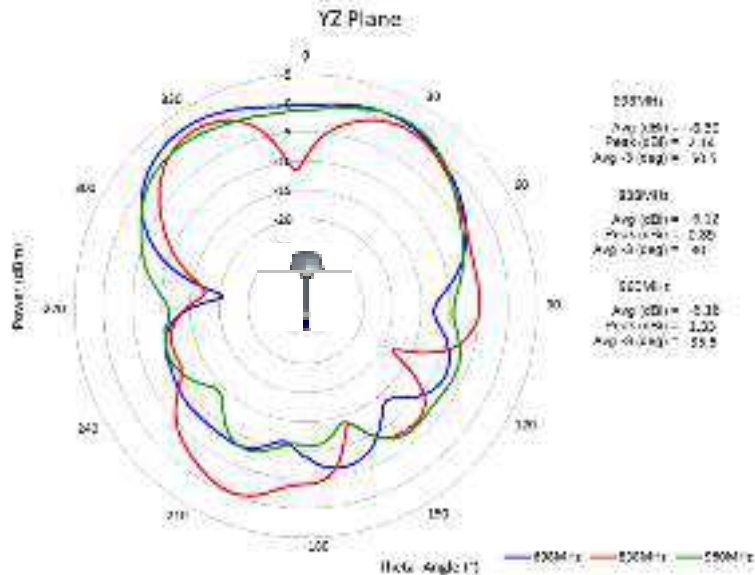
**Series:** ARMADILLO

**PART NUMBER:** ARMXXXXXAM

CHARTS



LTE1 YZ plane radiation pattern



LTE2 YZ plane radiation pattern

Preliminary

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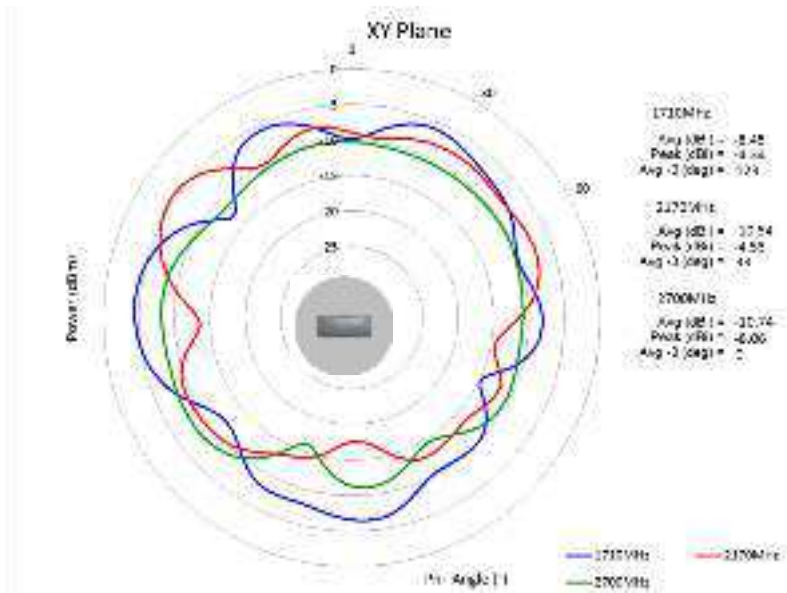


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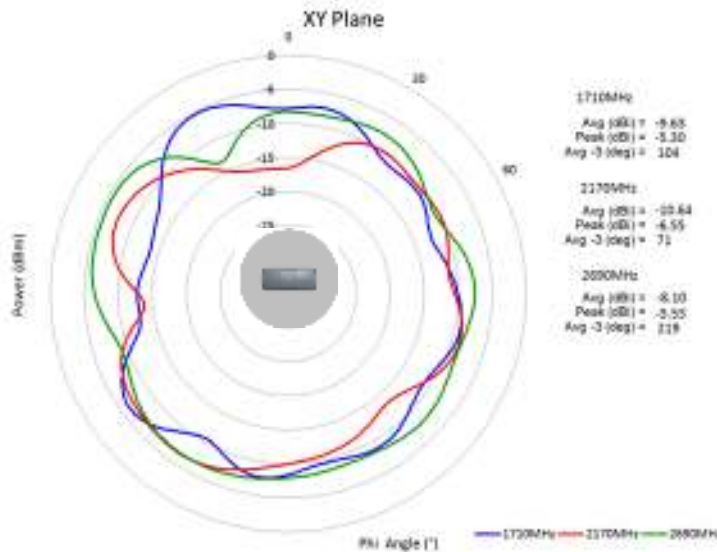
Description: Vehicular Multiband Antenna with Adhesive Mount

PART NUMBER: ARMXXXXXAM

CHARTS



LTE1 XY plane radiation pattern



LTE2 XY plane radiation pattern

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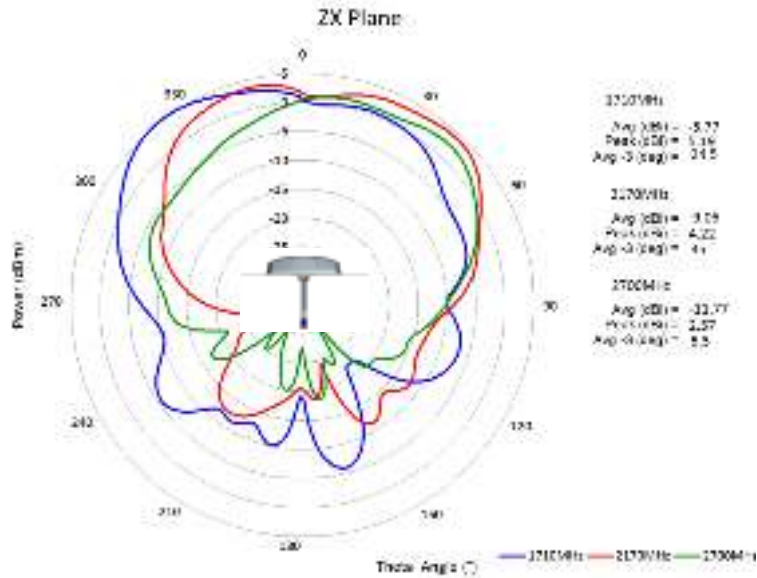


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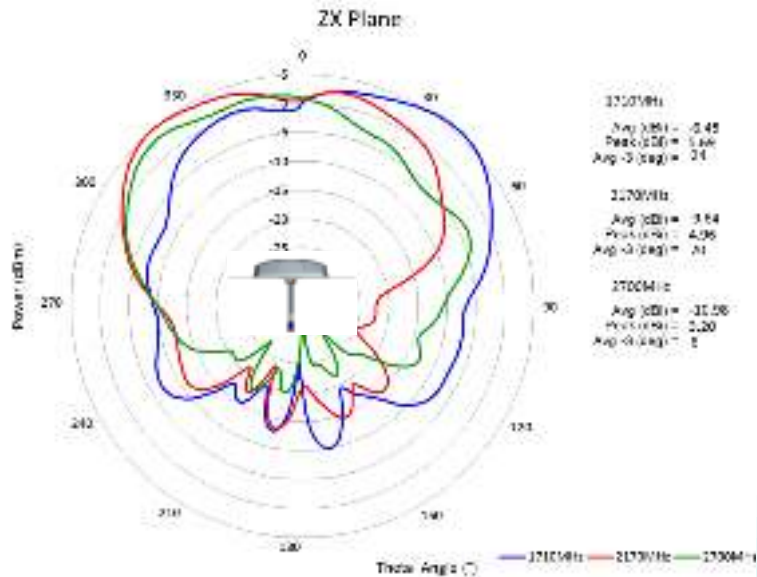
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PART NUMBER: ARMXXXXXAM

CHARTS



LTE1 ZX plane radiation pattern



LTE2 ZX plane radiation pattern

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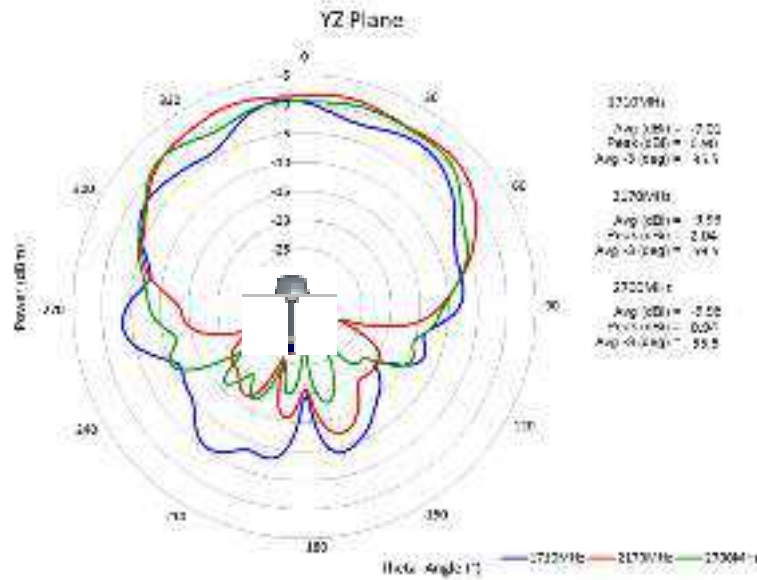


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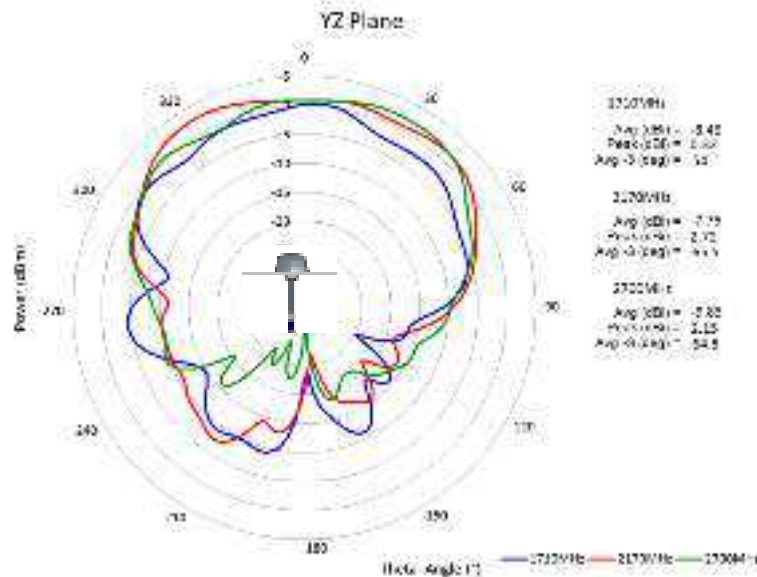
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**PART NUMBER:** ARMXXXXXAM

CHARTS



LTE1 YZ plane radiation pattern



LTE2 YZ plane radiation pattern

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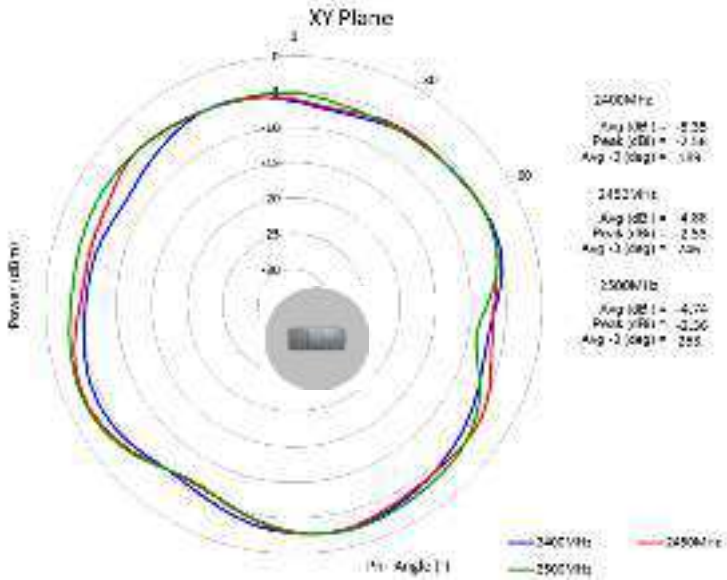
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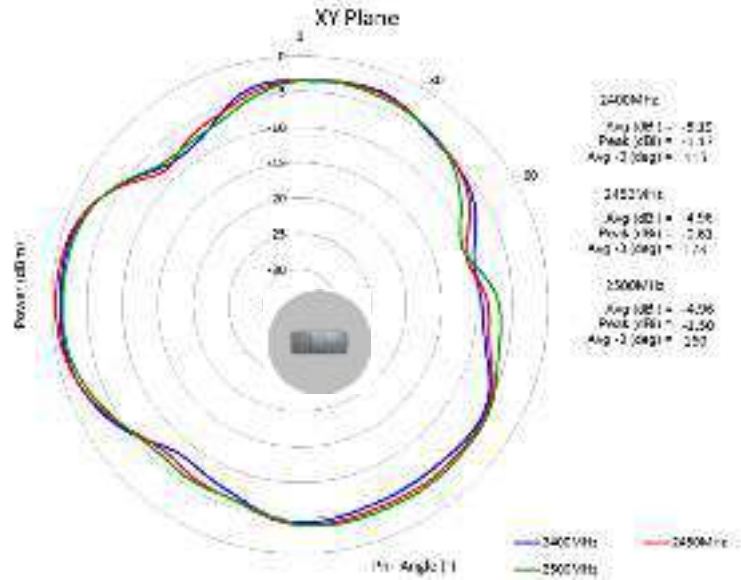
**Series:** ARMADILLO

**PART NUMBER:** ARMXXXXXAM

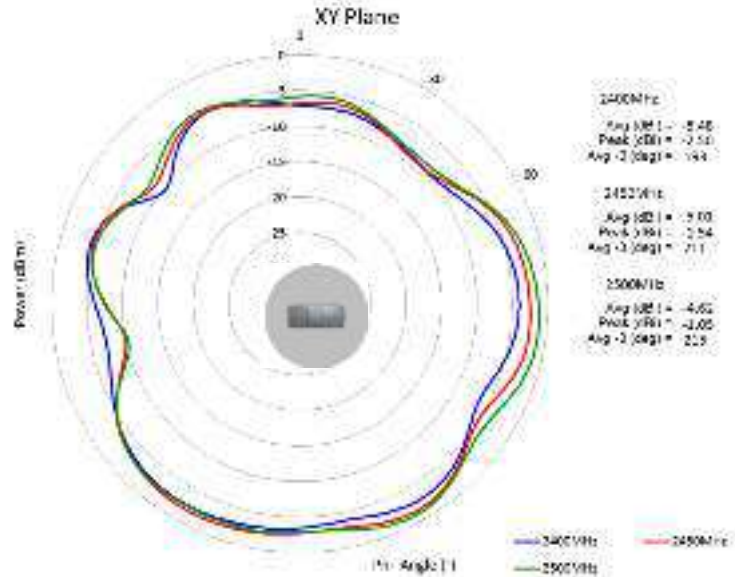
**CHARTS**



WiFi1 XY plane radiation pattern



WiFi2 XY plane radiation pattern



WiFi3 XY 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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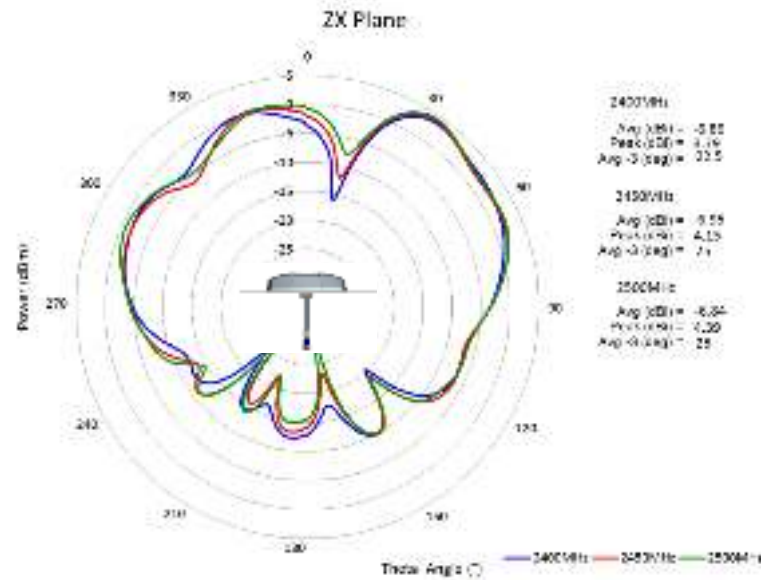
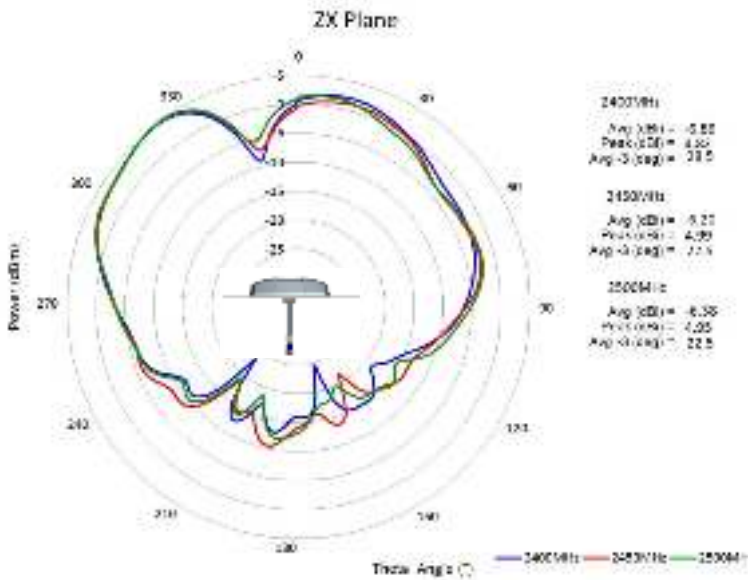
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**Description:** Vehicular Multiband Antenna with Adhesive Mount

**Series:** ARMADILLO

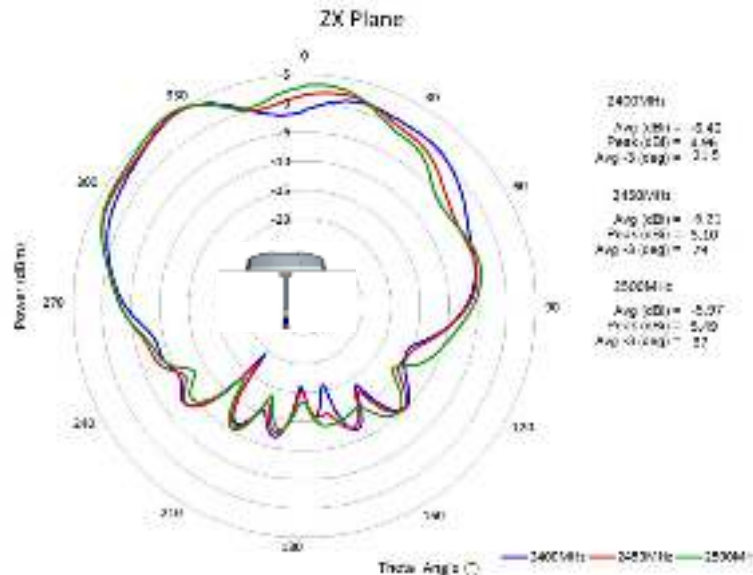
**PART NUMBER:** ARMXXXXXAM

CHARTS



WiFi1 ZX plane radiation pattern

WiFi2 ZX plane radiation pattern



WiFi3 ZX plane radiation pattern

Preliminary

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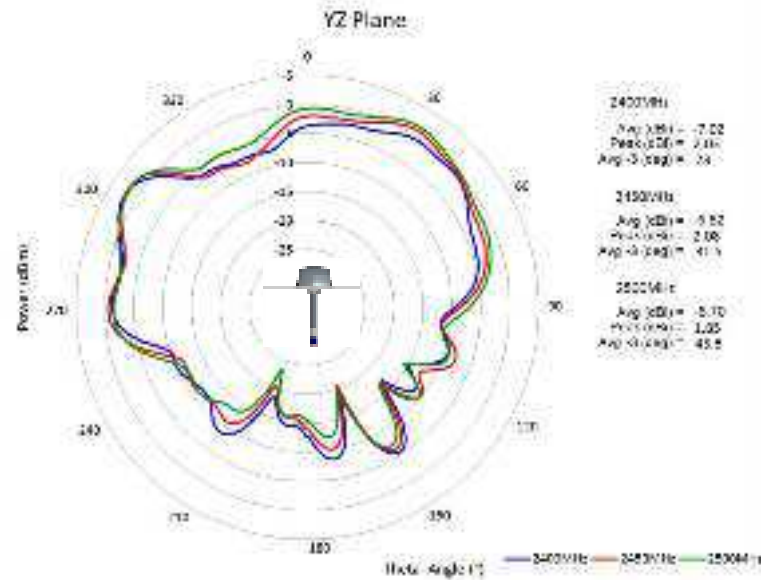
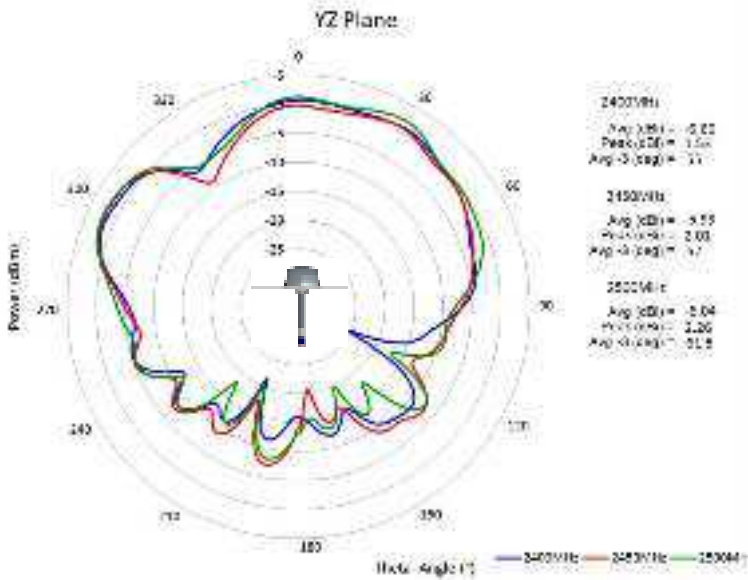
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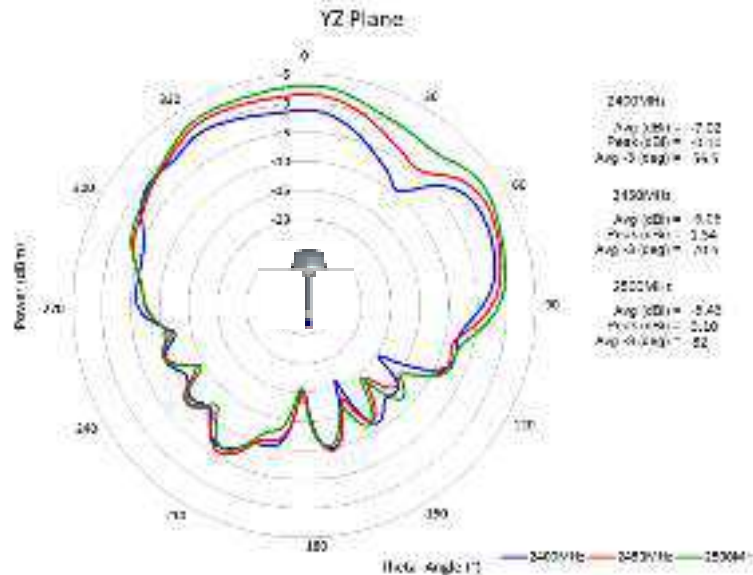
**PART NUMBER:** ARMXXXXAM

CHARTS



WiFi1 YZ plane radiation pattern

WiFi2 YZ plane radiation pattern



WiFi3 YZ plane radiation pattern

Preliminary

Issue: 1804P

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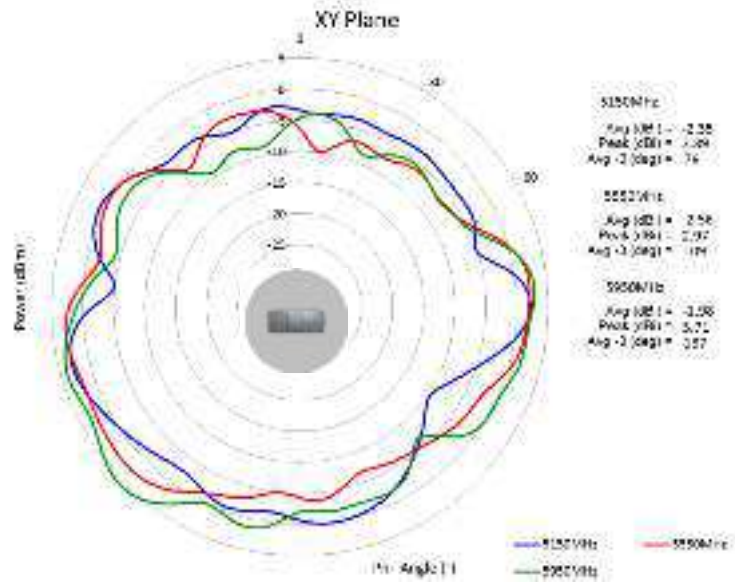
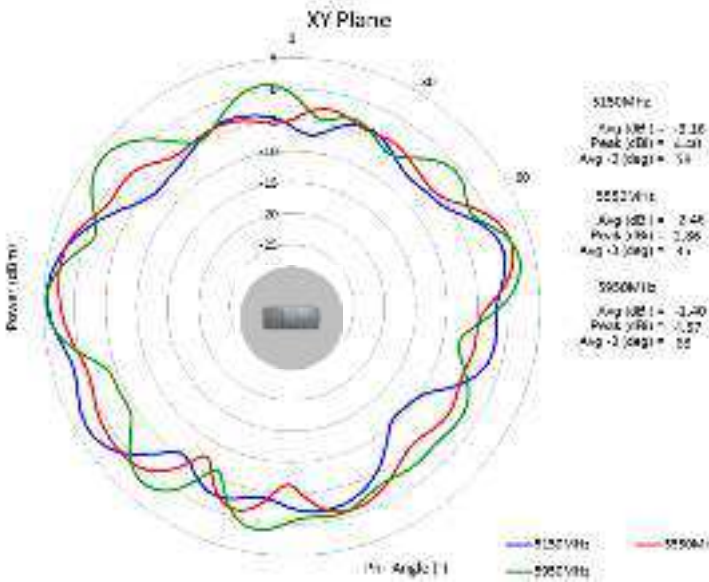
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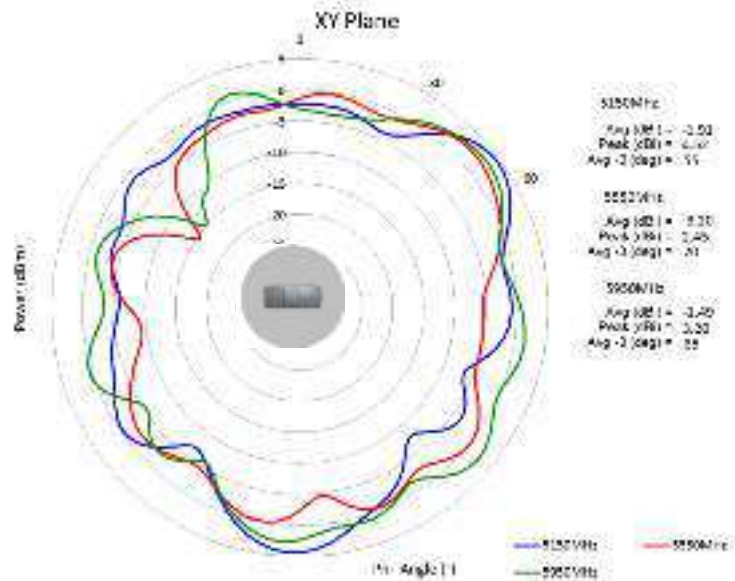
**PART NUMBER:** ARMXXXXXAM

CHARTS



WiFi1 XY plane radiation pattern

WiFi2 XY plane radiation pattern



WiFi3 XY plane radiation pattern

Preliminary

Issue: 1804P

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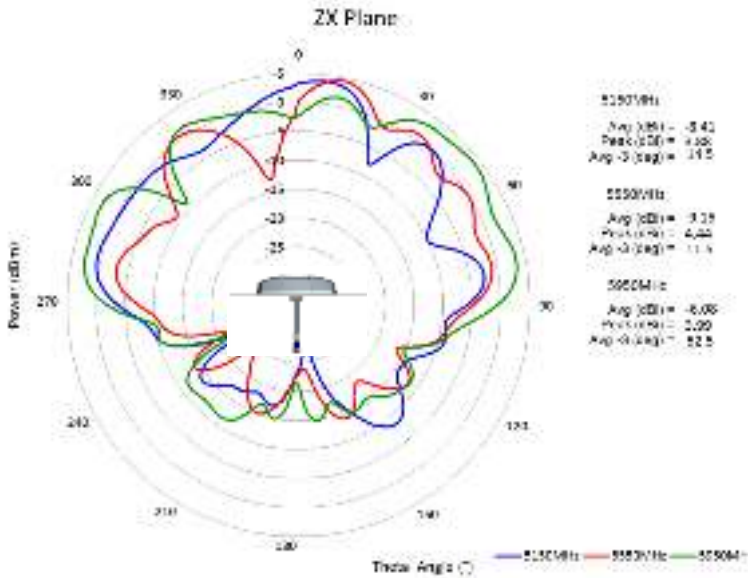
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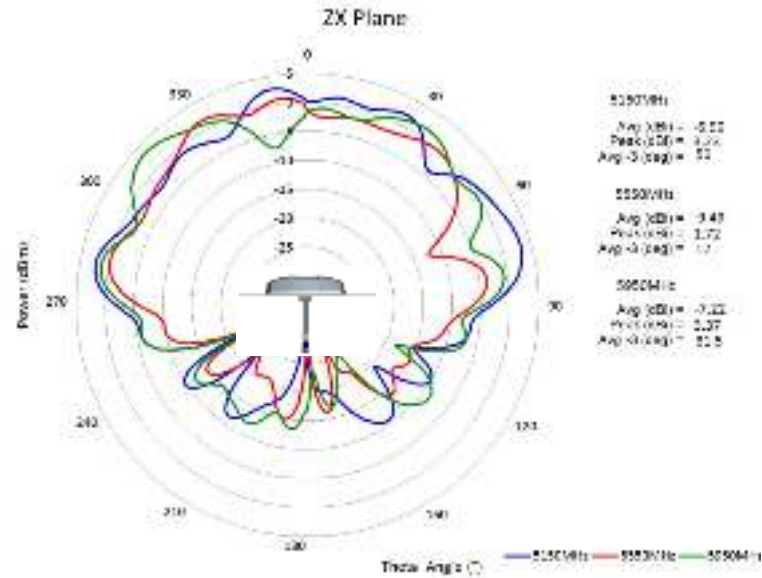
**Series:** ARMADILLO

**PART NUMBER:** ARMXXXXAM

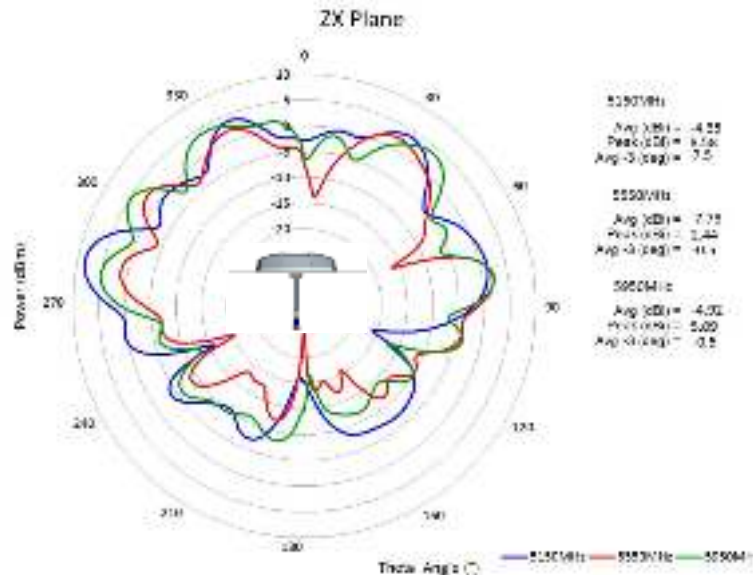
CHARTS



WiFi1 ZX plane radiation pattern



WiFi2 ZX plane radiation pattern



WiFi3 ZX plane radiation pattern

Preliminary

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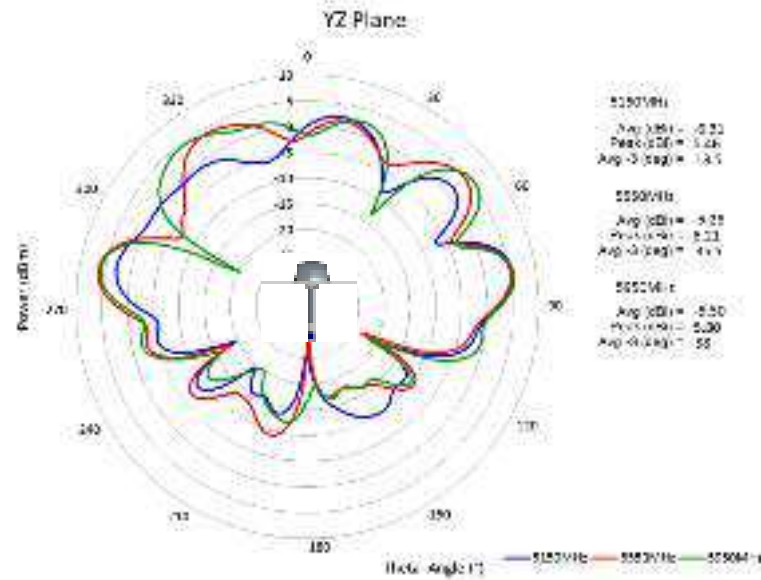
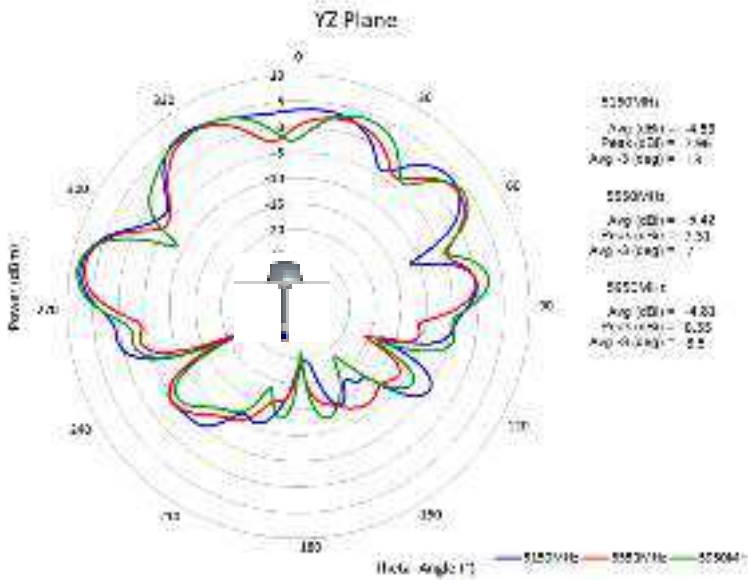


**Description:** Vehicular Multiband Antenna with Adhesive Mount

**Series:** ARMADILLO

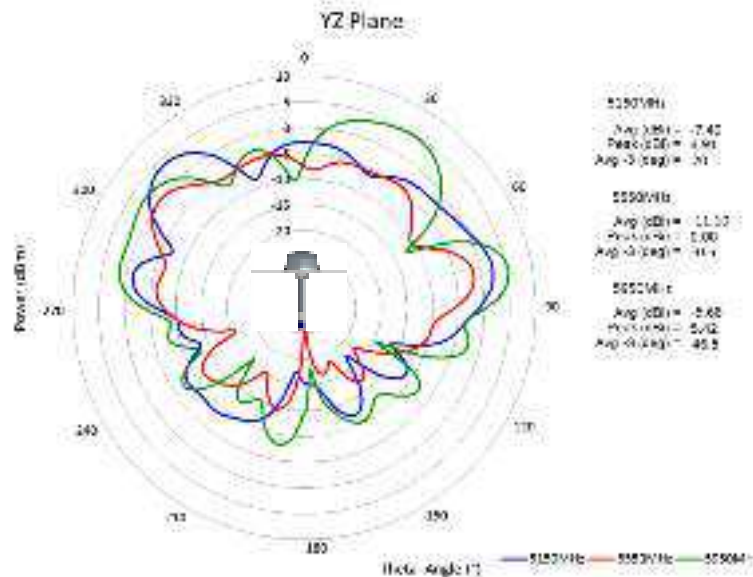
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CHARTS



WiFi1 YZ plane radiation pattern

WiFi2 YZ plane radiation pattern



WiFi3 YZ plane radiation pattern

Preliminary

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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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