

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

**PART NUMBER:** ARMXXXXMM



## 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
  - Magnetic mount
  - For direct mount seep/N: ARMXXXXDM

Issue: 1842

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For more information:

Pulse Worldwide Headquarters  
15255 Innovation Drive #100  
San Diego, CA 92128  
USA  
Tel:1-858-674-8100

Pulse/Larsen Antennas  
18110 SE 34<sup>th</sup> St Bldg 2 Suite 250  
Vancouver, WA 98683  
USA  
Tel: 1-360-944-7551

Europe Headquarters  
Pulse GmbH & Do, KG  
Zeppelinstrasse 15  
Herrenberg, Germany  
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.  
99 Huo Ju Road(#29 Bldg,4<sup>th</sup> Phase  
Suzhou New District  
Jiangsu Province, Suzhou 215009 PR China  
Tel: 86 512 6807 9998



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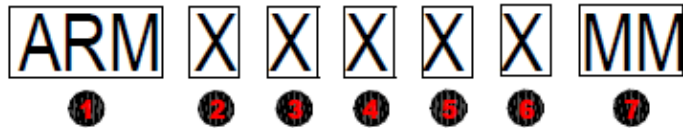
This document covers all product variants of the following product family

| Product    | Total Cable Leads | LTE Cable Leads | WiFi Cable Leads | GPS Cable Leads | Housing Color | Mounting   |
|------------|-------------------|-----------------|------------------|-----------------|---------------|--|
| ARM62311MM | 6                 | 2               | 3                | 1               | Black         | Magnetic Mount;<br>Pull force:<br>100N, 22lbf min.<br>(Tested on 3mm thick steel plate.) |
| ARM62312MM | 6                 | 2               | 3                | 1               | White         |  |
| ARM52211MM | 5                 | 2               | 2                | 1               | Black         |  |
| ARM52212MM | 5                 | 2               | 2                | 1               | White         |  |
| ARM42111MM | 4                 | 2               | 1                | 1               | Black         |  |
| ARM42112MM | 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: Magnetic Mount                              |

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

\* or equivalent

Issue: 1.0-2

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**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               | <2.5   |
| 5150-5925MHz               | <2.5   |
| Isolation*                 |  |
| 698-960MHz, 1710-2690MHz   | -8dB   |
| 2400-2500MHz, 5150-5925MHz | -12dB  |
| Radiation Pattern          | Omni   |
| Average Peak Gain**        |  |
| 698-960MHz                 | 4.6dBi   |
| 1710-2690MHz               | 5dBi   |
| 2400-2500MHz               | 4.1dBi   |
| 5150-5925MHz               | 6.3dBi   |
| Polarization               | Vertical   |

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

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

Series: ARMADILLO

**Description:** Vehicular Multiband Antenna with  
Magnetic Mount**PART NUMBER:** ARMXXXXMM**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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### MECHANICAL SPECIFICATIONS

|                          |                         |
|--------------------------|-------------------------|
| Overall Length           | 202.3mm X 88.5mm X 45mm |
| Weight                   | 1.1 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

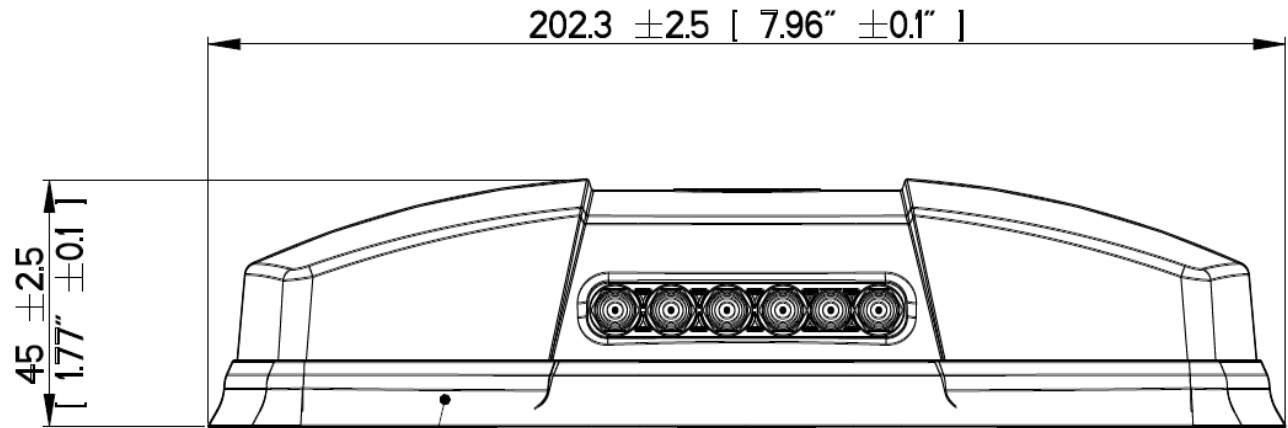
|   |       |
|---|-------|
| Total cable assembly loss for 5.2m (17') LMR-195 @850MHz  | 2.1dB |
| Total cable assembly loss for 5.2m (17') LMR-100 @1575MHz | 5.9dB |
| Total cable assembly loss for 5.2m (17') LMR-195 @1930MHz | 3.2dB |
| Total cable assembly loss for 5.2m (17') LMR-195 @2450MHz | 3.6dB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

Series: ARMADILLO

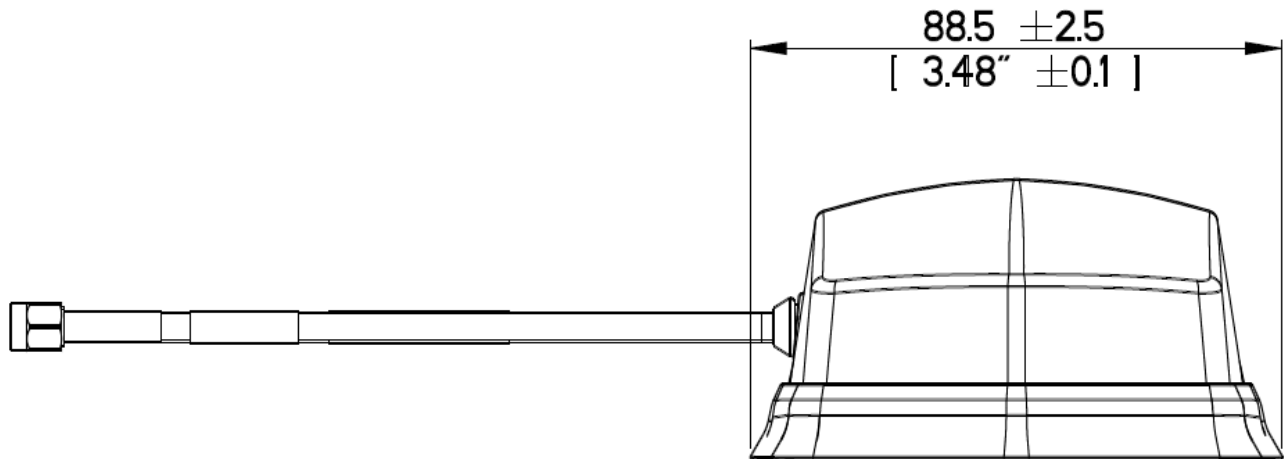
Description: Vehicular Multiband Antenna with  
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MECHANICAL DRAWING



Rubber Gasket



Issue: 1842

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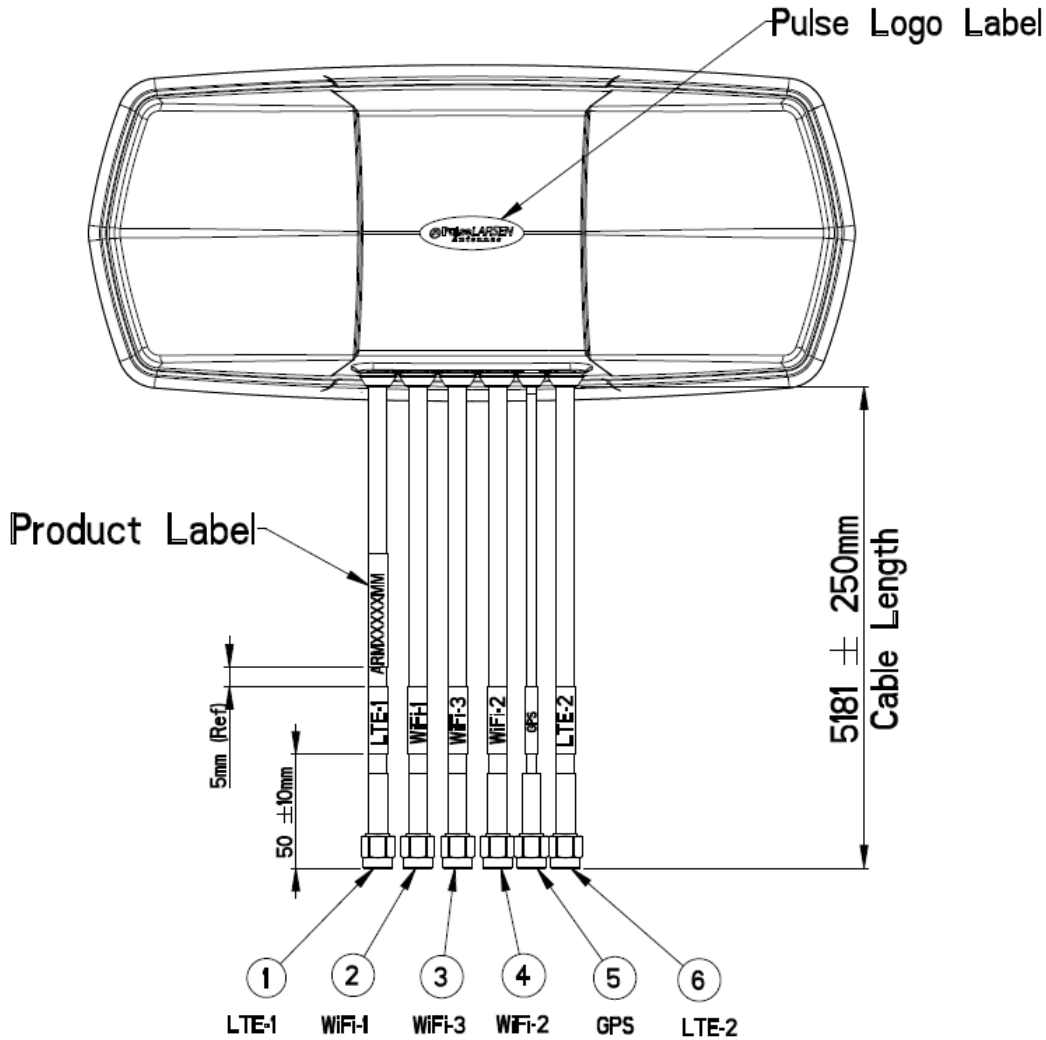
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**MECHANICAL DRAWING**



|   | ARMXXXXXMM        | CABLE     | CABLE LENGTH                 | CONNECTOR   |
|---|-------------------|-----------|------------------------------|-------------|
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| 4 | WiFi-2 Cable Assy |           |                              | RP-SMA Male |
| 5 | GPS Cable Assy    | LMR-100 * |                              | SMA Male    |
| 6 | LTE-2 Cable Assy  | LMR-195 * |                              | SMA Male    |

Issue: 1:

\* or equivalent

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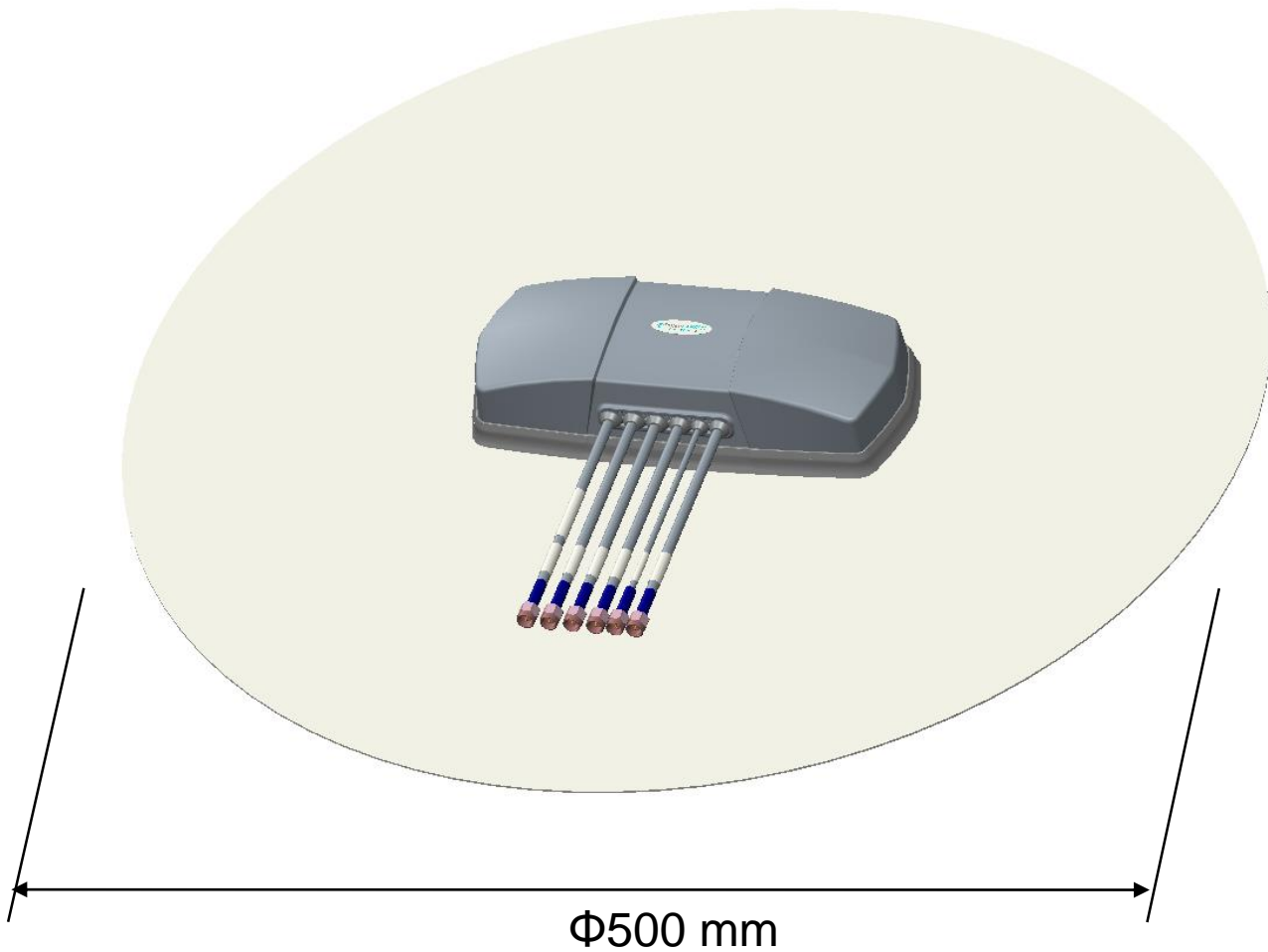
Series: ARMADILLO

Description: Vehicular Multiband Antenna with  
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TEST SETUP

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





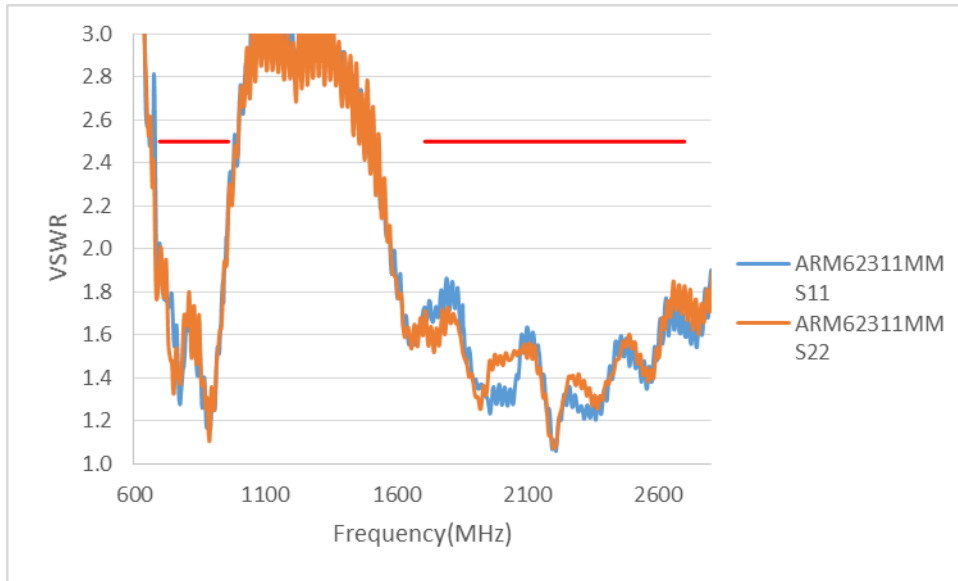
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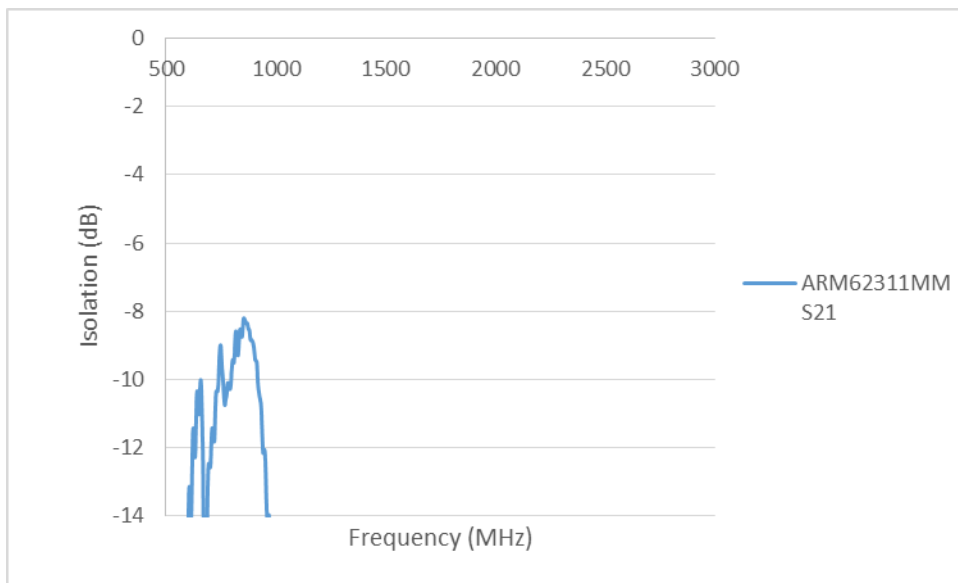
**PART NUMBER:** ARMXXXXMM

**CHARTS**

**VSWR (LTE)**



**Isolation (LTE)**



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

Issue: 1842

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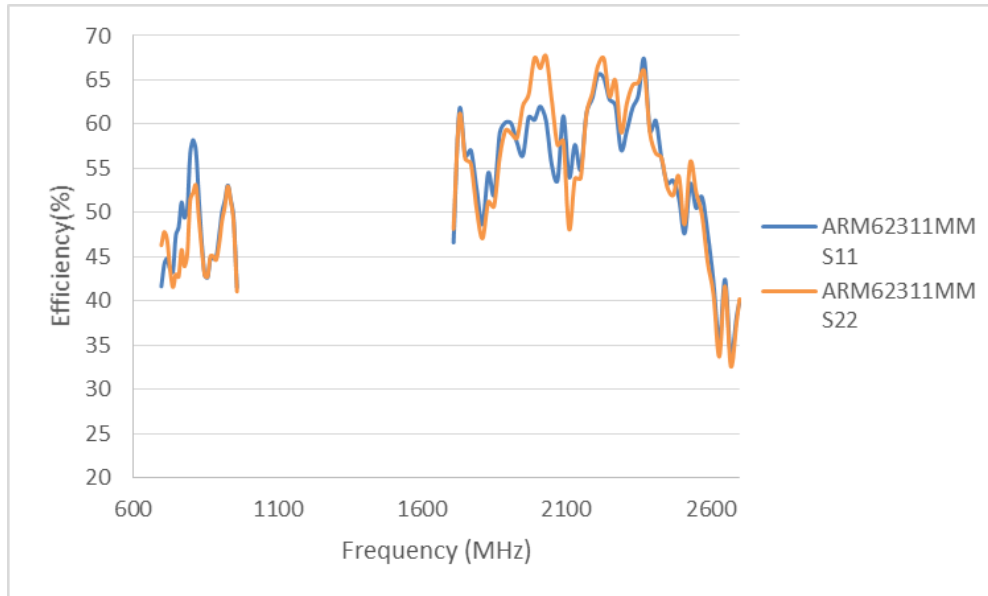
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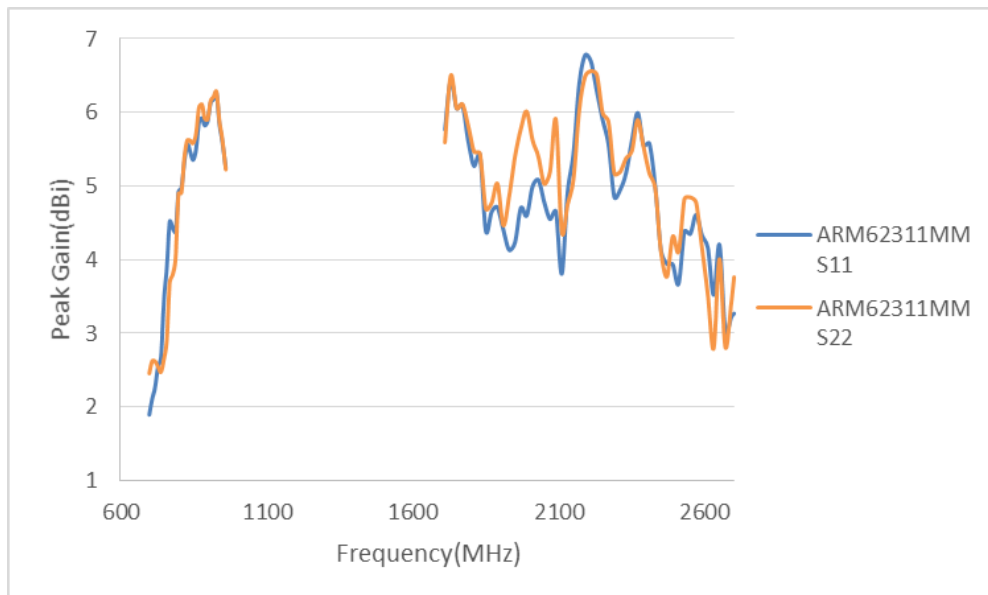
**PART NUMBER:** ARMXXXXMM

**CHARTS**

**Radiation Efficiency (LTE)**



**Peak Gain (LTE)**



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

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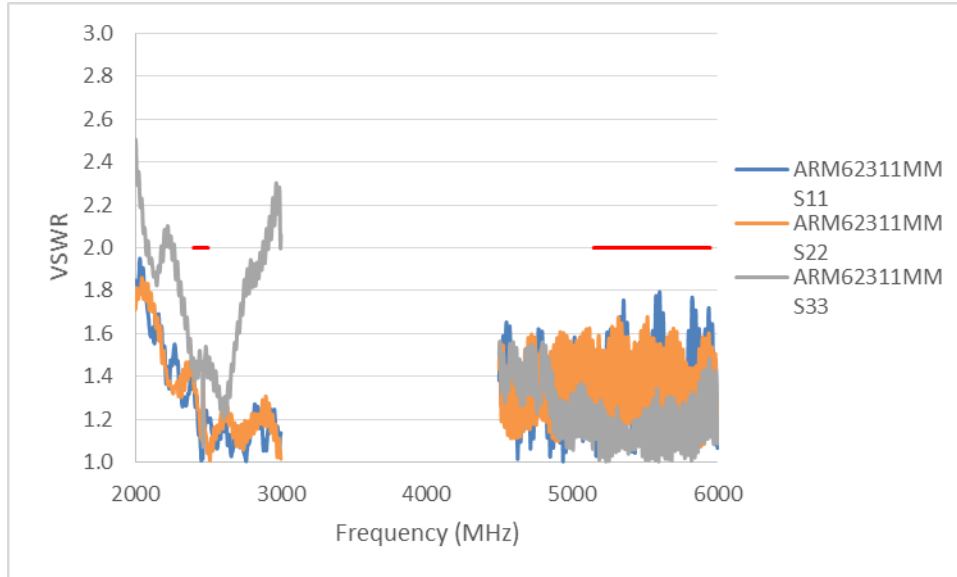
Series: ARMADILLO

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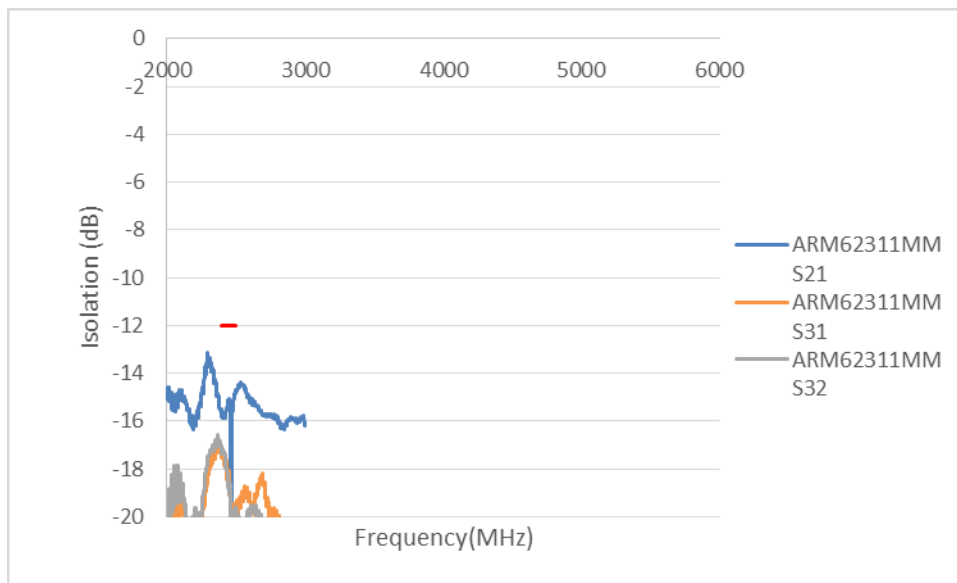
PART NUMBER: ARMXXXXXMM

CHARTS

VSWR (WIFI)



Isolation (WIFI)



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

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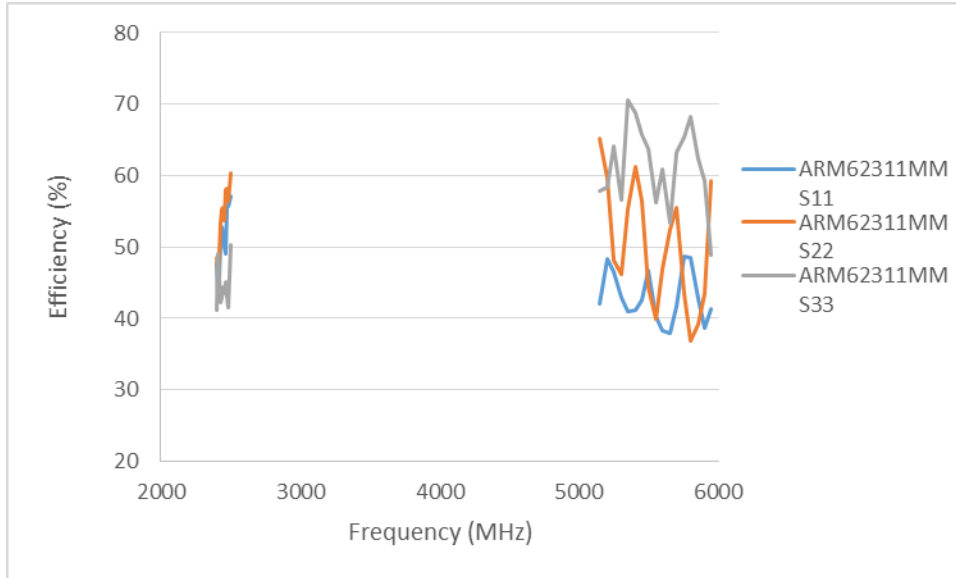
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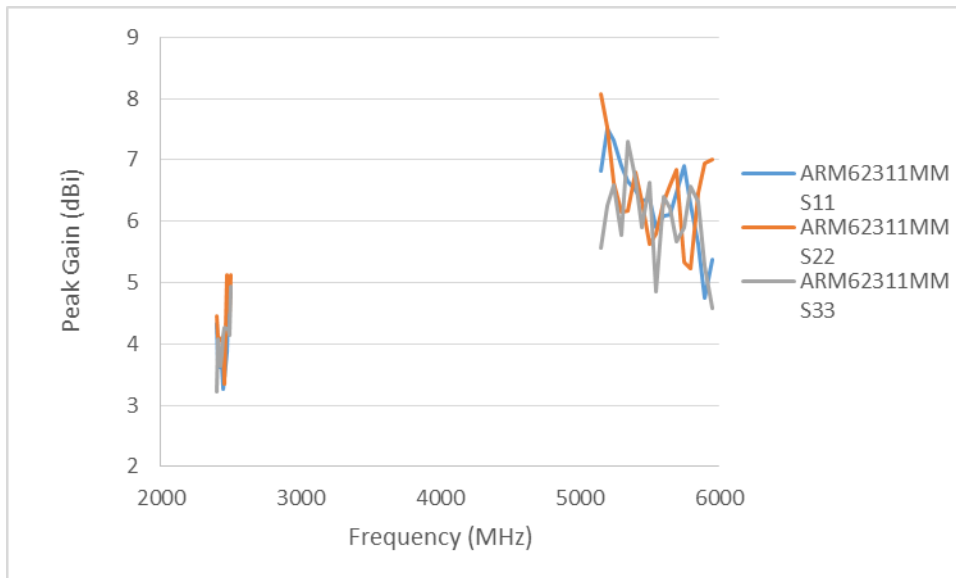
**PART NUMBER:** ARMXXXXMM

**CHARTS**

**Radiation Efficiency (WIFI)**



**Peak Gain (WIFI)**



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

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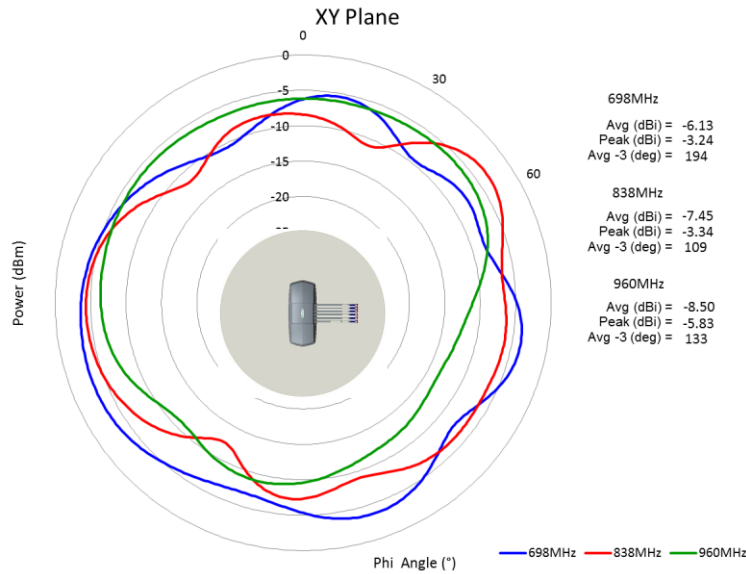
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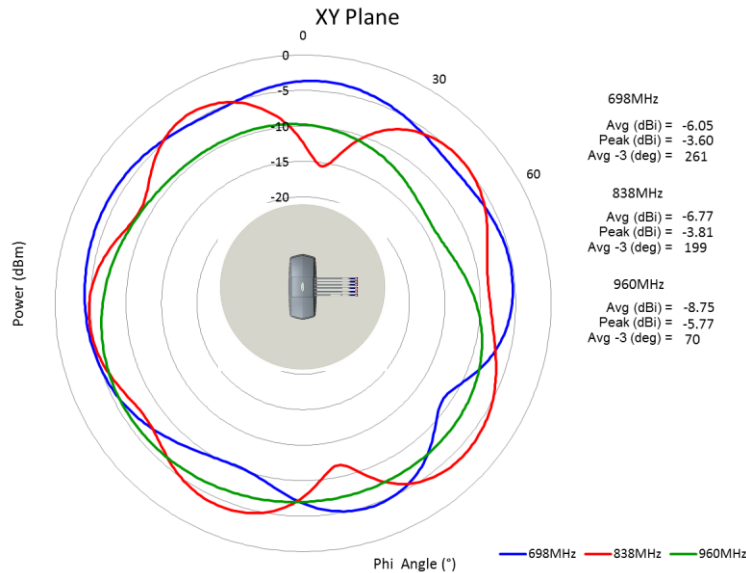
**Series:** ARMADILLO

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CHARTS



LTE1 XY plane radiation pattern



LTE2 XY plane radiation pattern

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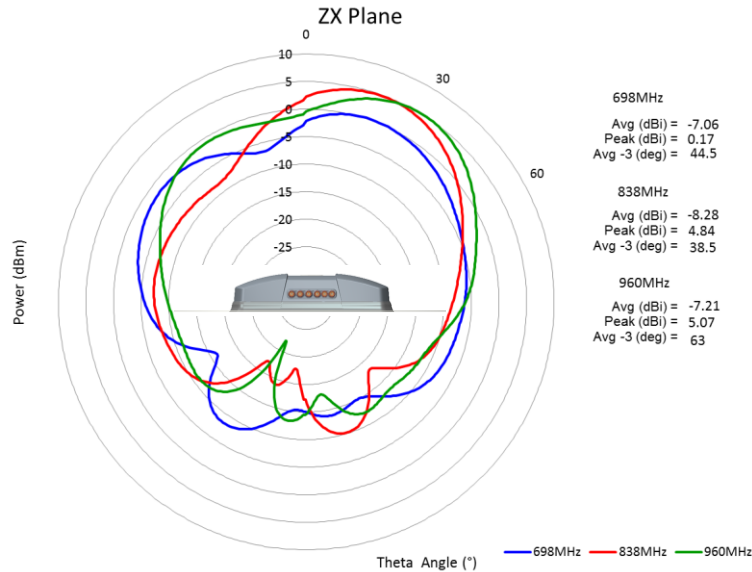
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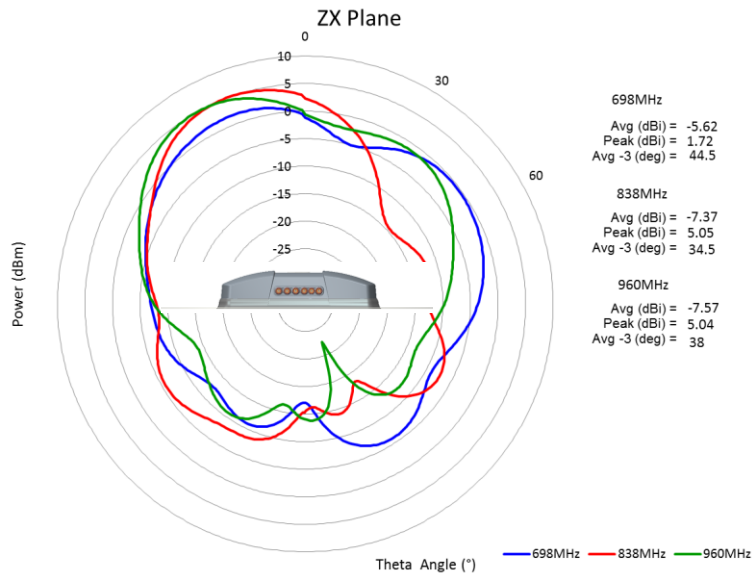
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CHARTS



LTE1 ZX plane radiation pattern



LTE2 ZX plane radiation pattern

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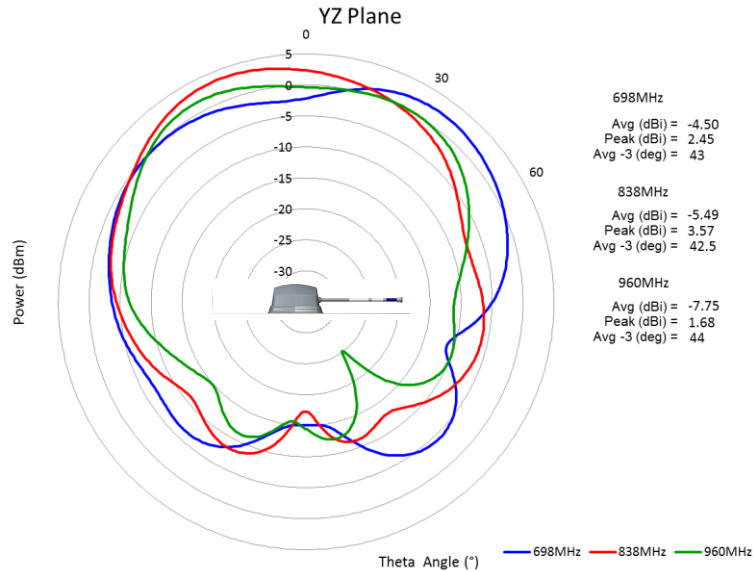
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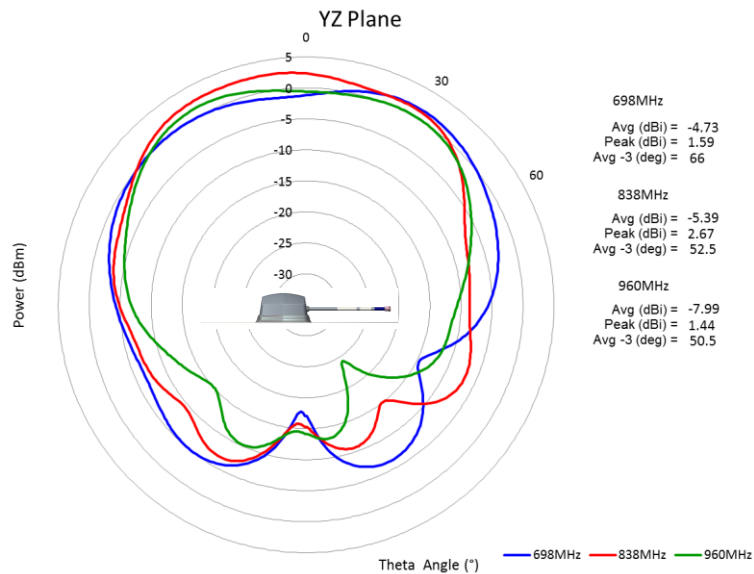
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CHARTS



LTE1 YZ plane radiation pattern



LTE2 YZ plane radiation pattern

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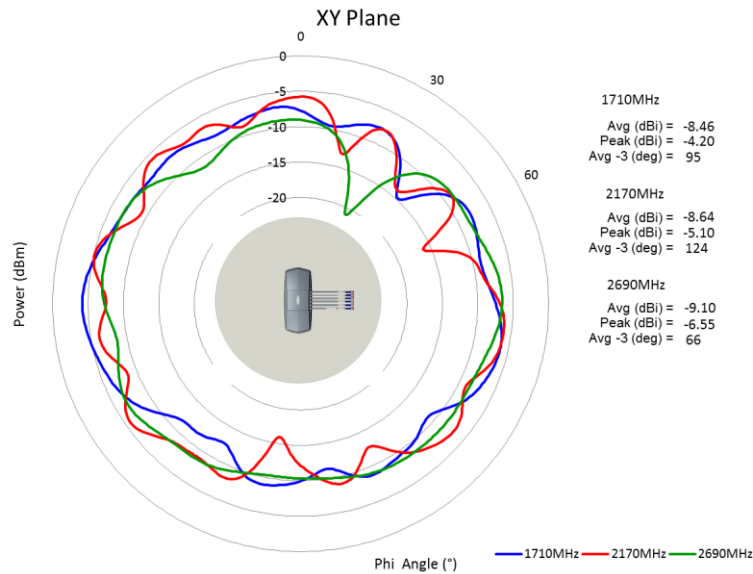
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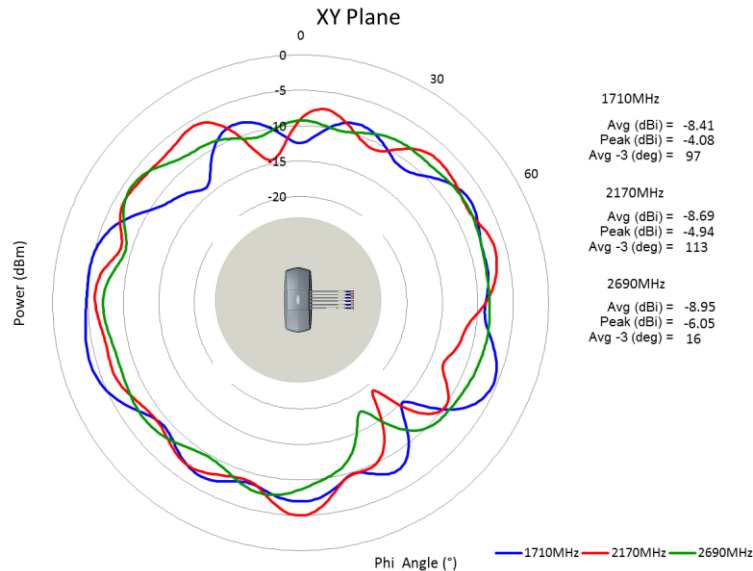
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CHARTS



LTE1 XY plane radiation pattern



LTE2 XY plane radiation pattern

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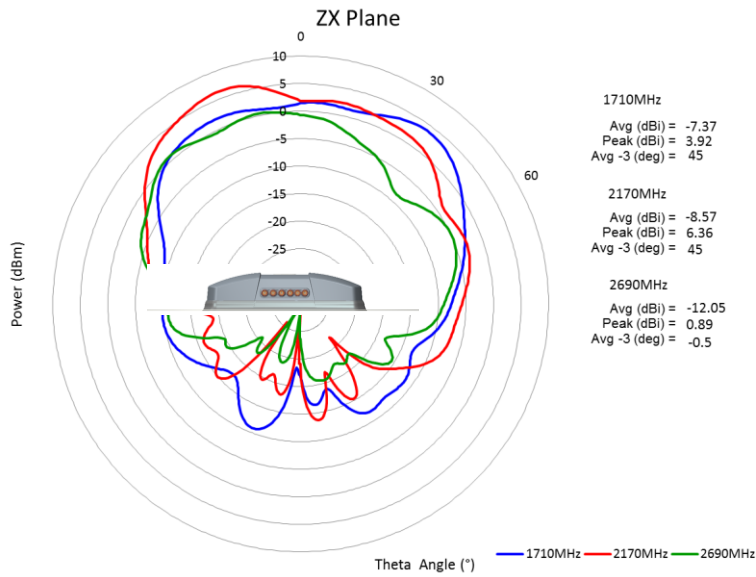


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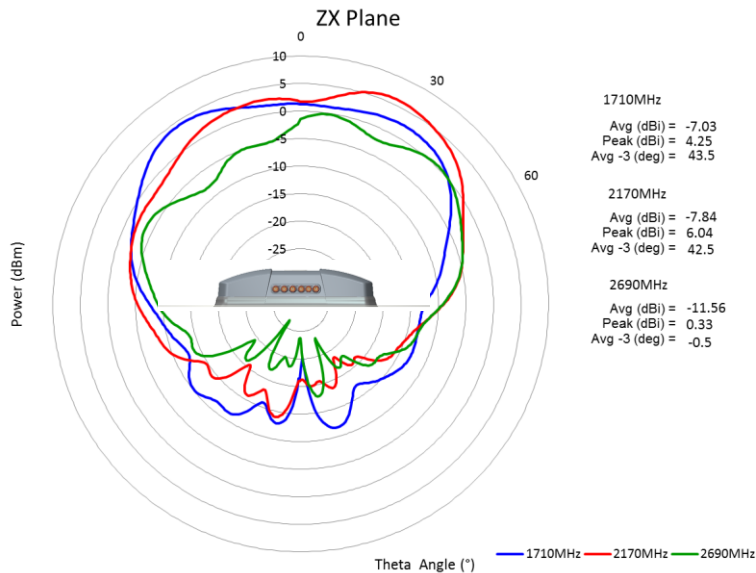
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CHARTS



LTE1 ZX plane radiation pattern



LTE2 ZX plane radiation pattern

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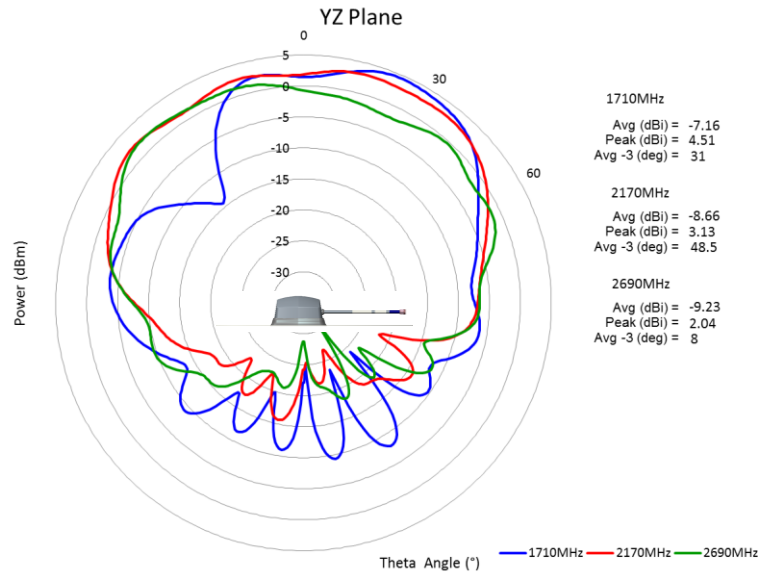
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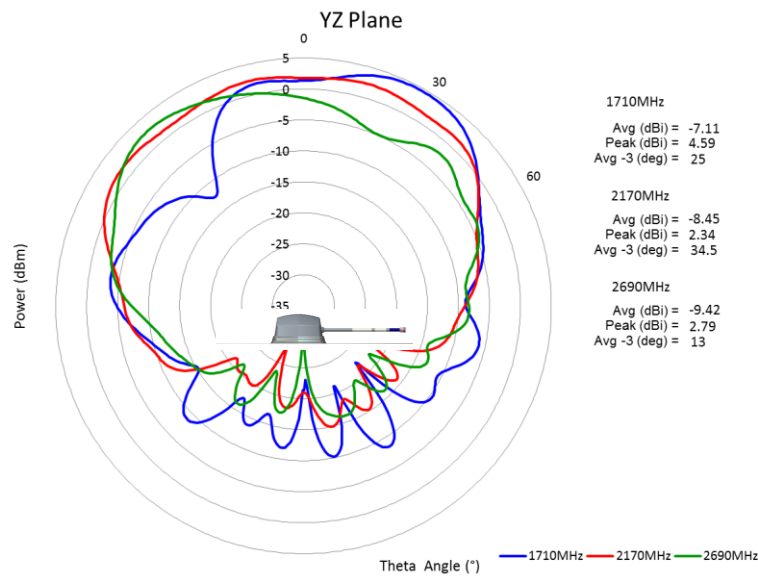
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LTE1 YZ plane radiation pattern



LTE2 YZ plane radiation pattern

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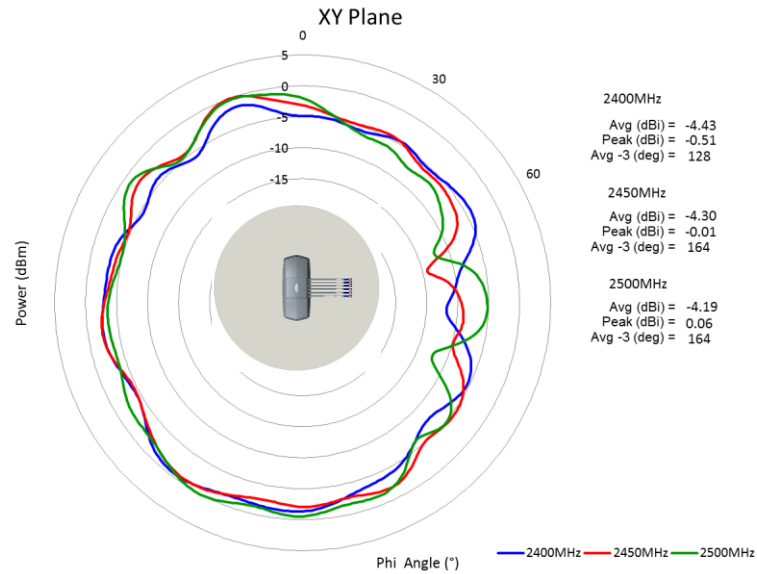
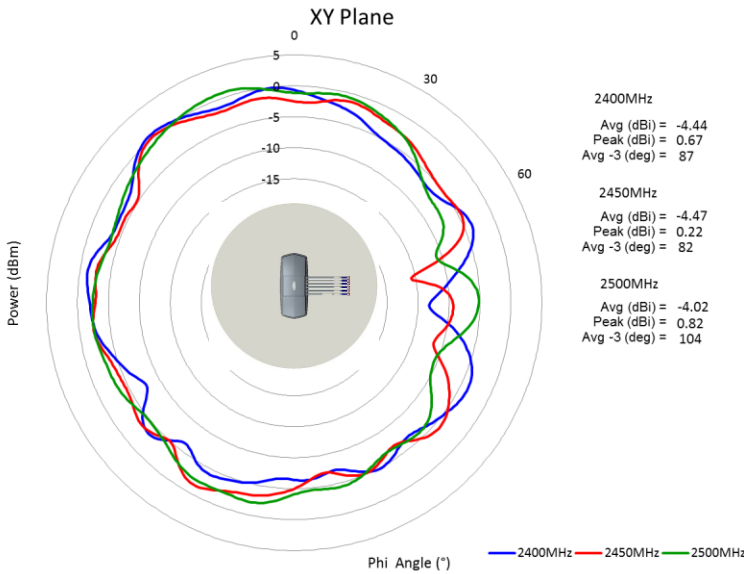
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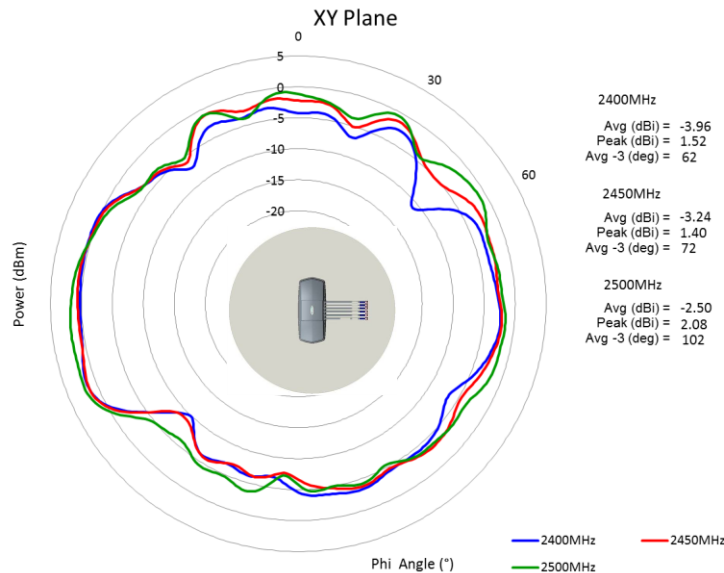
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CHARTS



WiFi1 XY plane radiation pattern

WiFi2 XY plane radiation pattern



WiFi3 XY plane radiation pattern

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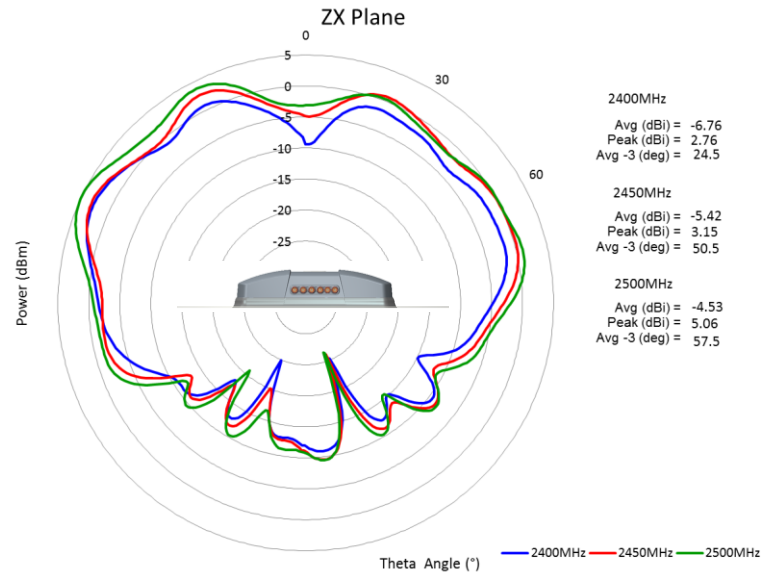
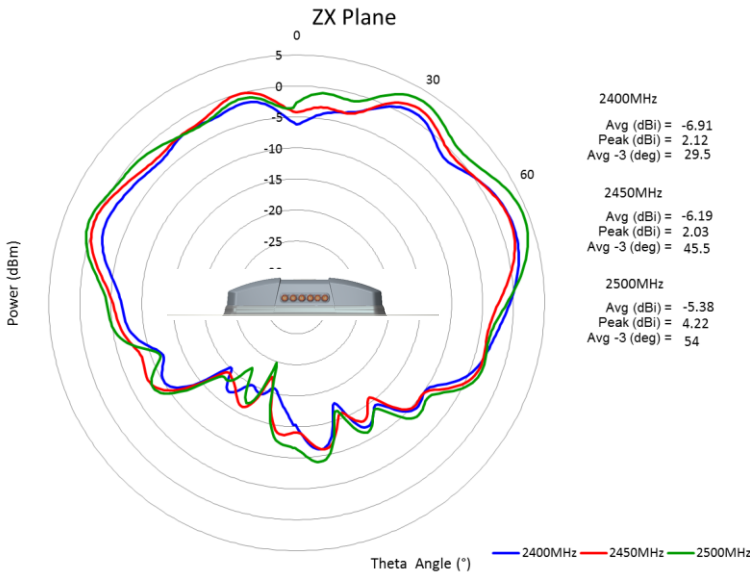
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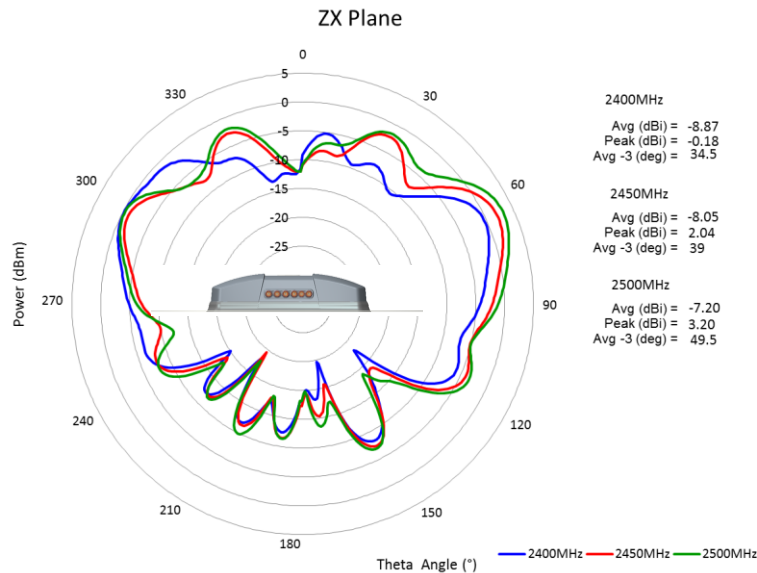
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WiFi1 ZX plane radiation pattern

WiFi2 ZX plane radiation pattern



WiFi3 ZX plane radiation pattern

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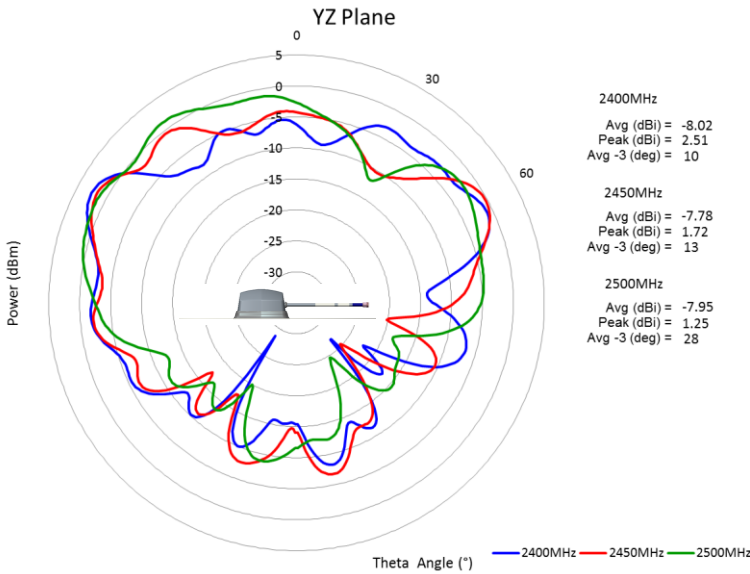
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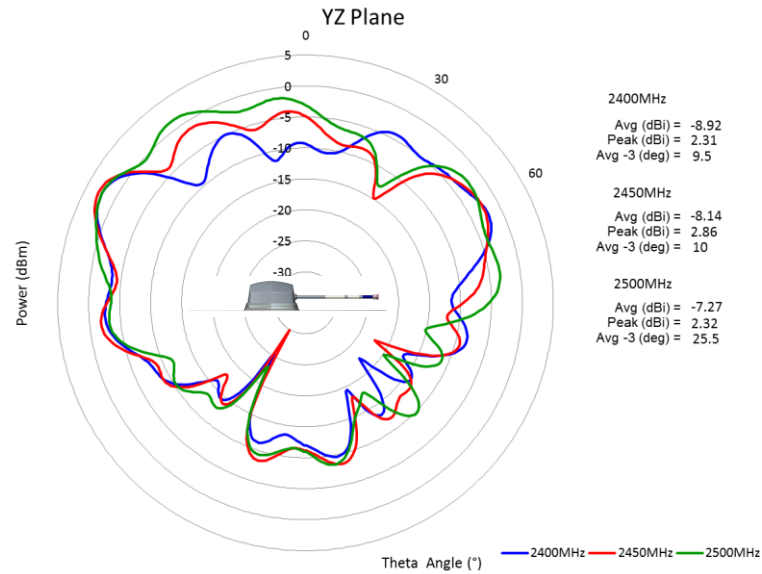
**Series:** ARMADILLO

**PART NUMBER:** ARMXXXXMM

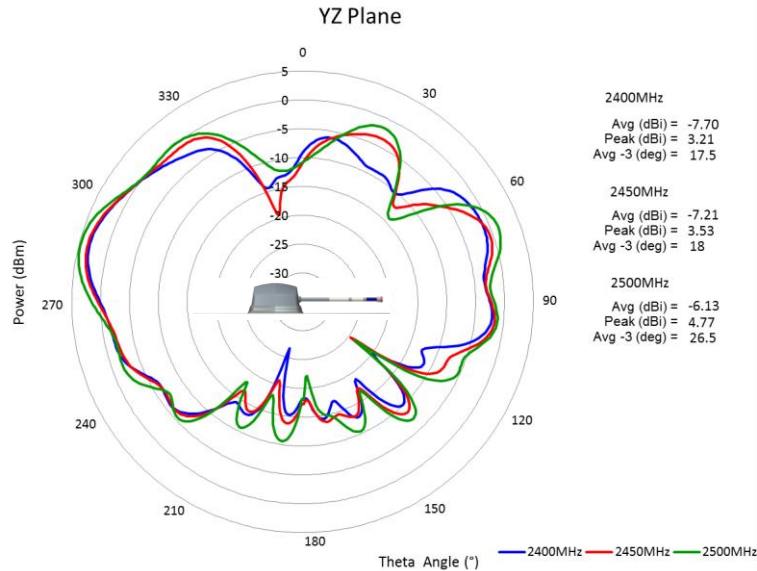
CHARTS



WiFi1 YZ plane radiation pattern



WiFi2 YZ plane radiation pattern



WiFi3 YZ plane radiation pattern

Issue: 1842

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

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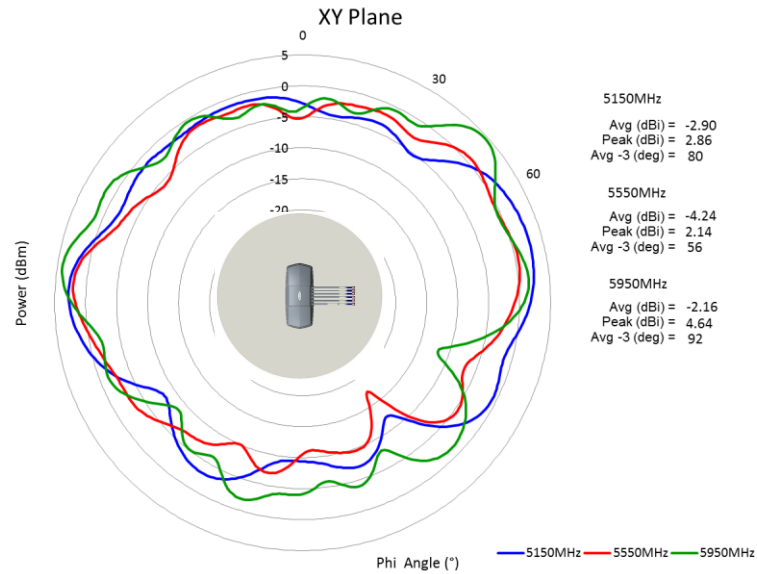
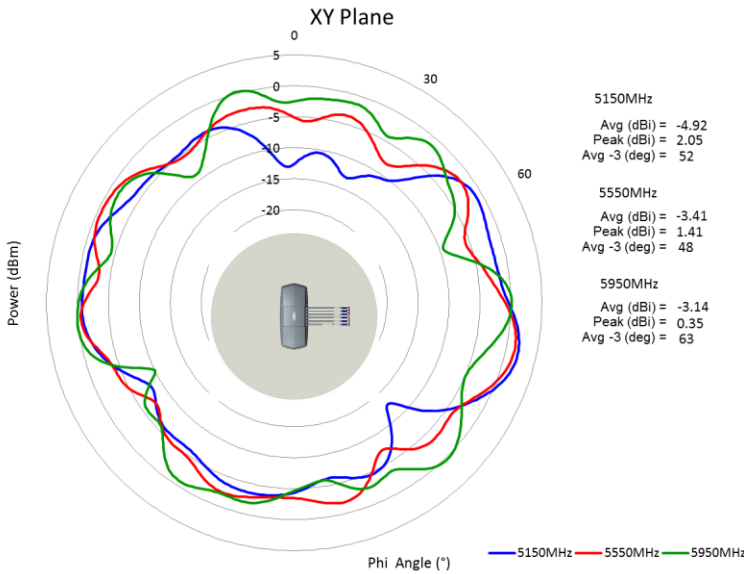
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**Description:** Vehicular Multiband Antenna with Magnetic Mount

**Series:** ARMADILLO

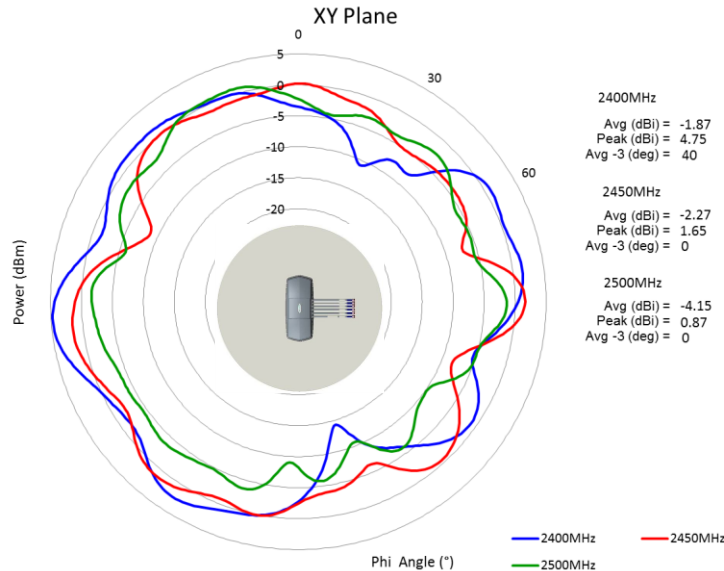
**PART NUMBER:** ARMXXXXMM

CHARTS



WiFi1 XY plane radiation pattern

WiFi2 XY plane radiation pattern



WiFi3 XY plane radiation pattern

Issue: 1842

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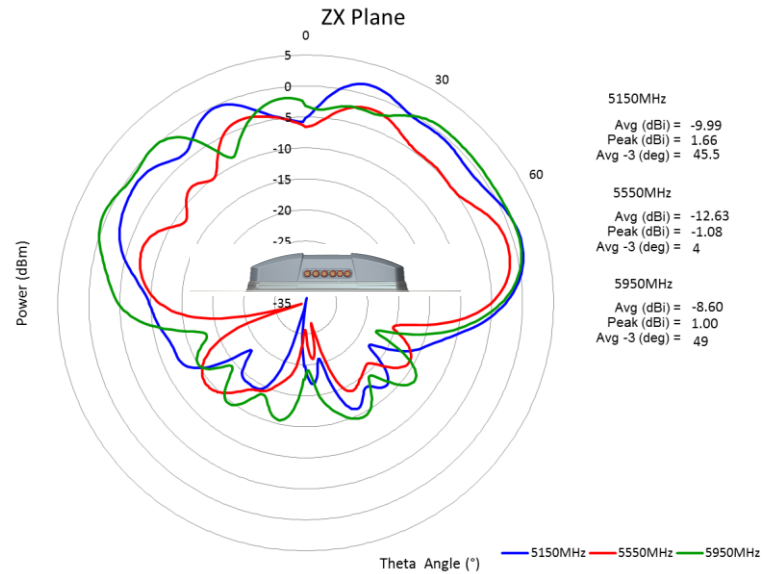
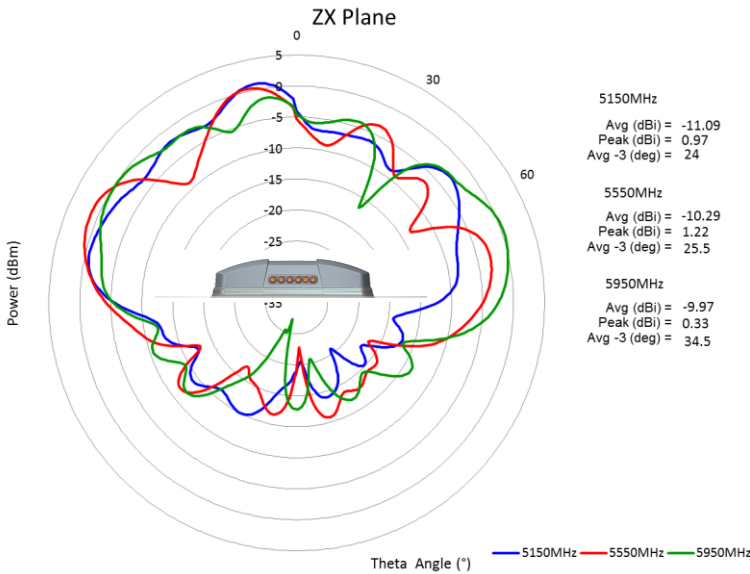
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**Description:** Vehicular Multiband Antenna with Magnetic Mount

**Series:** ARMADILLO

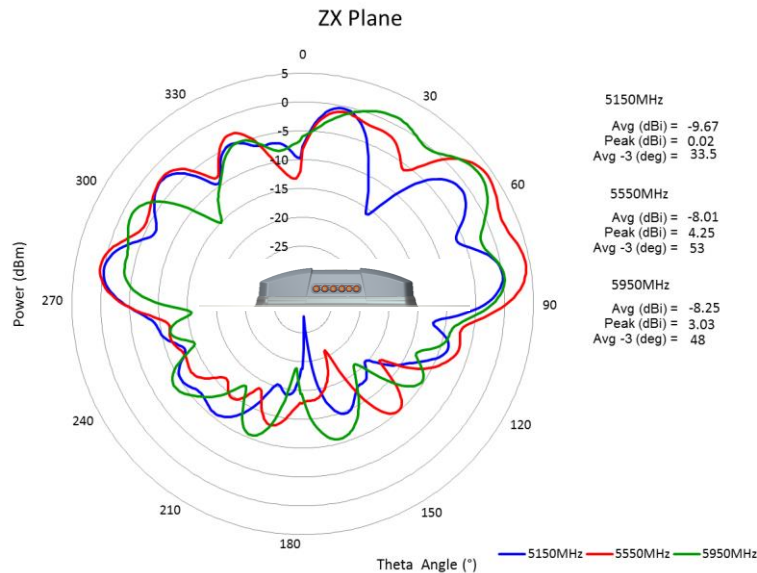
**PART NUMBER:** ARMXXXXMM

CHARTS



WiFi1 ZX plane radiation pattern

WiFi2 ZX plane radiation pattern



WiFi3 ZX plane radiation pattern

Issue: 1842

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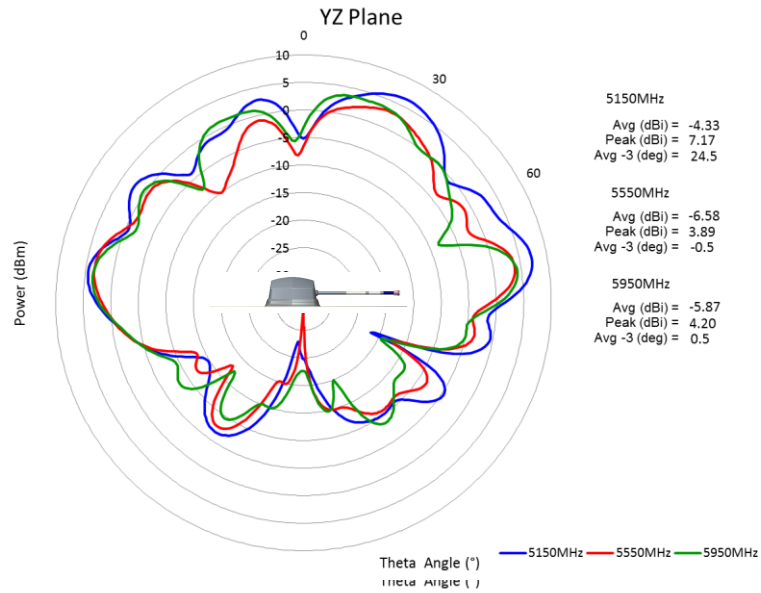
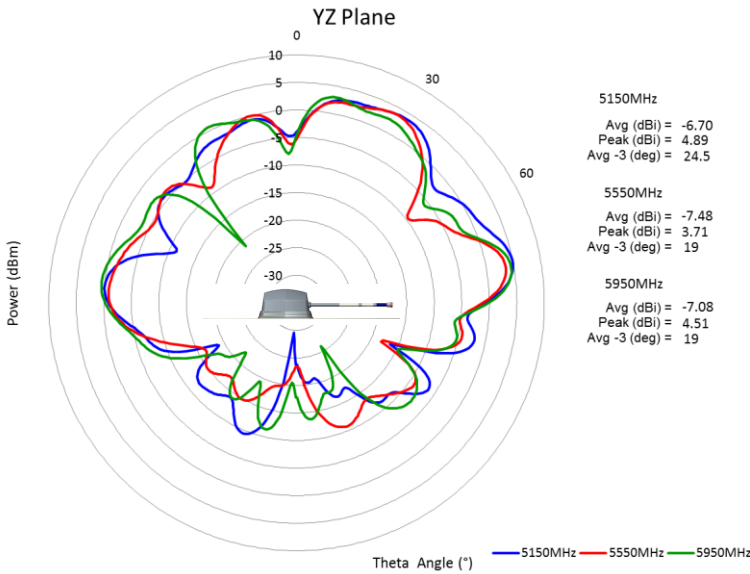
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**Description:** Vehicular Multiband Antenna with Magnetic Mount

**Series:** ARMADILLO

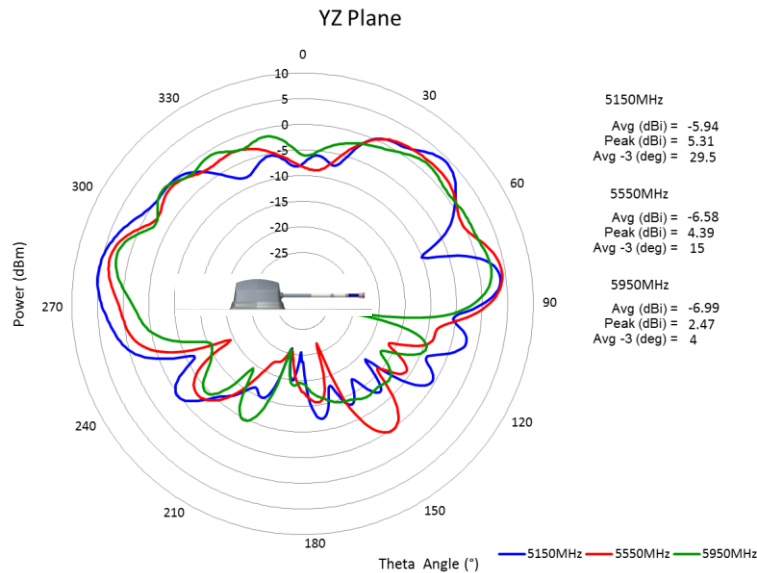
**PART NUMBER:** ARMXXXXMM

CHARTS



WiFi1 YZ plane radiation pattern

WiFi2 YZ plane radiation pattern



WiFi3 YZ plane radiation pattern

Issue: 1842

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Series: ARMADILLO

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

**PART NUMBER: ARMXXXXMM**

## 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.

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

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moschip.ru\_6

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