

Description: 5G-FR1/WiFi/GNSS Low Profile Vehicular Multiband Antenna**PART NUMBER: ARM5GXXXXDM****Features:**

- 2x 617-960/1710-6000MHz
 - 4G (LTE) / 5G-FR1
 - Includes Band 71 (617-698 MHz)
- 2x 2400-2500/5150-5925MHz WiFi
- 1x GNSS Active:
 - Beidou, GPS, Glonass
 - RHCP polarization
 - Amplifier Gain 30dBi
- Omni radiation pattern
- Size: L x W x H 202.3 x 88.5 x 45mm
- IP67

Applications:

- 2G/3G/4G/5G radios
- CBRS Band 42 and 48 (3.4-3.7GHz)
- Vehicular use
- Utility boxes
- Smart metering
- IoT Devices

Issue: 2111

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

Series: ARMADILLO

Description: 5G-FR1/WiFi/GNSS Low Profile Vehicular Multiband Antenna

PART NUMBER: ARM5GXXXXDM

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 | Cable Length | Mounting |
|--------------|-------------------|-------------------|----------------------|-------------------|---------------|-----------------------|--|
| ARM5G62311DM | 6 | 2 (with SMA Male) | 3 (with RP-SMA Male) | 1 (with SMA Male) | Black | 17 FT or 5181mm | 1. Direct Mount; 7/8" Hole Required 2. Mounting Surface thickness < 0.25" |
| ARM5G62312DM | 6 | 2 (with SMA Male) | 3 (with RP-SMA Male) | 1 (with SMA Male) | White | | |
| ARM5G52211DM | 5 | 2 (with SMA Male) | 2 (with RP-SMA Male) | 1 (with SMA Male) | Black | | |
| ARM5G52212DM | 5 | 2 (with SMA Male) | 2 (with RP-SMA Male) | 1 (with SMA Male) | White | | |
| ARM5G42111DM | 4 | 2 (with SMA Male) | 1 (with RP-SMA Male) | 1 (with SMA Male) | Black | | |
| ARM5G42112DM | 4 | 2 (with SMA Male) | 1 (with RP-SMA Male) | 1 (with SMA Male) | White | | |
| ARM5G32011DM | 3 | 2 (with SMA Male) | 0 | 1 (with SMA Male) | Black | | |
| ARM5G32012DM | 3 | 2 (with SMA Male) | 0 | 1 (with SMA Male) | White | | |

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Series: ARMADILLO

Description: 5G-FR1/WiFi/GNSS Low Profile Vehicular Multiband Antenna

PART NUMBER: ARM5GXXXXDM

This document covers all product variants of the following product family

Product Numbering

Vehicular Multiband Antenna with Direct Mount

(Part Number) **ARM** **5G** **X** **X** **X** **X** **X** **DM**

| | |
|---|---|
| 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: Direct Mount; 7/8" Hole Required |

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Description: 5G-FR1/WiFi/GNSS Low Profile
Vehicular Multiband Antenna

Series: ARMADILLO

PART NUMBER: ARM5GXXXXDM

ELECTRICAL SPECIFICATIONS

| | |
|----------------------------|----------------------------|
| Frequency 5G-FR1/LTE | 617-960MHz, 1710-6000MHz |
| Frequency WiFi | 2400-2500MHz, 5150-5925MHz |
| Nominal Impedance | 50 Ω |
| VSWR* | |
| 617-960MHz | <2.5 |
| 1710-6000MHz | <2.2 |
| 2400-2500MHz | <2 |
| 5150-5925MHz | <2 |
| Isolation* | |
| 617-960MHz, 1710-6000MHz | -8dB |
| 2400-2500MHz, 5150-5925MHz | -10dB |
| Average Peak Gain** | |
| 617-960MHz; | 2.2dBi |
| 1710-6000MHz | 4.6dBi |
| 2400-2500MHz | 5.4dBi |
| 5150-5925MHz | 6.3dBi |
| Polarization | Vertical |

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

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

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Description: 5G-FR1/WiFi/GNSS Low Profile
Vehicular Multiband Antenna**Series:** ARMADILLO**PART NUMBER:** ARM5GXXXXDM**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 | |
| 617 MHz | >70 dB |
| 960 MHz | >65 dB |
| 1710 MHz | >60 dB |
| 6000 MHz | >60 dB |
| 2400 MHz | >65 dB |
| 2700 MHz | >65 dB |
| Noise Figure | <2.4 dB |
| Operating Voltage | 3.3 – 5 Vdc |
| Current Consumption | <15mA |
| RF-chain line-up | Ant-Filter1-LNA1-Filter2-LNA2 |

Description: 5G-FR1/WiFi/GNSS Low Profile
Vehicular Multiband Antenna**Series:** ARMADILLO**PART NUMBER:** ARM5GXXXXDM**MECHANICAL SPECIFICATIONS**

| | |
|--------------------------|-------------------------|
| Overall Length | 202.3mm X 88.5mm X 45mm |
| Weight | 1.15 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

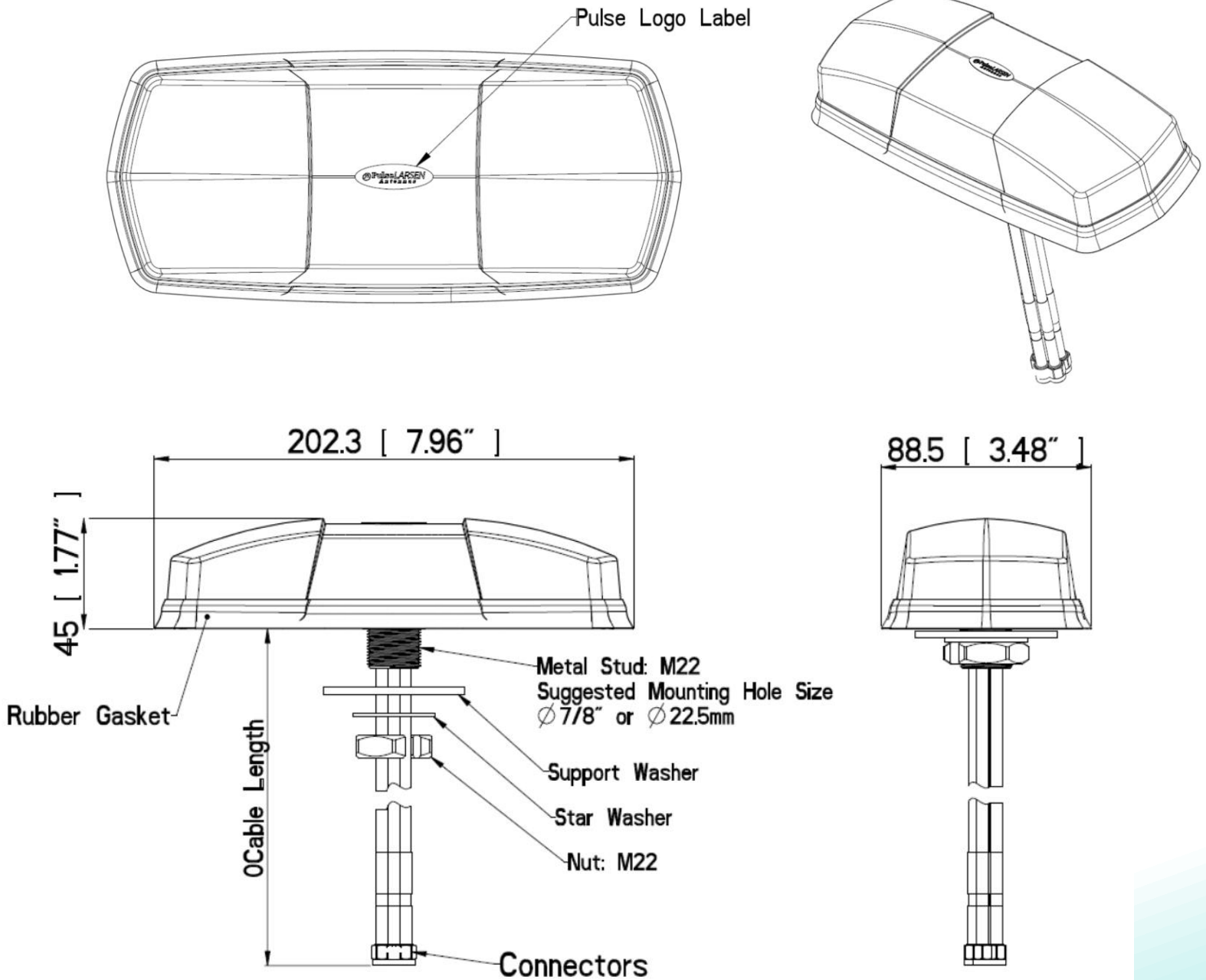
| | |
|---|-------|
| Total cable assembly loss for 5.2m (17') LMR-195 @850MHz | 2.1dB |
| Total cable assembly loss for 5.2m (17') LMR-100 @1575MHz | 5.9dB |
| Total cable assembly loss for 5.2m (17') LMR-195 @1930MHz | 3.2dB |
| Total cable assembly loss for 5.2m (17') LMR-195 @2450MHz | 3.6dB |
| 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: 5G-FR1/WiFi/GNSS Low Profile
Vehicular Multiband Antenna

PART NUMBER: ARM5GXXXXDM

MECHANICAL DRAWING



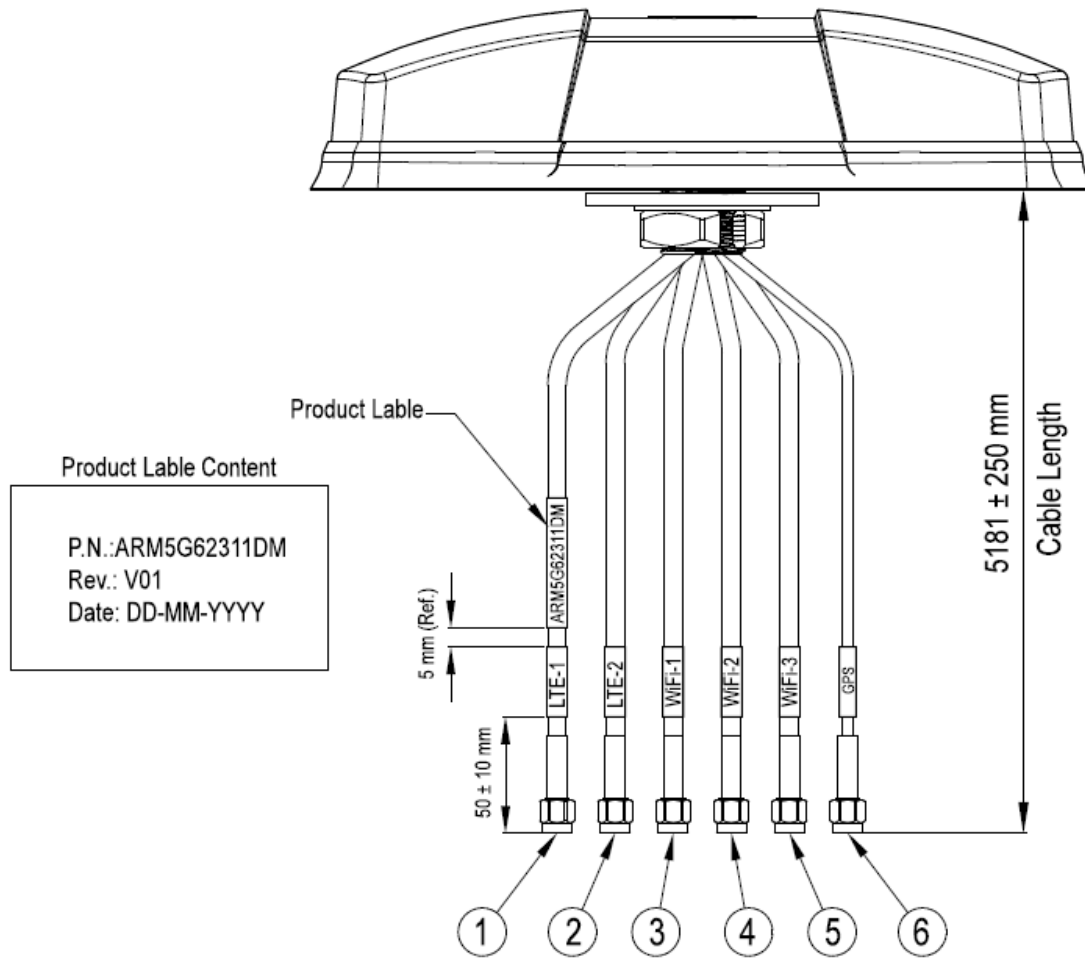
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MECHANICAL DRAWING



| | ARM5G62311DM | 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 | | | |
| 6 | GPS Cable Assy | LMR-100* | | SMA Male |

* or equivalent

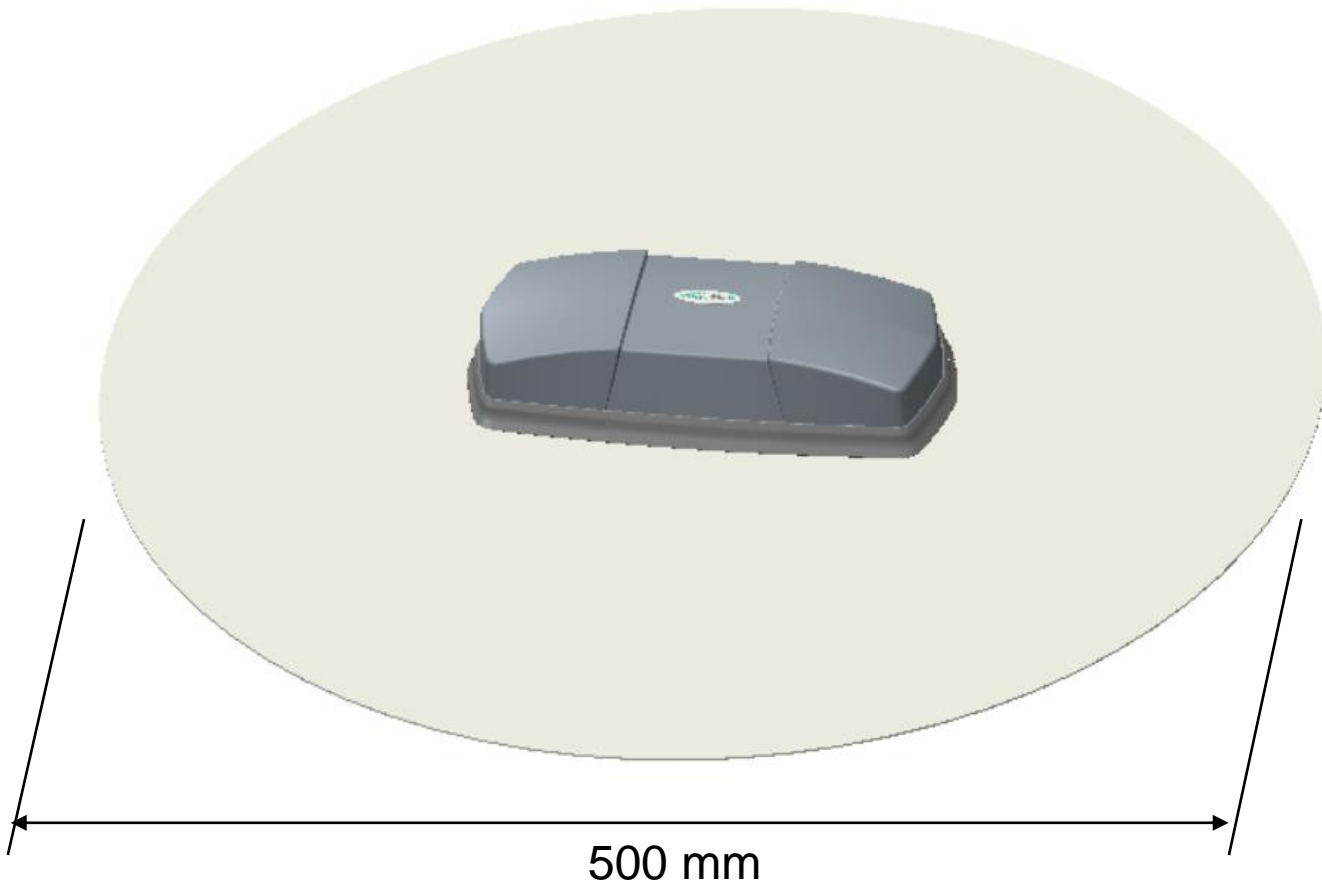
Description: 5G-FR1/WiFi/GNSS Low Profile
Vehicular Multiband Antenna

Series: ARMADILLO

PART NUMBER: ARM5GXXXXDM

TEST SETUP

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



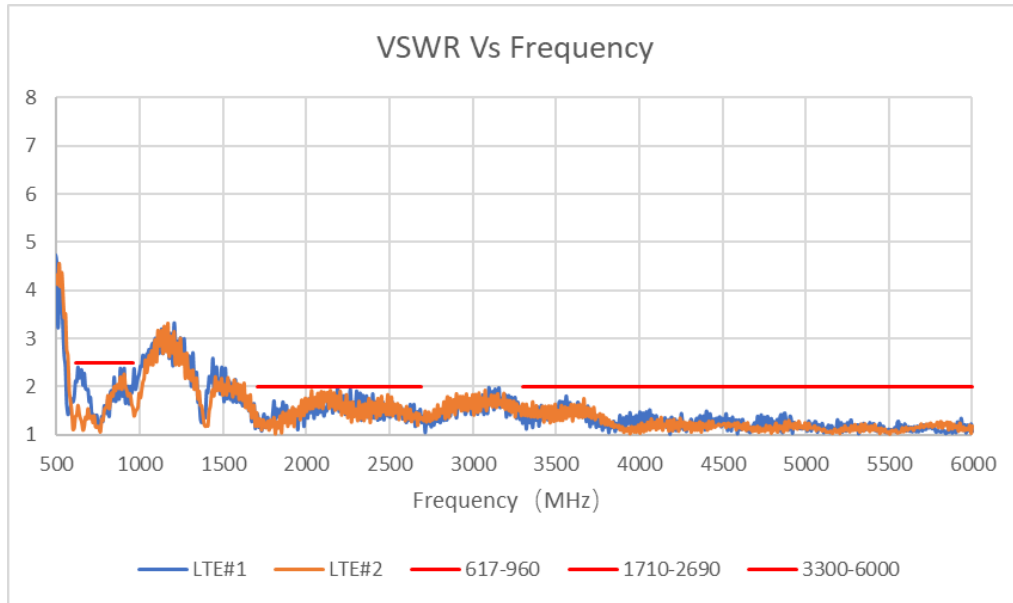
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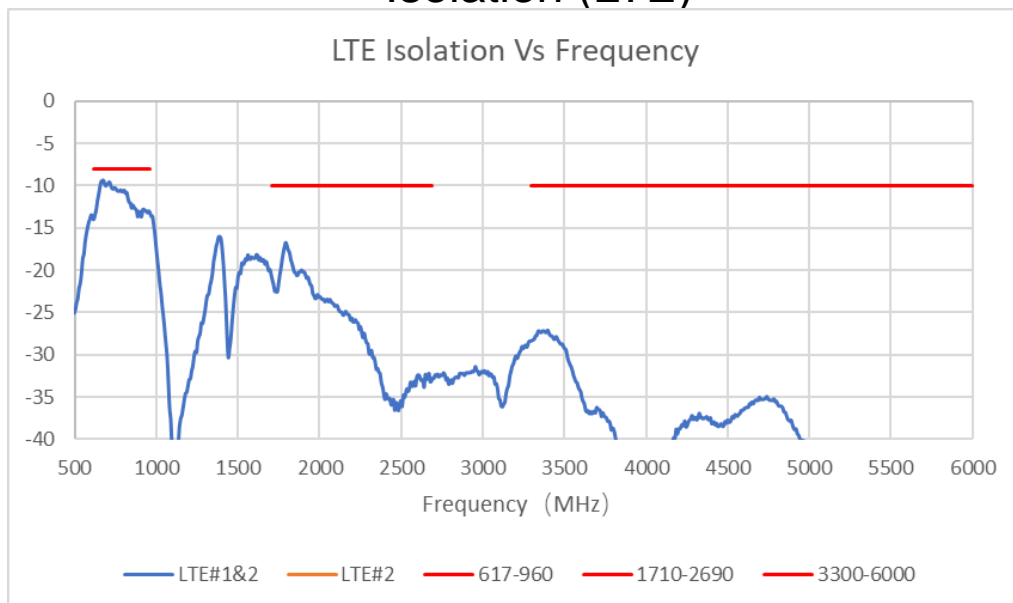
PART NUMBER: ARM5GXXXXDM

CHARTS

VSWR (LTE)



Isolation (LTE)



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

Issue: 2111

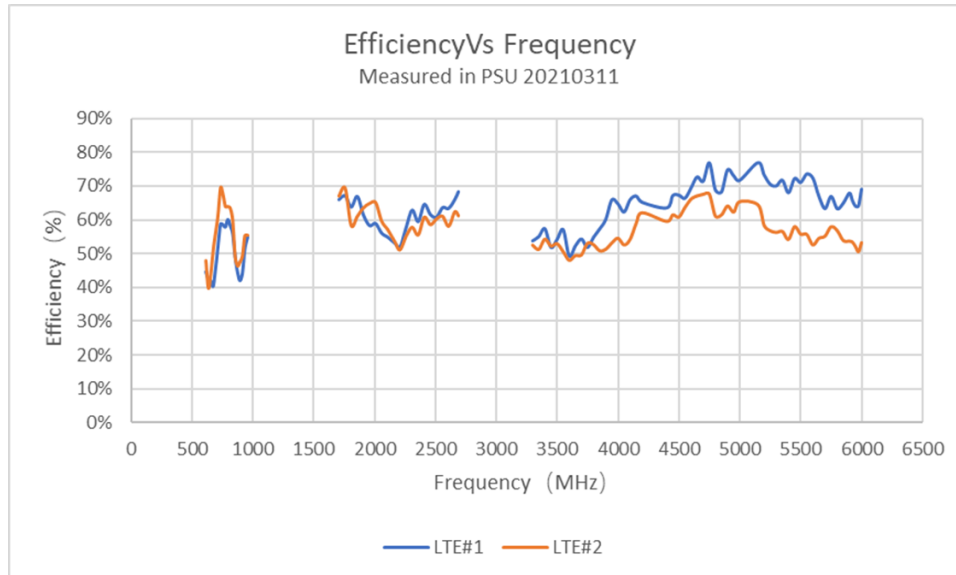
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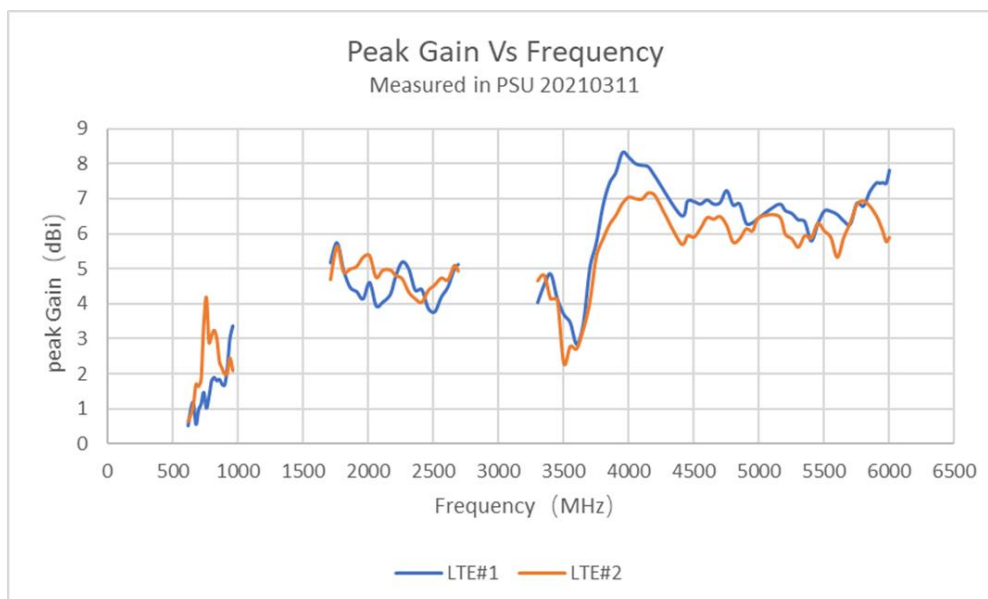
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CHARTS

Radiation Efficiency (LTE)



Peak Gain (LTE)



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

Issue: 2111

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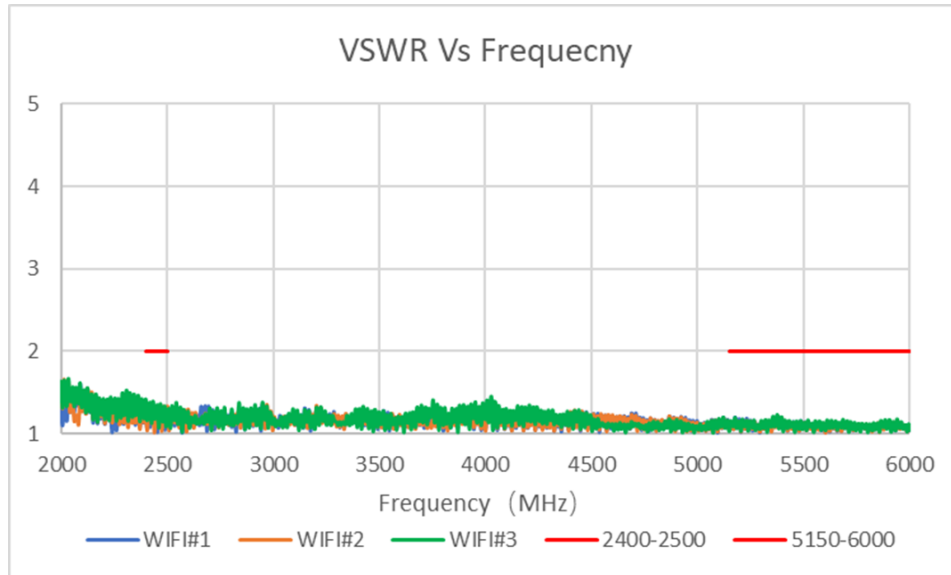
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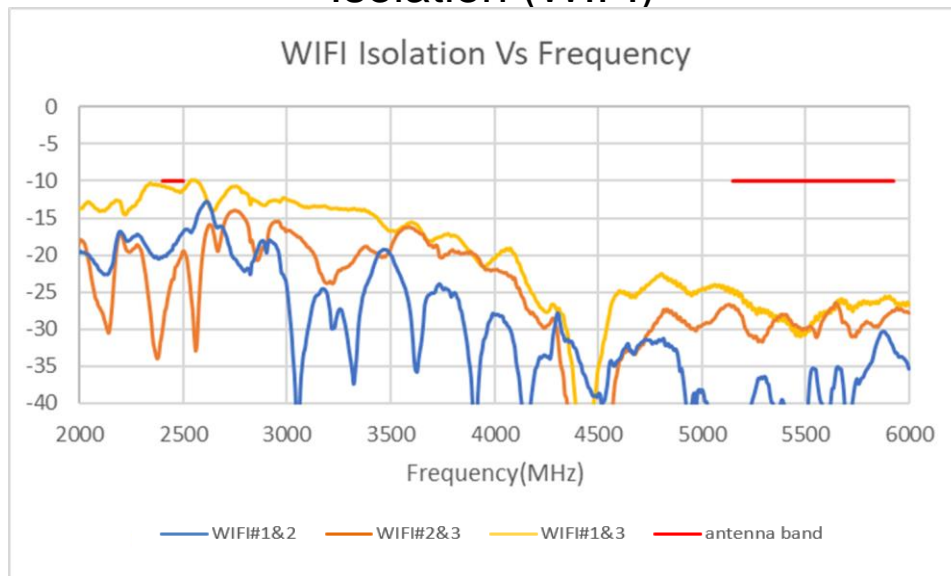
PART NUMBER: ARM5GXXXXDM

CHARTS

VSWR (WIFI)



Isolation (WIFI)



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

Issue: 2111

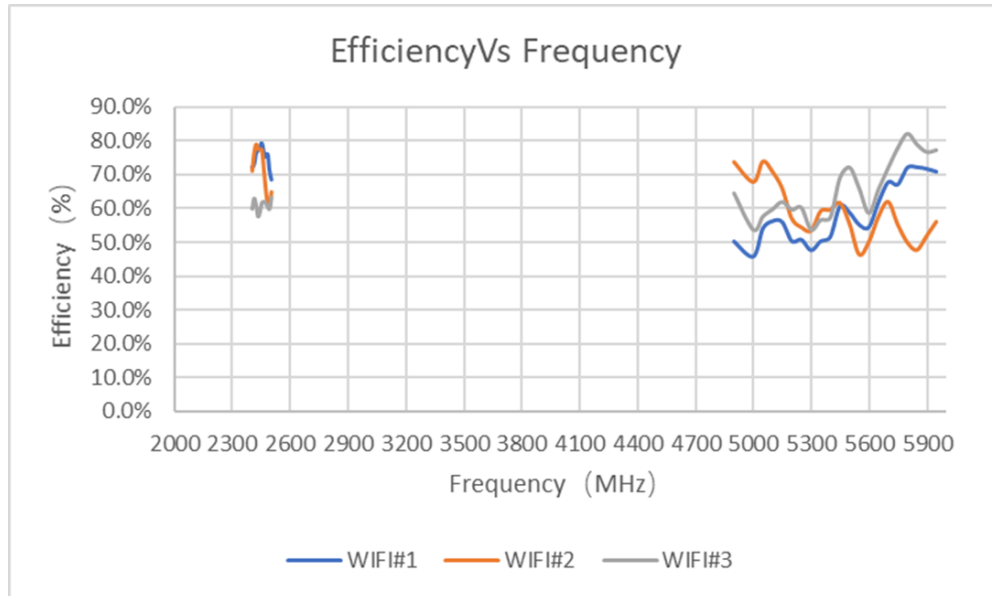
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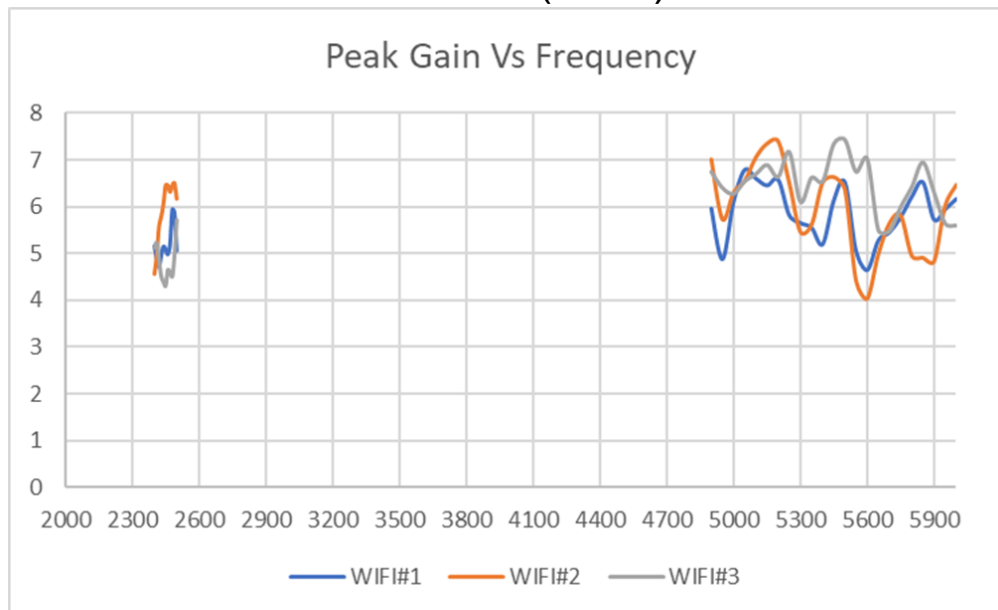
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CHARTS

Radiation Efficiency (WIFI)



Peak Gain (WIFI)



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

Issue: 2111

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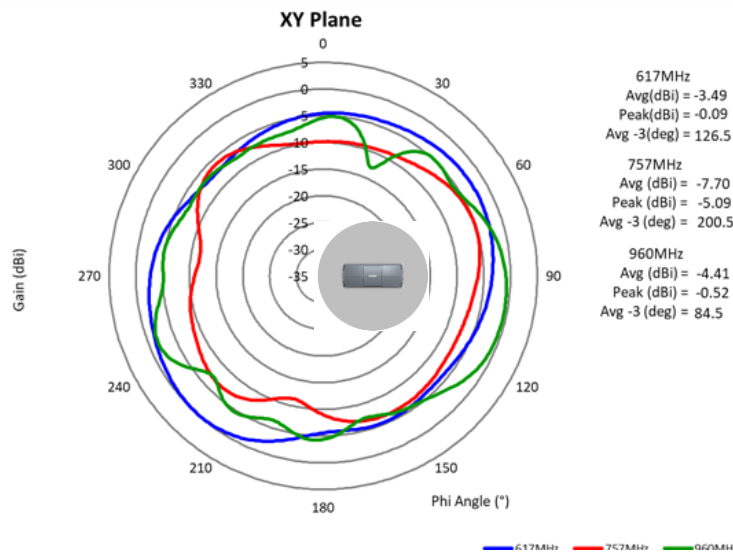
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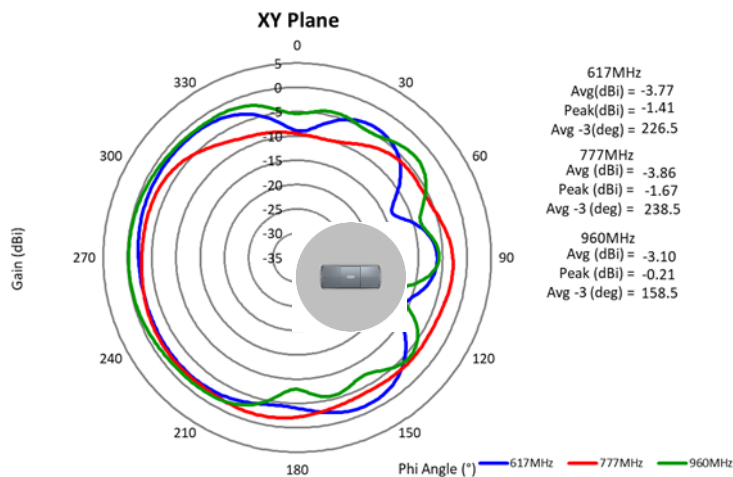
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PART NUMBER: ARM5GXXXXDM

CHARTS



LTE1 XY plane radiation pattern



LTE2 XY plane radiation pattern

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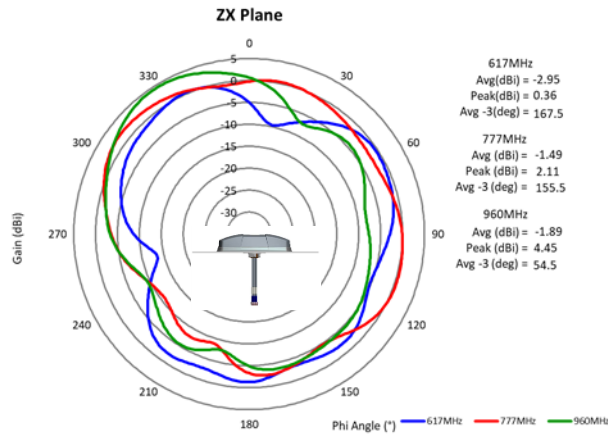
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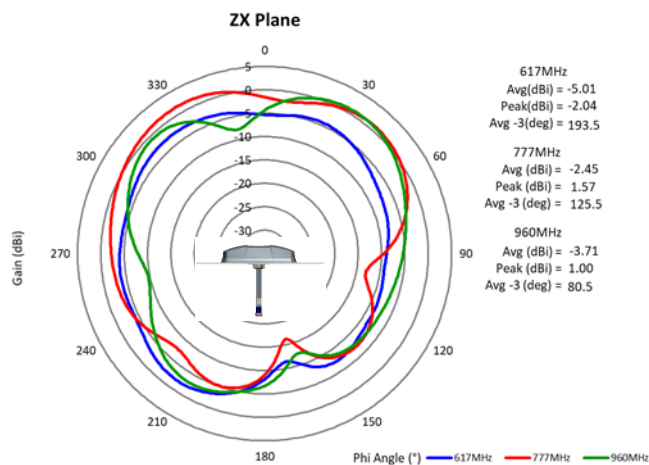
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CHARTS



LTE1 ZX plane radiation pattern



LTE2 ZX plane radiation pattern

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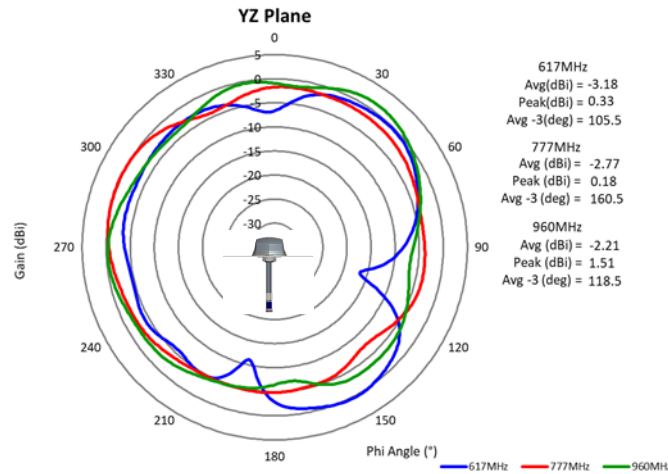
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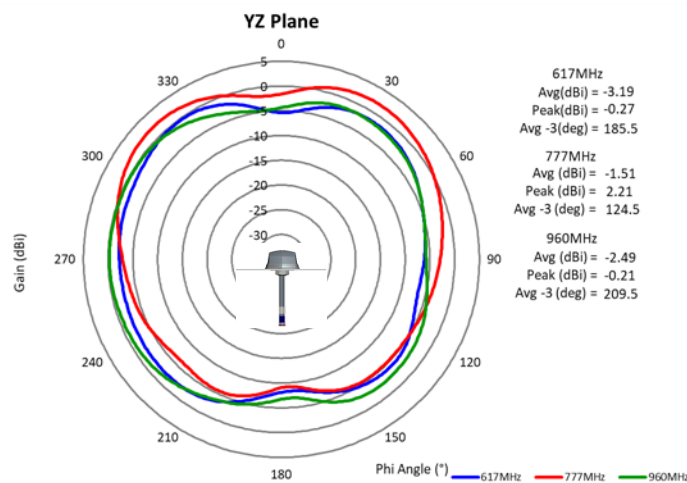
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CHARTS



LTE1 YZ plane radiation pattern



LTE2 YZ plane radiation pattern

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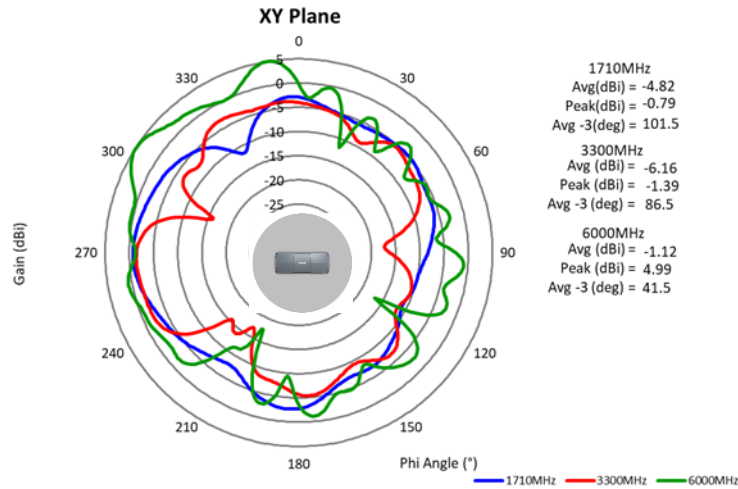
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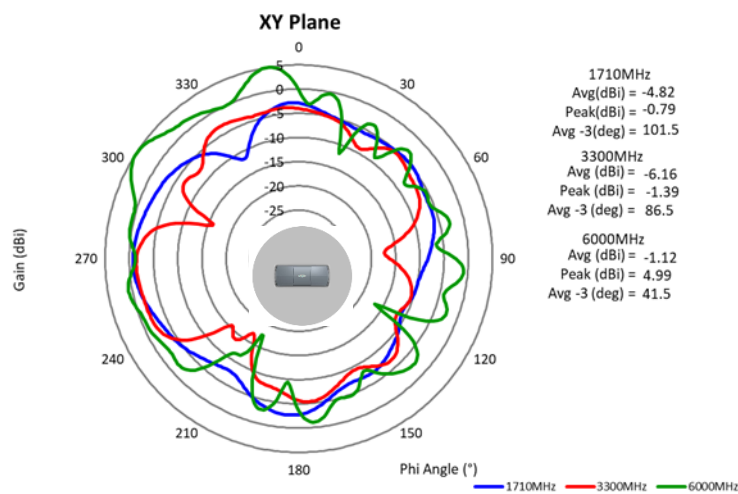
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PART NUMBER: ARM5GXXXXDM

CHARTS



LTE1 XY plane radiation pattern



LTE2 XY plane radiation pattern

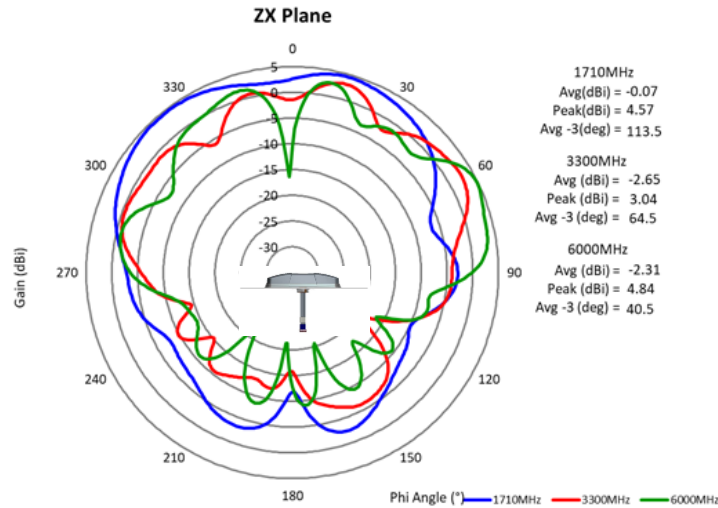
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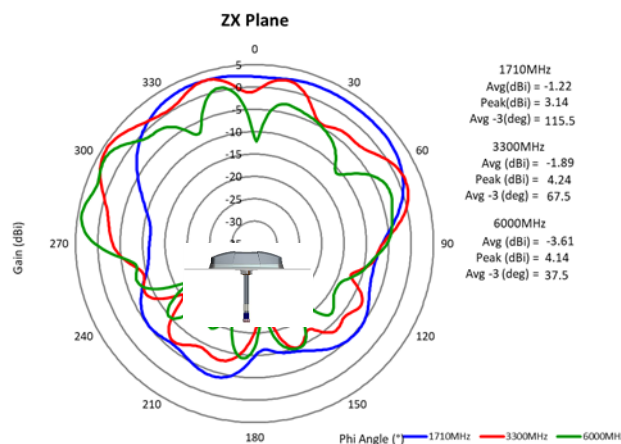
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CHARTS



LTE1 ZX plane radiation pattern



LTE2 ZX plane radiation pattern

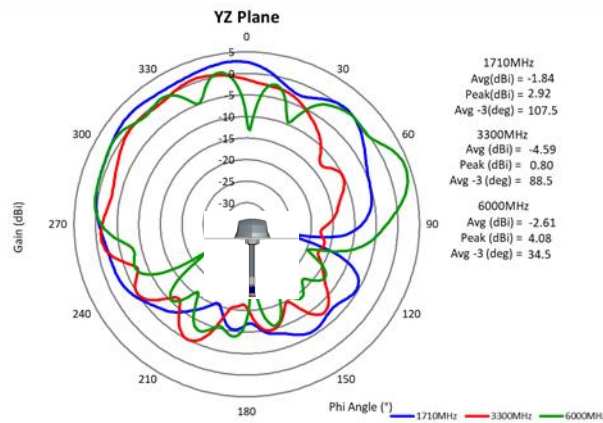
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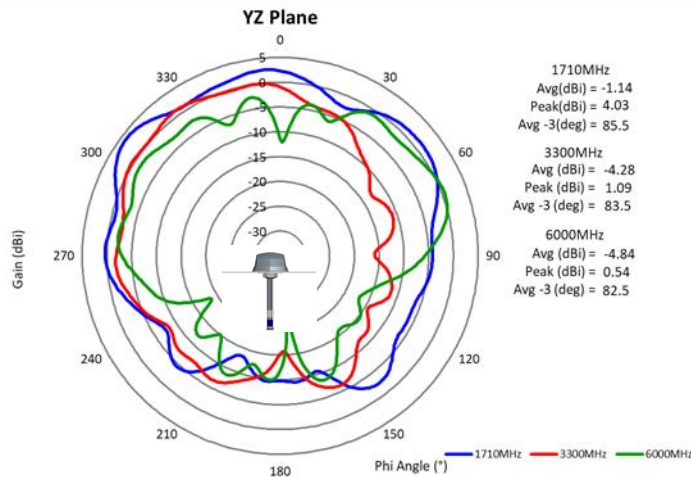
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CHARTS



LTE1 YZ plane radiation pattern



LTE2 YZ plane radiation pattern

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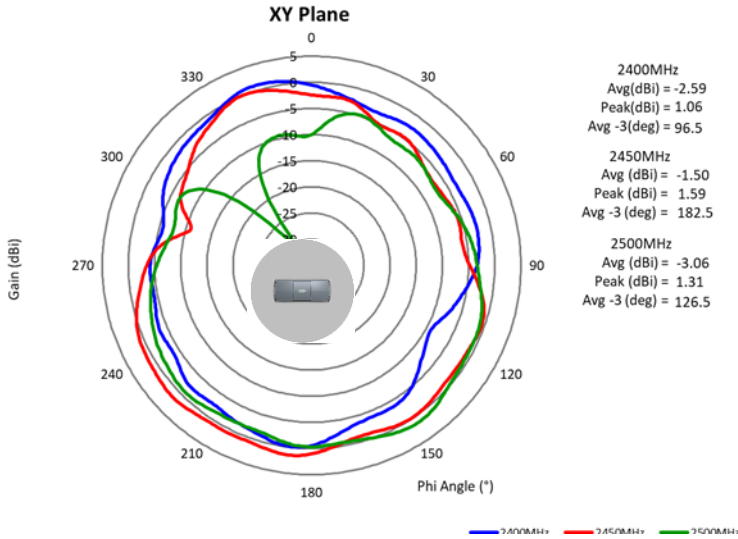
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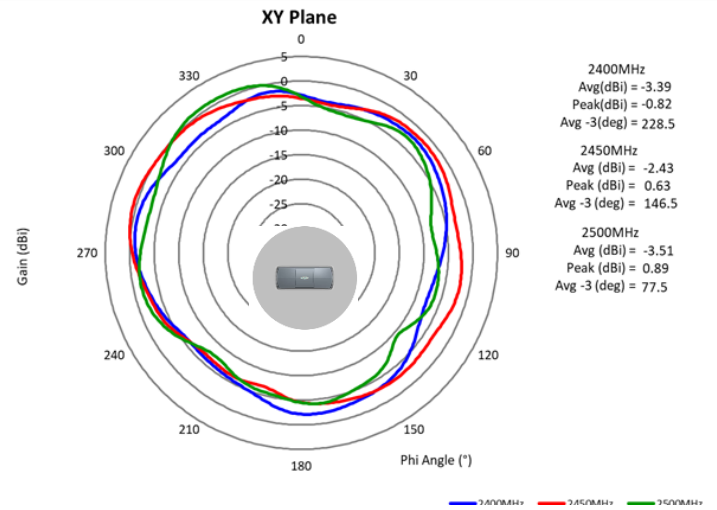
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PART NUMBER: ARM5GXXXXDM

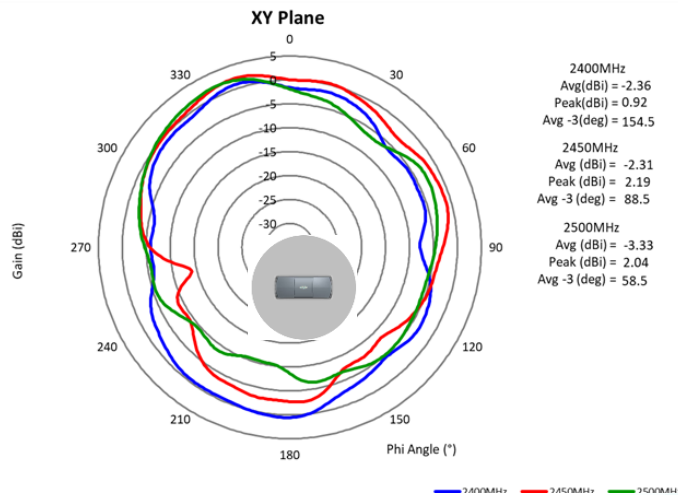
CHARTS



WiFi1 XY plane radiation pattern



WiFi2 XY plane radiation pattern



WiFi3 XY plane radiation pattern

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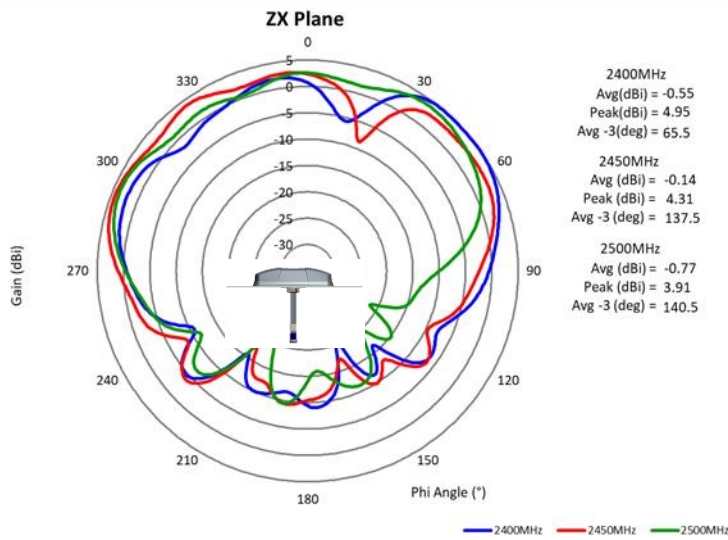
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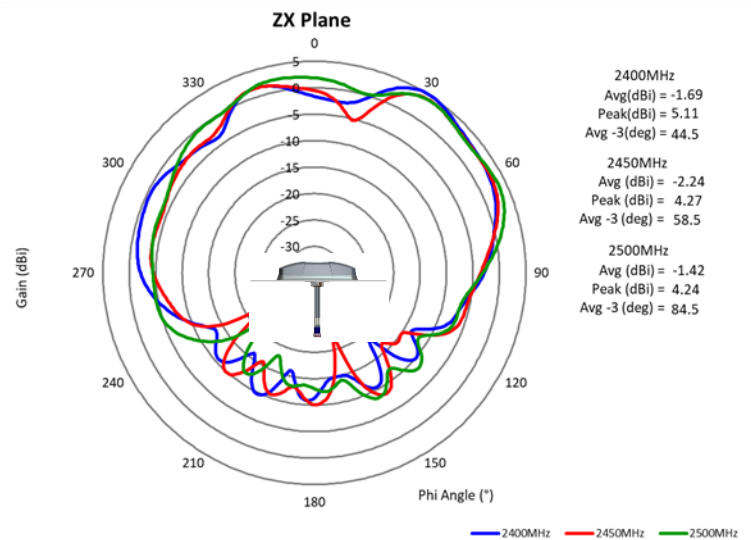
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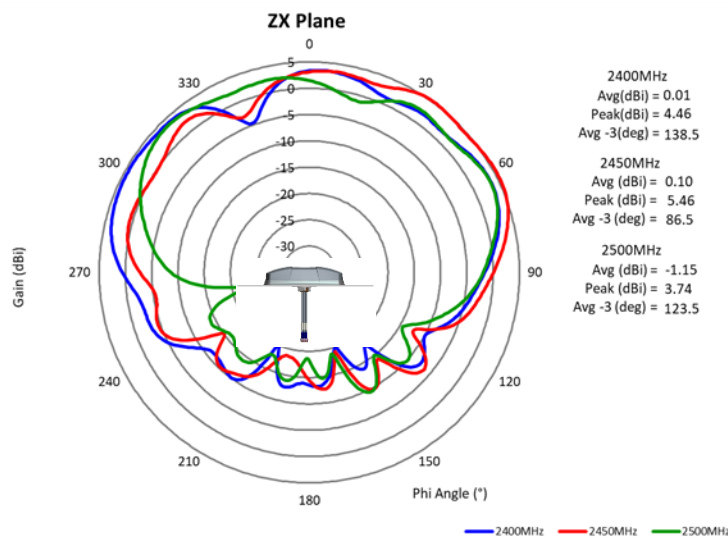
CHARTS



WiFi1 ZX plane radiation pattern



WiFi2 ZX plane radiation pattern



WiFi3 ZX plane radiation pattern

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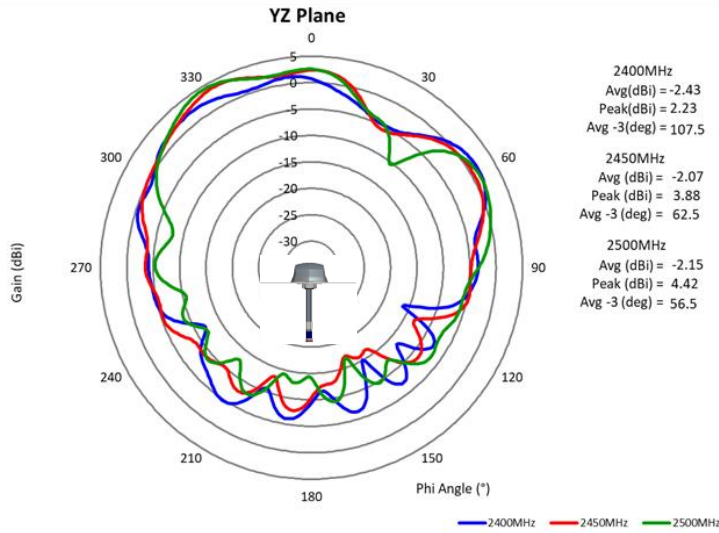
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Description: 5G-FR1/WiFi/GNSS Low Profile Vehicular Multiband Antenna

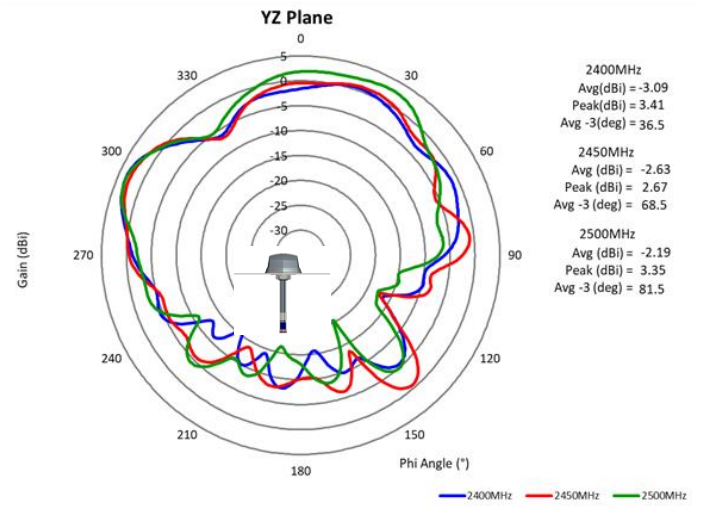
Series: ARMADILLO

PART NUMBER: ARM5GXXXXDM

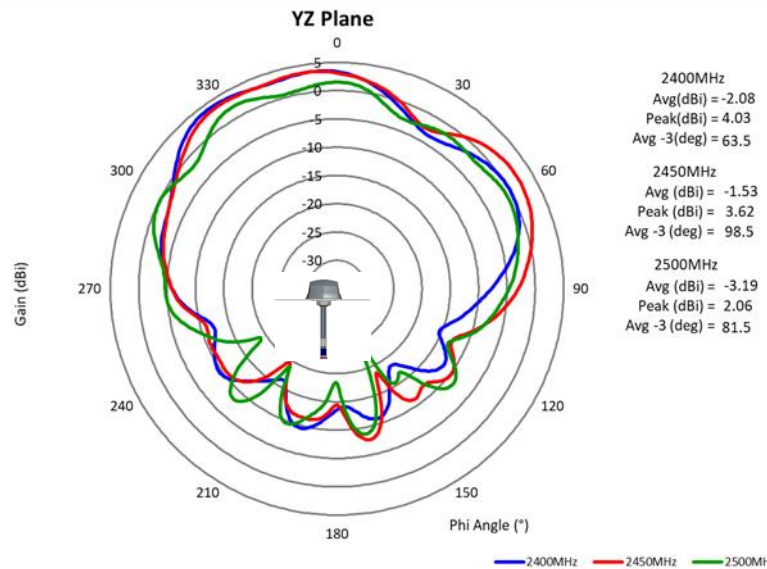
CHARTS



WiFi1 YZ plane radiation pattern



WiFi2 YZ plane radiation pattern



WiFi3 YZ plane radiation pattern

Issue: 2111

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

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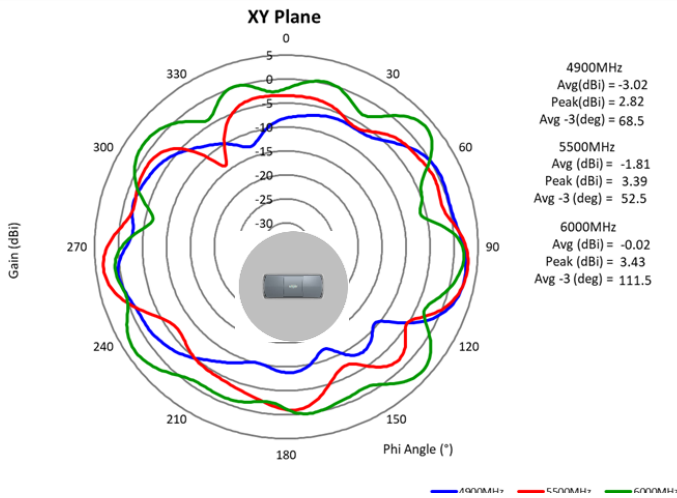
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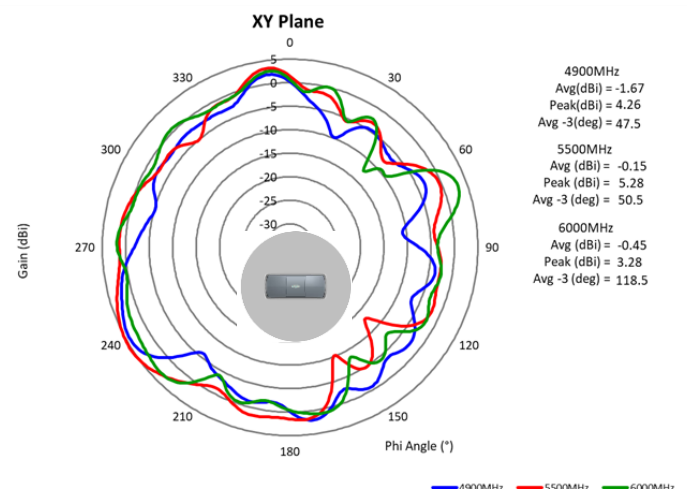
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PART NUMBER: ARM5GXXXXDM

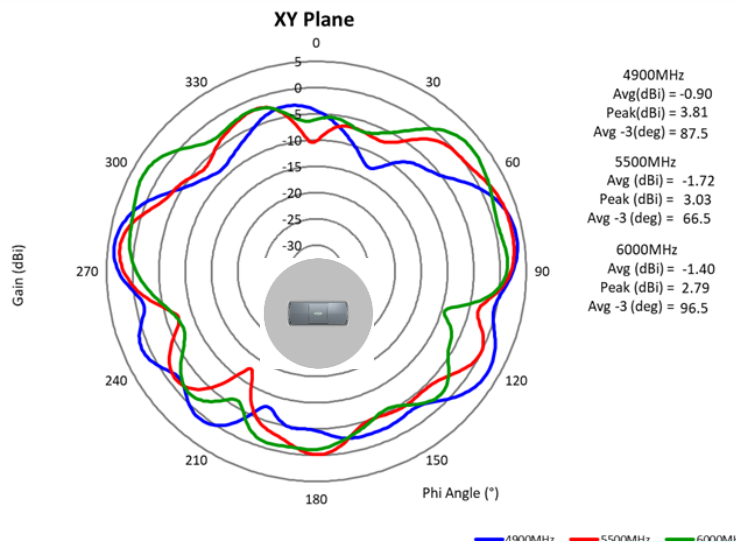
CHARTS



WiFi1 XY plane radiation pattern



WiFi2 XY plane radiation pattern



WiFi3 XY plane radiation pattern

Issue: 2111

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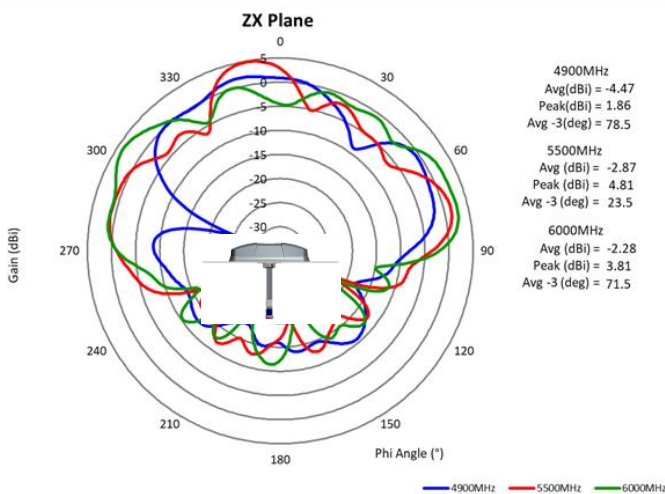
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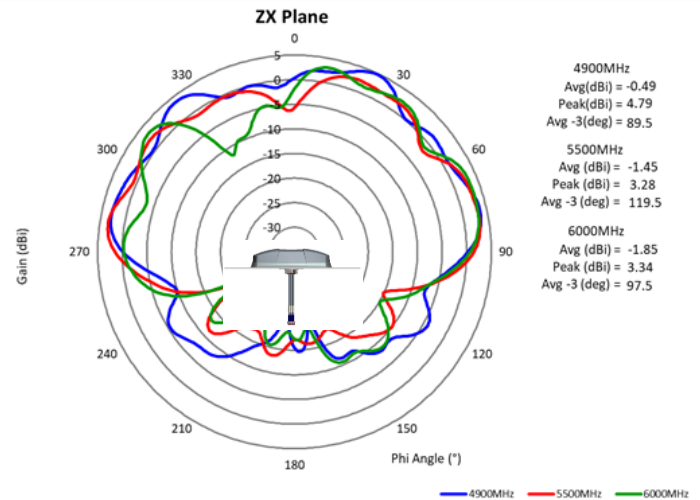
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PART NUMBER: ARM5GXXXXDM

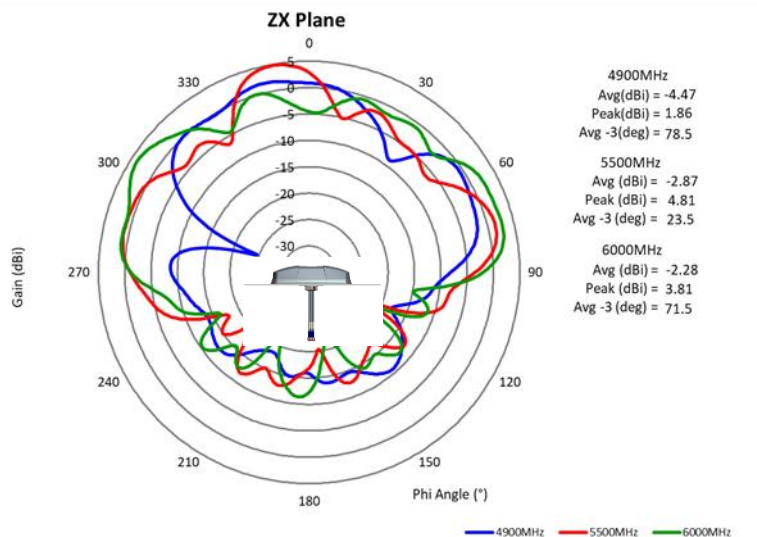
CHARTS



WiFi1 ZX plane radiation pattern



WiFi2 ZX plane radiation pattern



WiFi3 ZX plane radiation pattern

Issue: 2111

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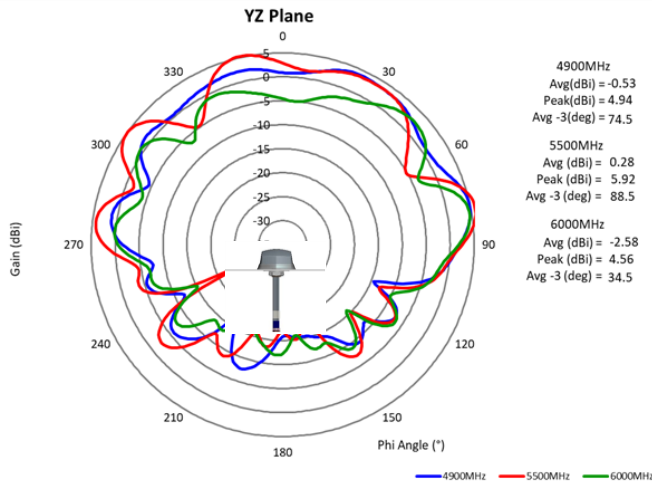
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Description: 5G-FR1/WiFi/GNSS Low Profile Vehicular Multiband Antenna

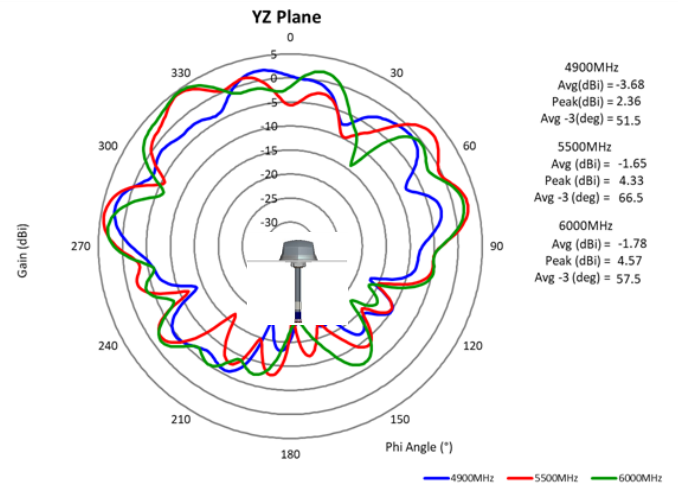
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PART NUMBER: ARM5GXXXXDM

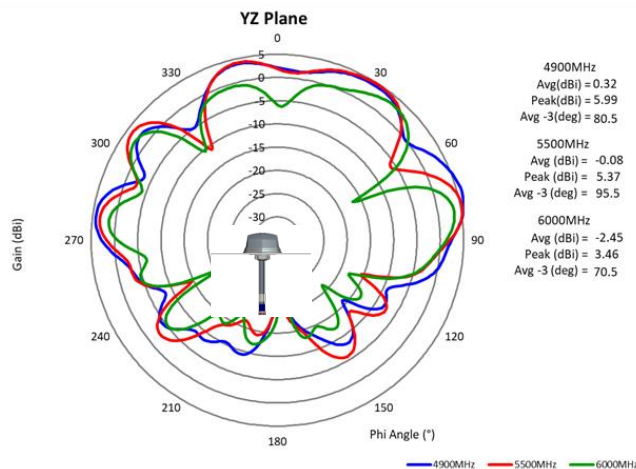
CHARTS



WiFi1 YZ plane radiation pattern



WiFi2 YZ plane radiation pattern



WiFi3 YZ plane radiation pattern

Issue: 2111

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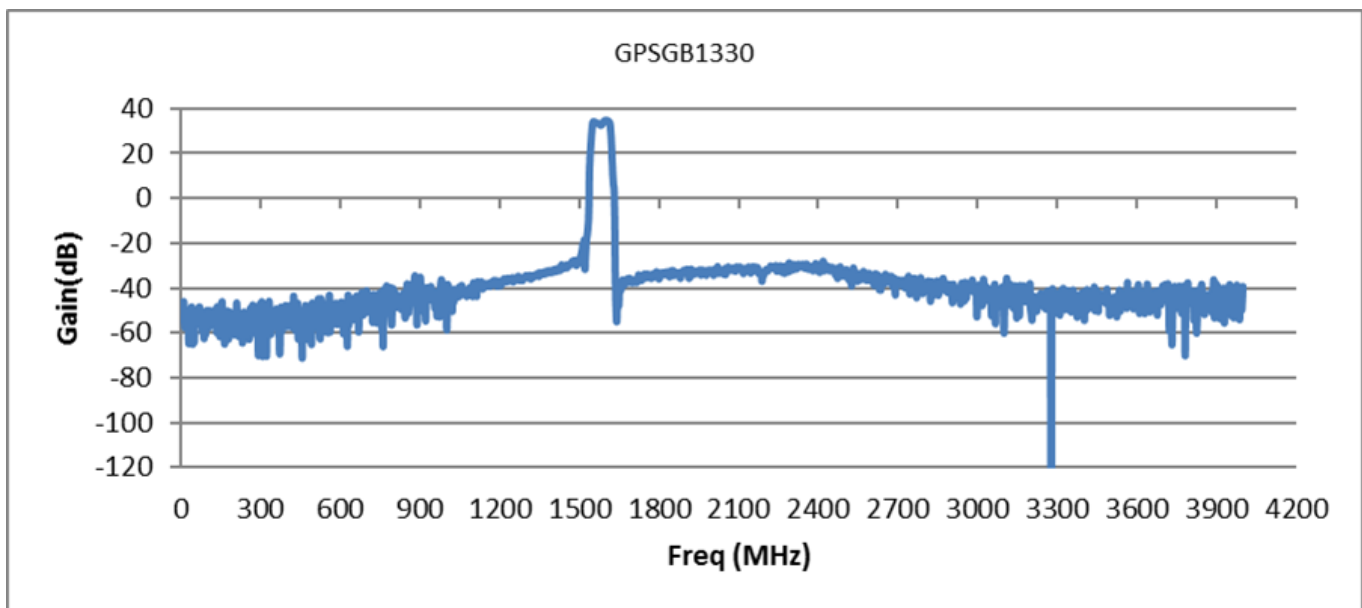
Description: 5G-FR1/WiFi/GNSS Low Profile Vehicular Multiband Antenna

Series: ARMADILLO

PART NUMBER: ARM5GXXXXDM

CHARTS

LNA Gain and out-of-band rejection



WiFi3 YZ plane radiation pattern

Issue: 2111

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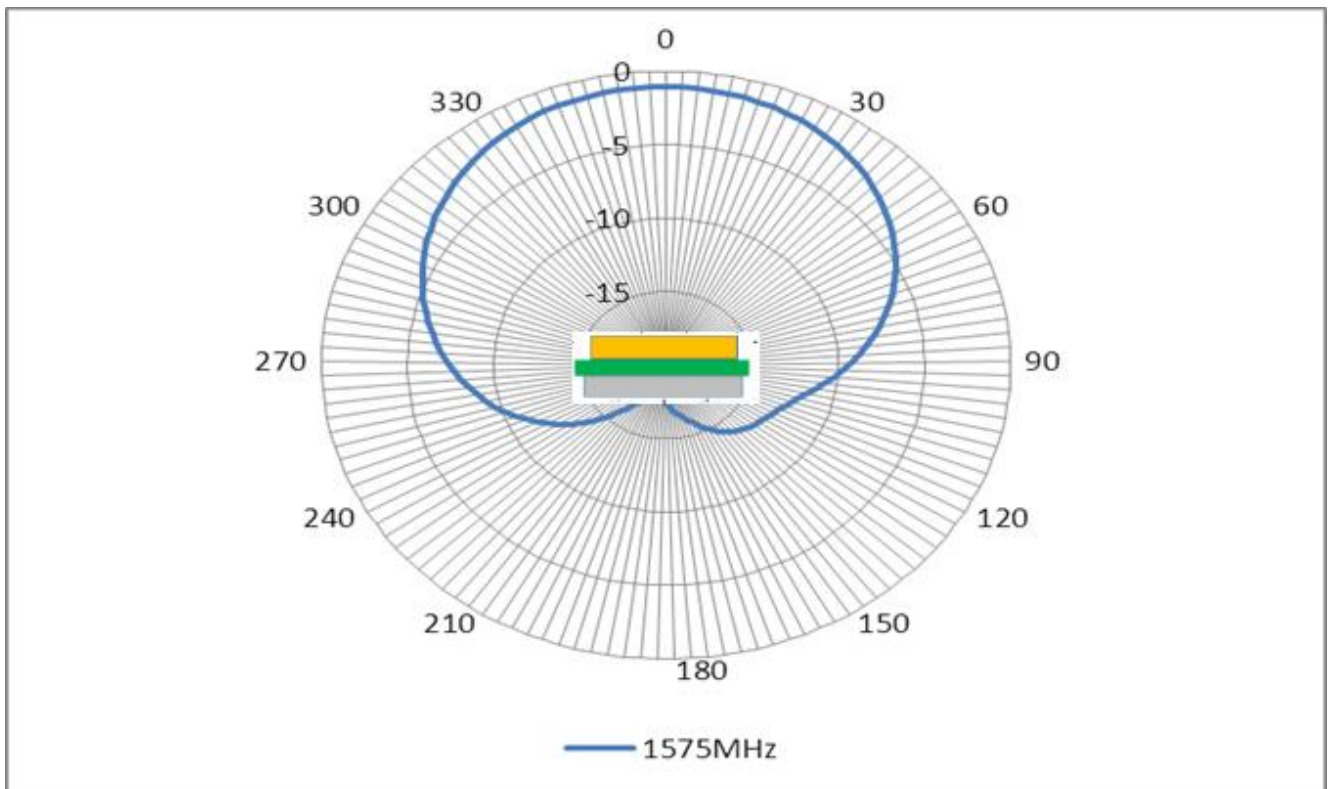
Description: 5G-FR1/WiFi/GNSS Low Profile Vehicular Multiband Antenna

Series: ARMADILLO

PART NUMBER: ARM5GXXXXDM

CHARTS

Radiation Pattern (70mm x 70mm ground plane) GPS & Galileo



WiFi3 YZ plane radiation pattern

Issue: 2111

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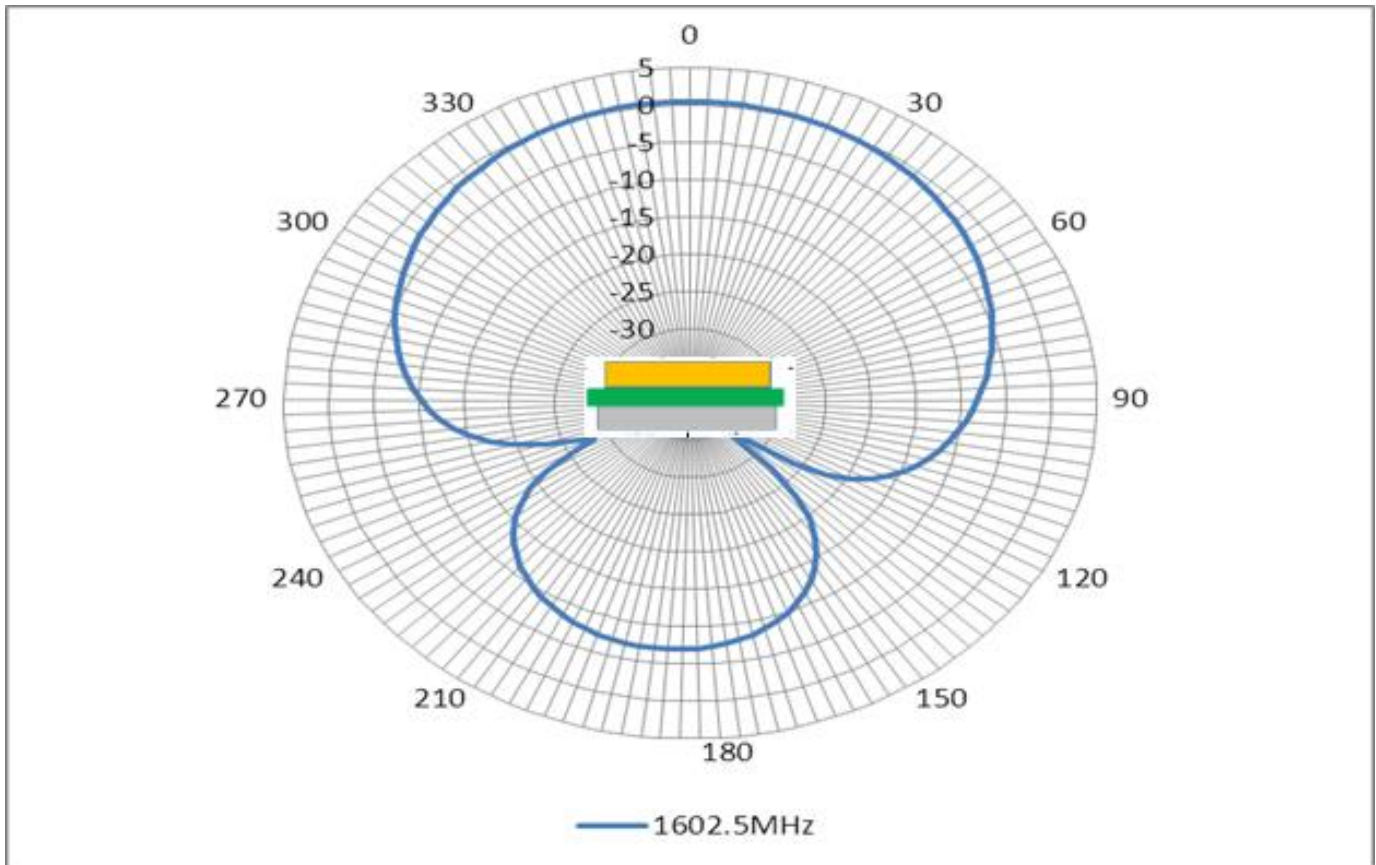
Description: 5G-FR1/WiFi/GNSS Low Profile Vehicular Multiband Antenna

Series: ARMADILLO

PART NUMBER: ARM5GXXXXDM

CHARTS

Radiation Pattern (70mm x 70mm ground plane) GLONASS



WiFi3 YZ plane radiation pattern

Issue: 2111

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Description: 5G-FR1/WiFi/GNSS Low Profile
Vehicular Multiband Antenna

Series: ARMADILLO

PART NUMBER: ARM5GXXXXDM

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.

单击下面可查看定价，库存，交付和生命周期等信息

[>>Pulse\(普思\)](#)