

**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: 2150

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#### For more information:

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Tel: 1-360-944-7551

Europe Headquarters  
Pulse GmbH & Co, KG  
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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

**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	5G Cable Leads	WiFi Cable Leads	GNSS 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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**PART NUMBER: ARM5GXXXXXDM**

**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		2	3	4	5	6	7

1	Product ID: ARMADILLO
2	Total Number of Cable leads
3	Total Number of 5G NR Cable Leads
4	Total Number of WiFi Cable Leads
5	Total Number of GNSS 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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### ELECTRICAL SPECIFICATIONS

Frequency 5G-FR1/LTE	617-960MHz, 1710-6000MHz
Frequency WiFi	2400-2500MHz, 5150-5925MHz
Nominal Impedance	50 $\Omega$
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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### 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

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

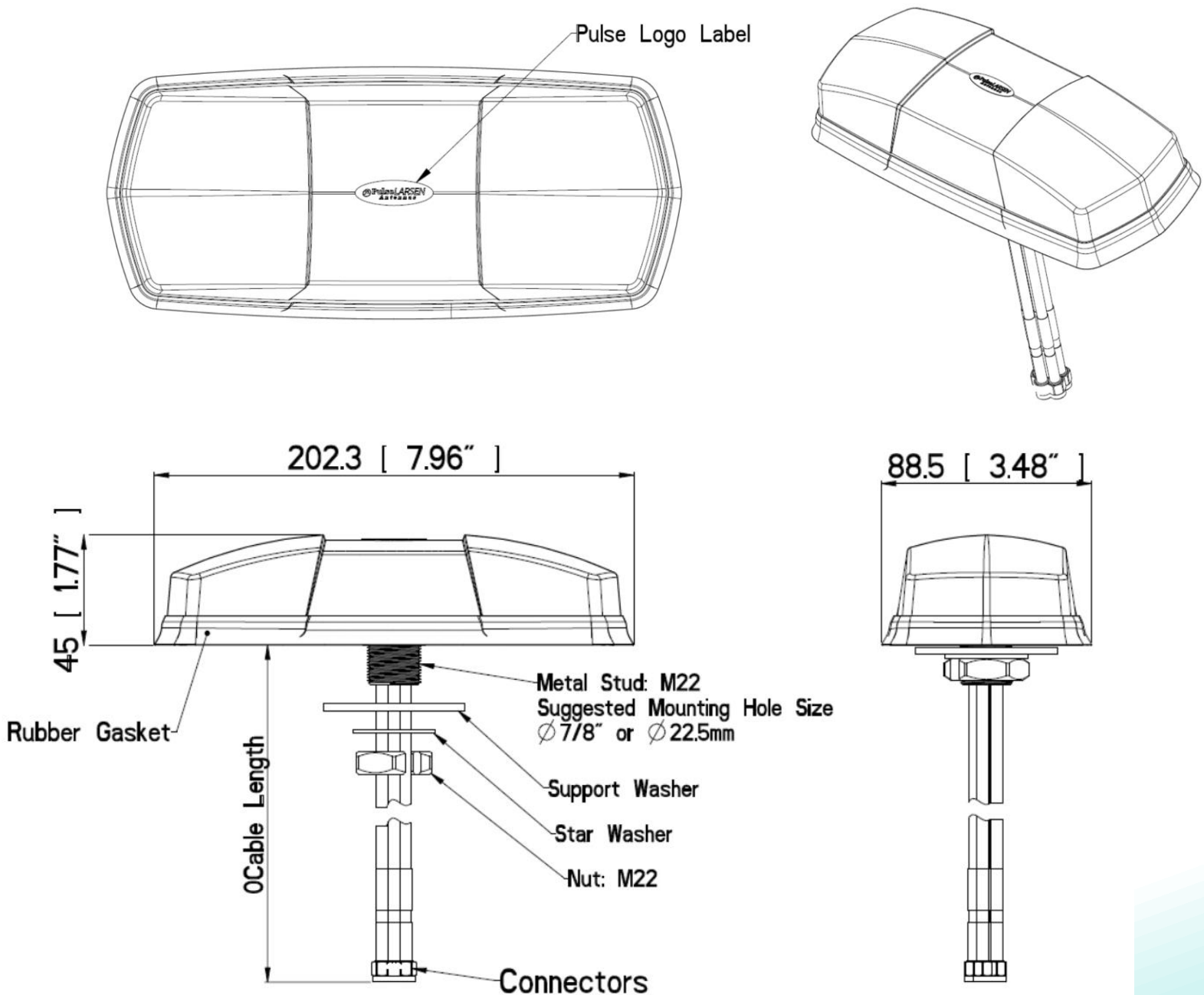
Total cable assembly loss for 5.2m (17') LMR-195 @850MHz	2.1dB
Total cable assembly loss for 5.2m (17') LMR-100 @1575MHz	5.9dB
Total cable assembly loss for 5.2m (17') LMR-195 @1930MHz	3.2dB
Total cable assembly loss for 5.2m (17') LMR-195 @2450MHz	3.6dB
Total cable assembly loss for 5.2m (17') LMR-195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

Series: ARMADILLO

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### MECHANICAL DRAWING



Issue: 2150

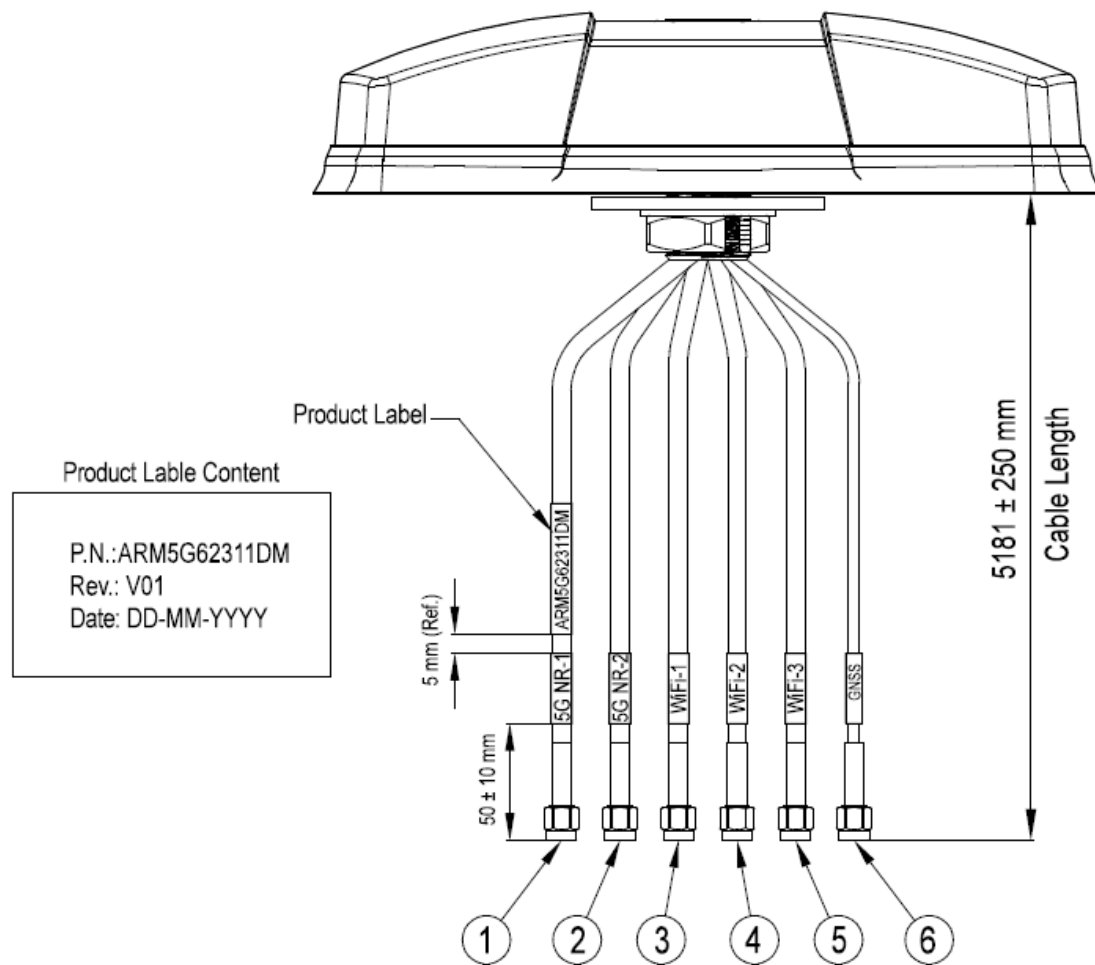
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## MECHANICAL DRAWING



ARM5G62311DM		CABLE	CABLE LENGTH	CONNECTOR
1	5G NR-1 Cable Assy	LMR-195 *	5181 mm / 204" / 17 FT	SMA Male
2	5G NR-2 Cable Assy			
3	WiFi-1 Cable Assy	LMR-195*		RP-SMA Male
4	WiFi-2 Cable Assy			
5	WiFi-3 Cable Assy			
6	GNSS Cable Assy	LMR-100*		SMA Male

\* or equivalent



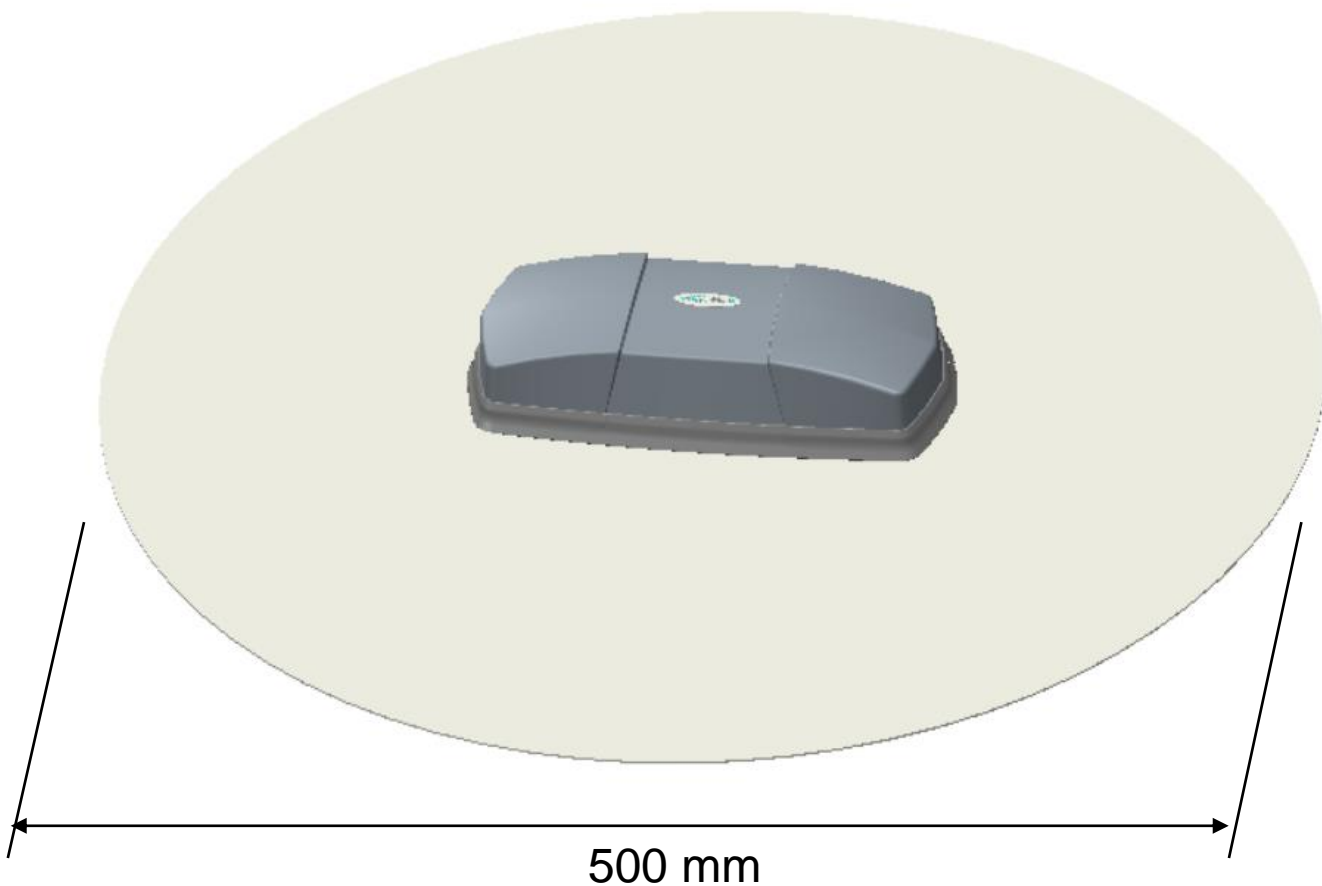
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## TEST SETUP

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



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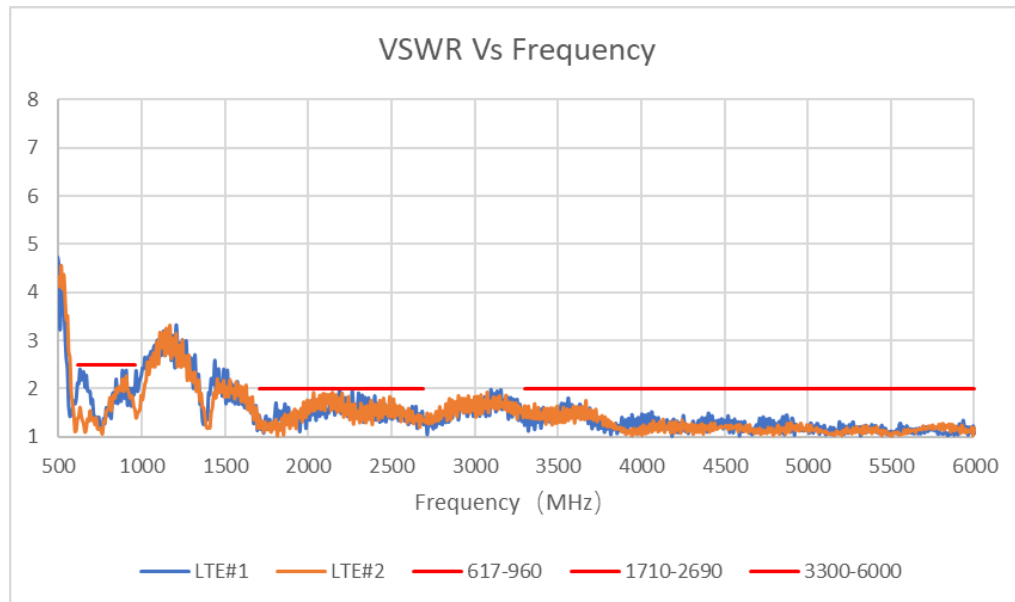
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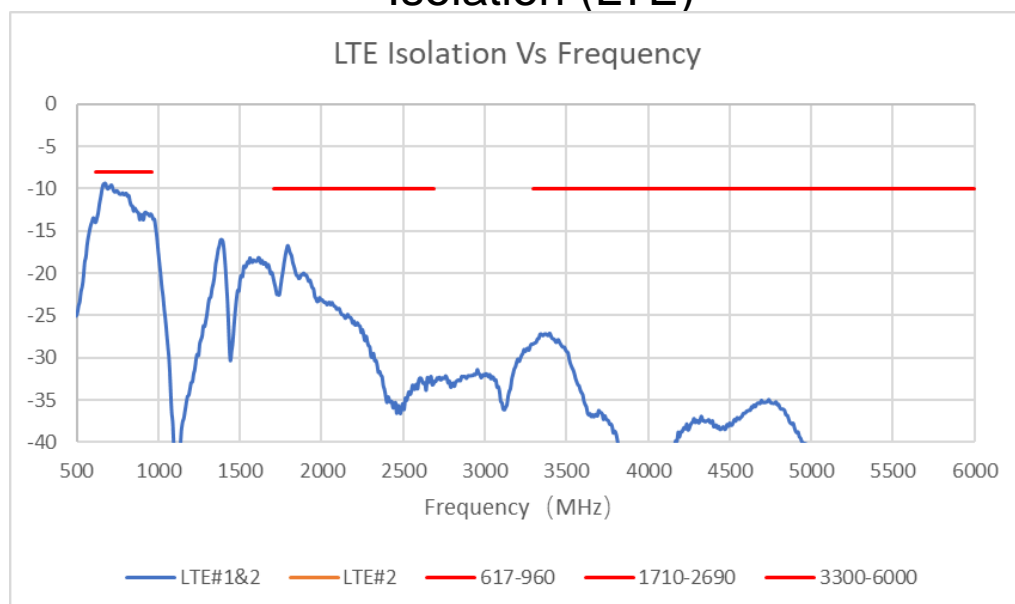
**PART NUMBER: ARM5GXXXXDM**

### CHARTS

#### VSWR (LTE)



#### Isolation (LTE)



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

Issue: 2150

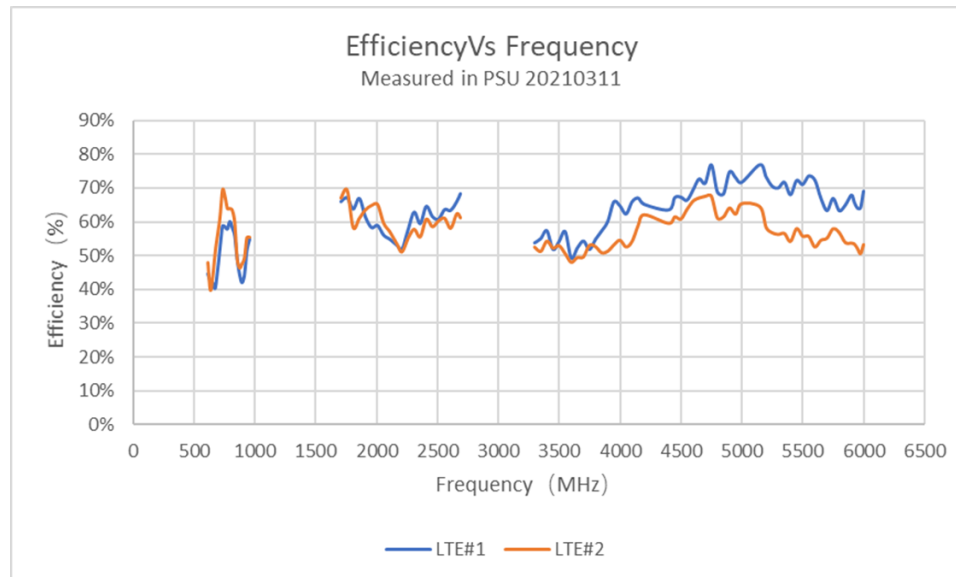
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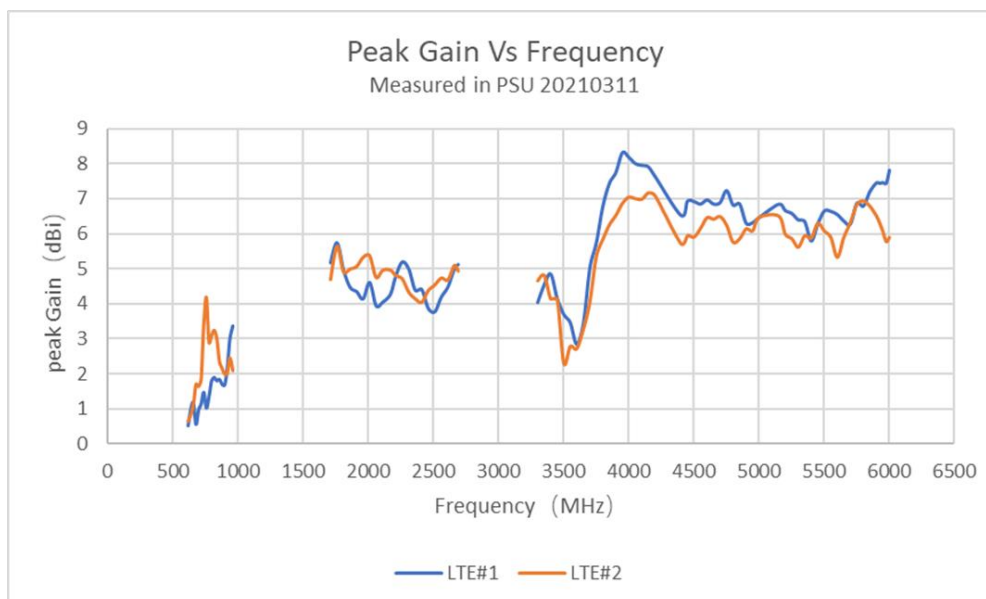
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## CHARTS

### Radiation Efficiency (LTE)



### Peak Gain (LTE)



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

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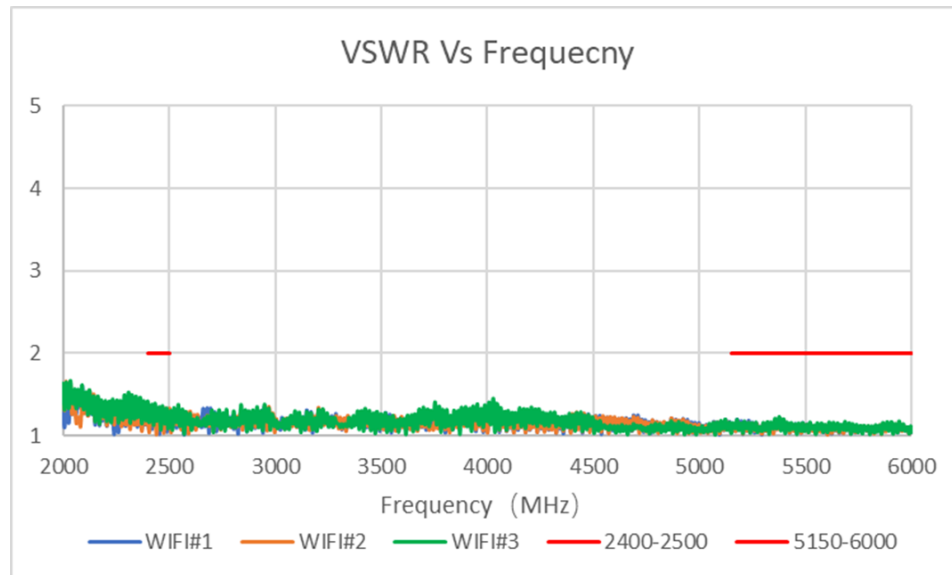
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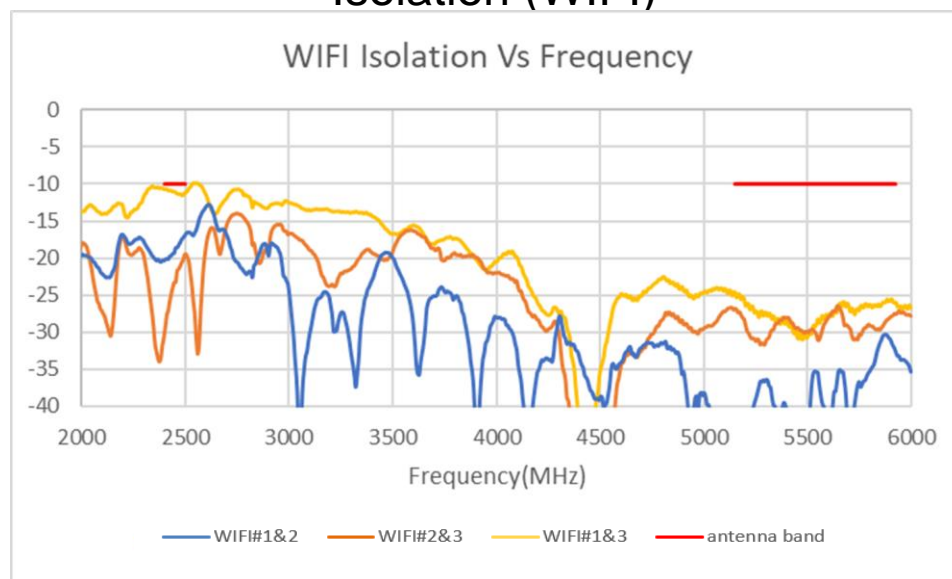
**PART NUMBER:** ARM5GXXXXDM

### CHARTS

#### VSWR (WIFI)



#### Isolation (WIFI)



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

Issue: 2150

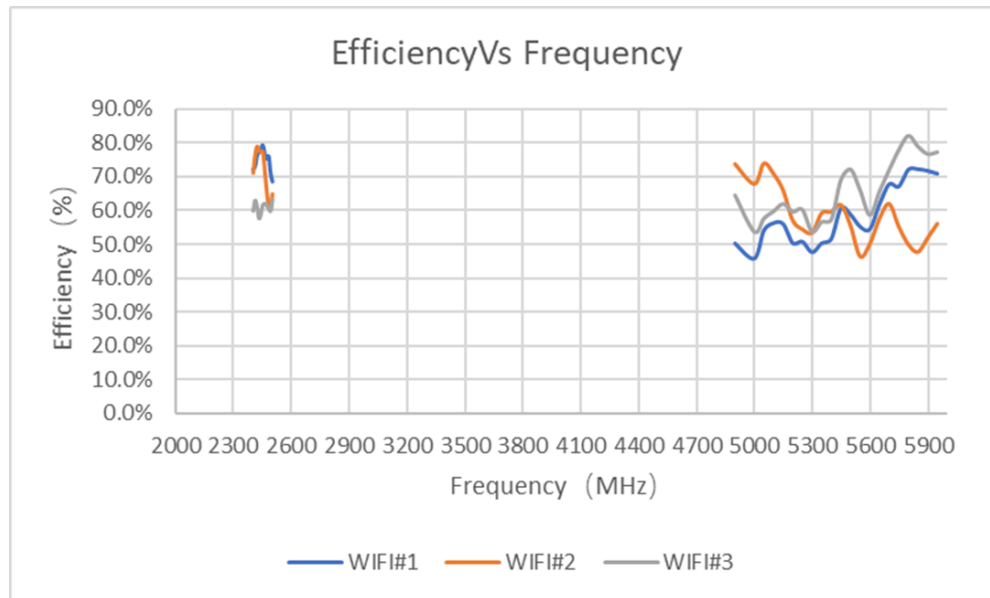
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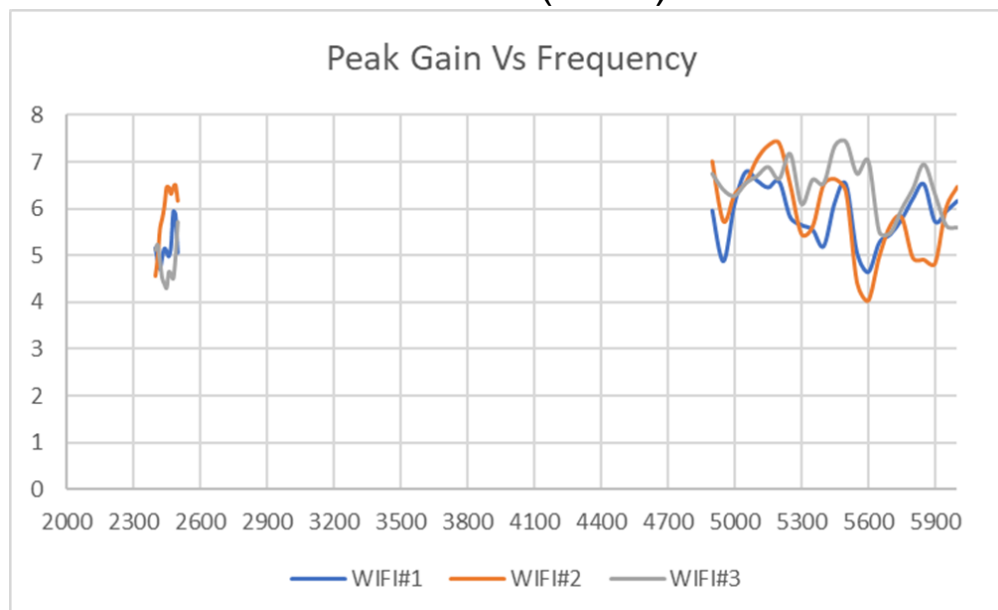
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## CHARTS

### Radiation Efficiency (WIFI)



### Peak Gain (WIFI)



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

Issue: 2150

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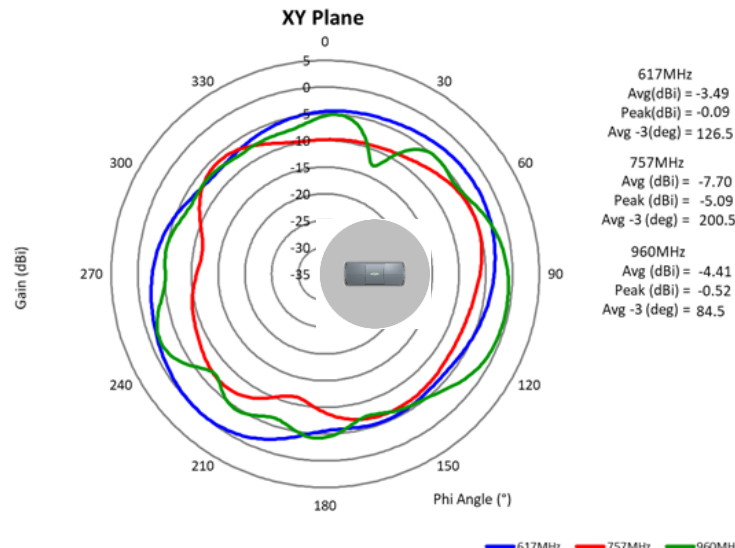
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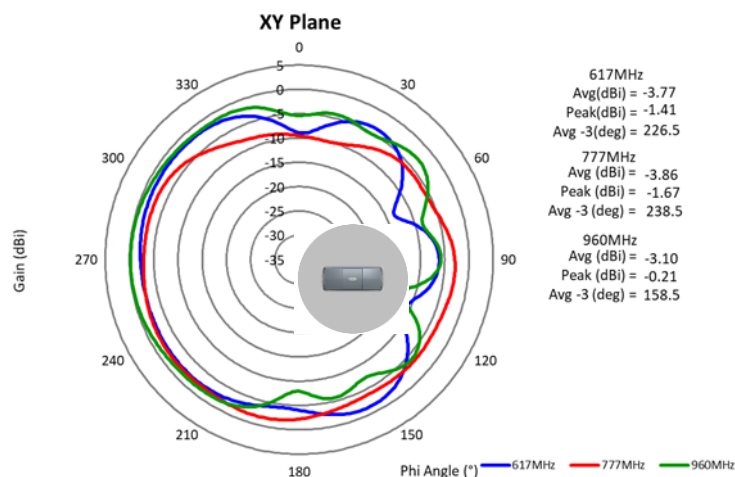
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## CHARTS



LTE1 XY plane radiation pattern



LTE2 XY plane radiation pattern

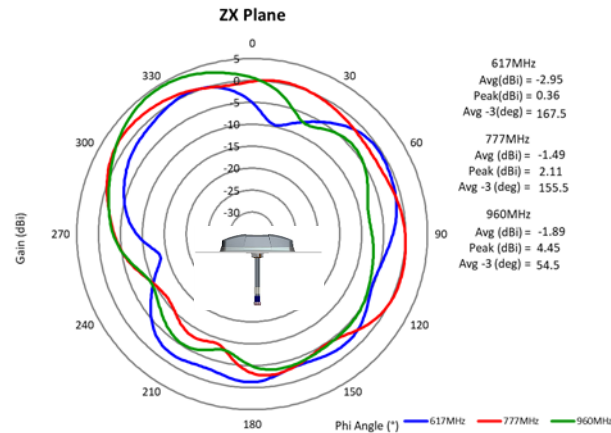
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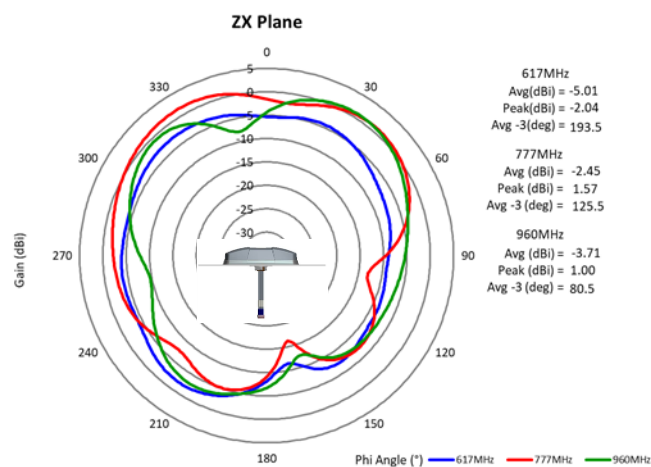
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## CHARTS



LTE1 ZX plane radiation pattern



LTE2 ZX plane radiation pattern

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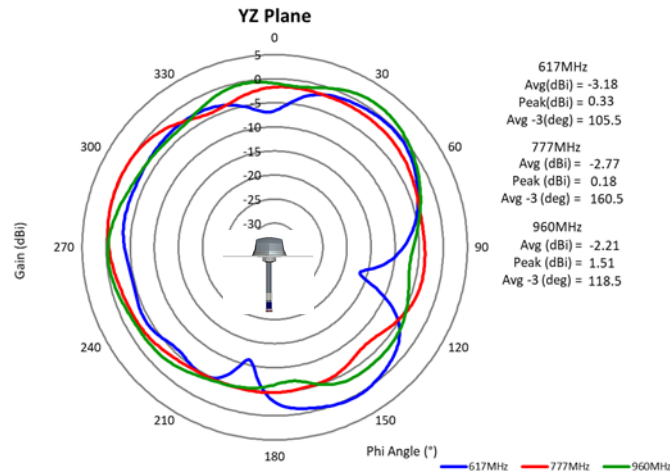


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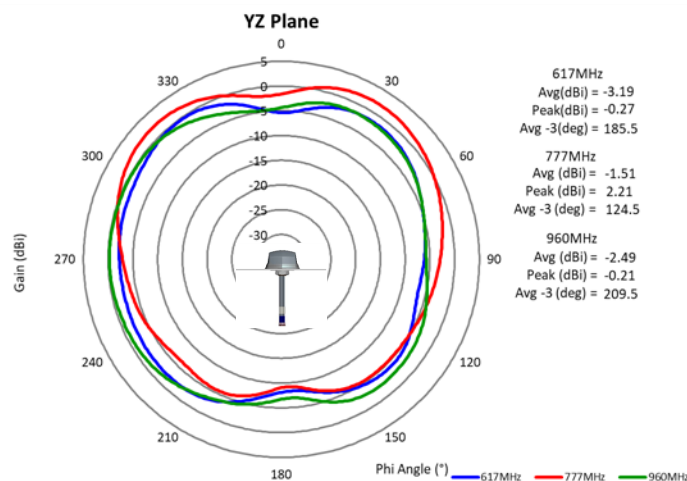
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## CHARTS



LTE1 YZ plane radiation pattern



LTE2 YZ plane radiation pattern

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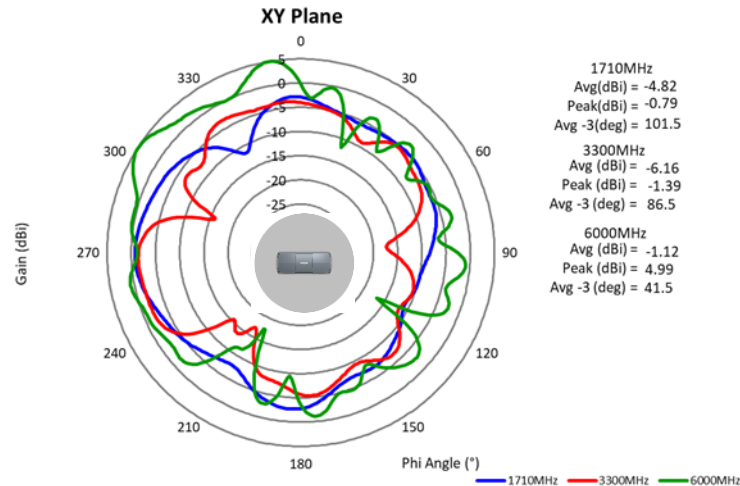
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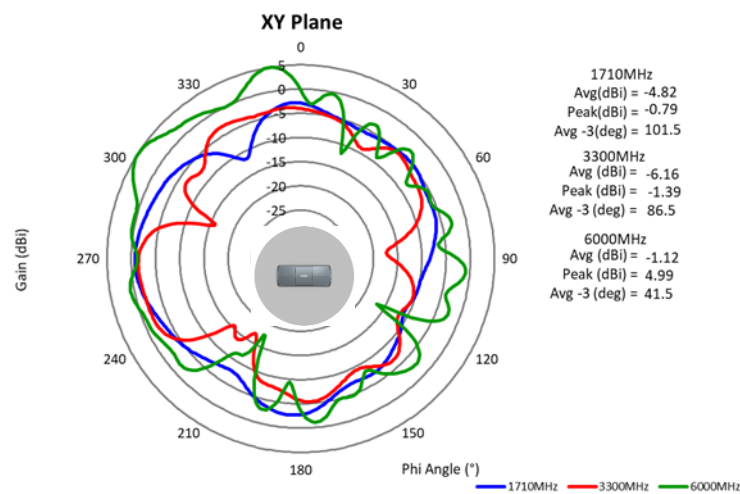
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## CHARTS



LTE1 XY plane radiation pattern



LTE2 XY plane radiation pattern

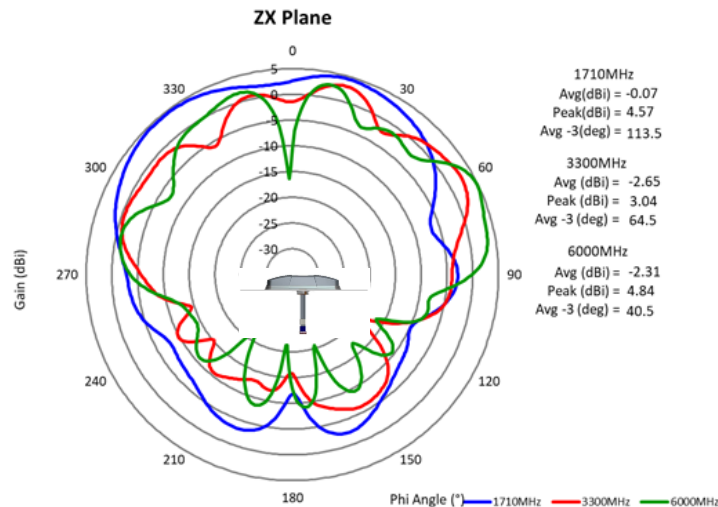
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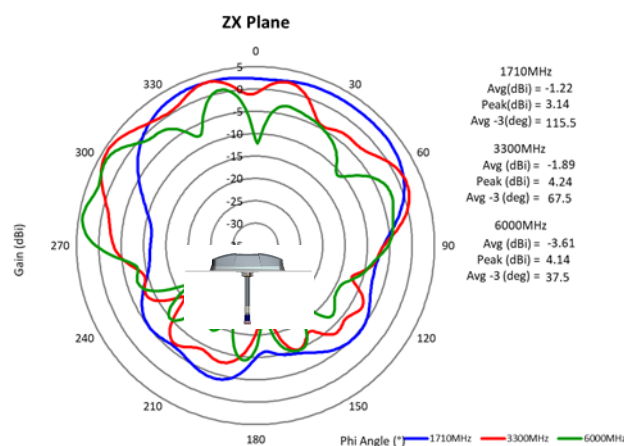
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## CHARTS



LTE1 ZX plane radiation pattern



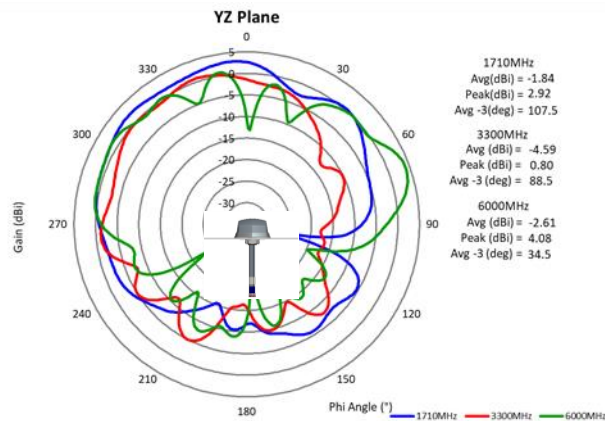
LTE2 ZX plane radiation pattern

Series: ARMADILLO

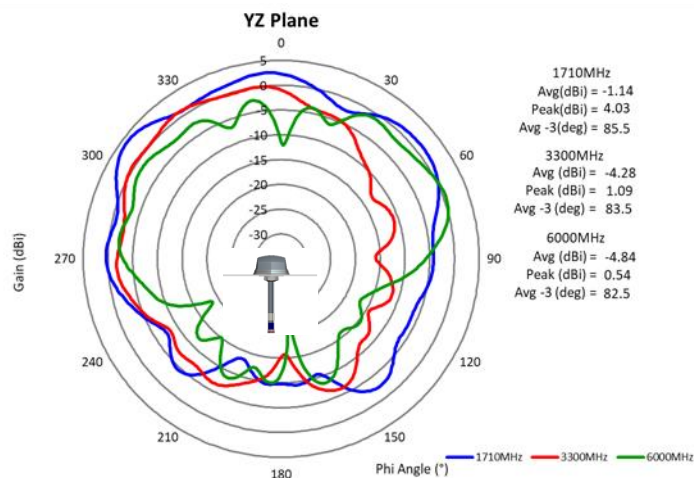
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## CHARTS



LTE1 YZ plane radiation pattern



LTE2 YZ plane radiation pattern

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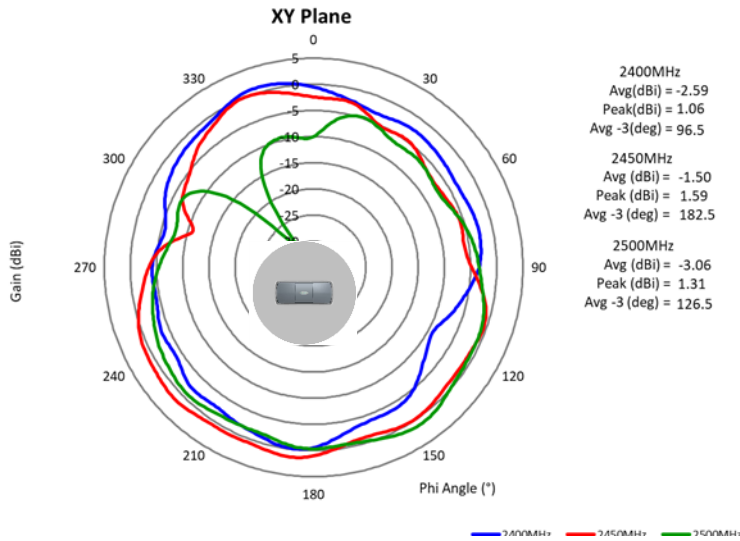
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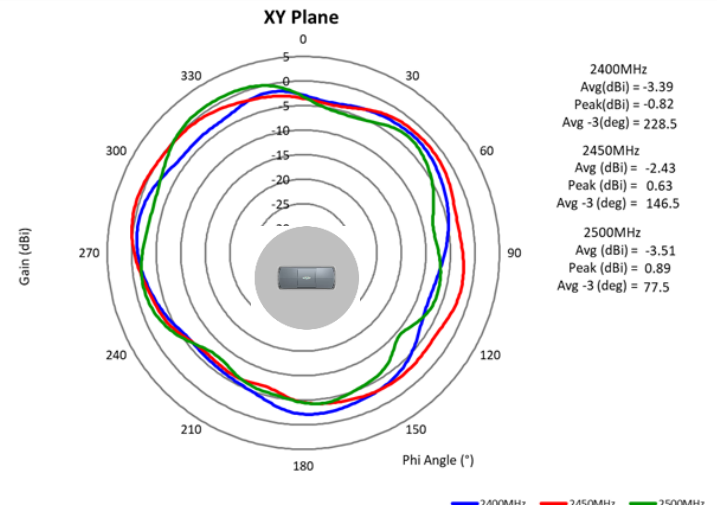
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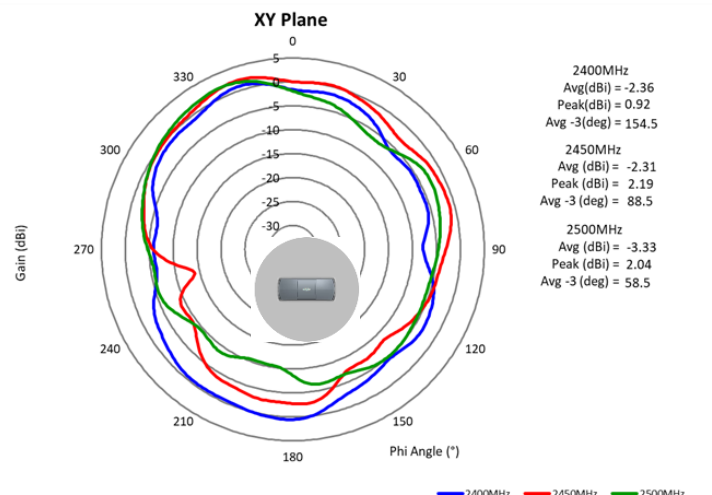
## CHARTS



WiFi1 XY plane radiation pattern



WiFi2 XY plane radiation pattern



WiFi3 XY plane radiation pattern

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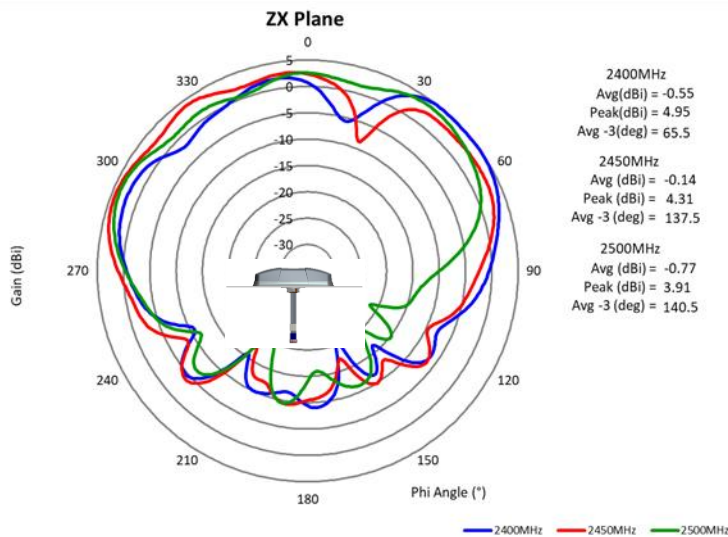


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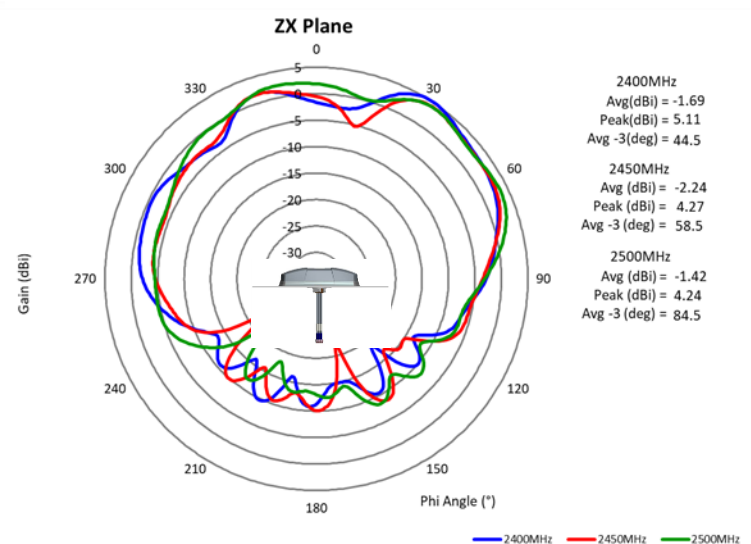
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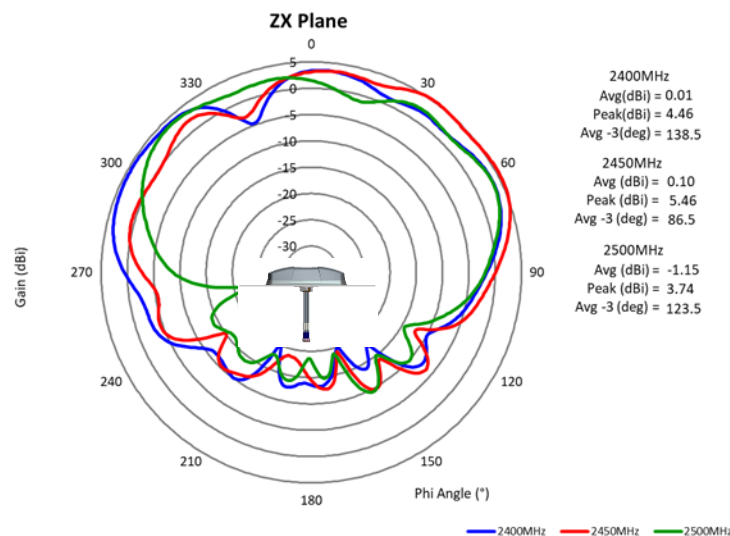
## CHARTS



WiFi1 ZX plane radiation pattern



WiFi2 ZX plane radiation pattern



WiFi3 ZX plane radiation pattern

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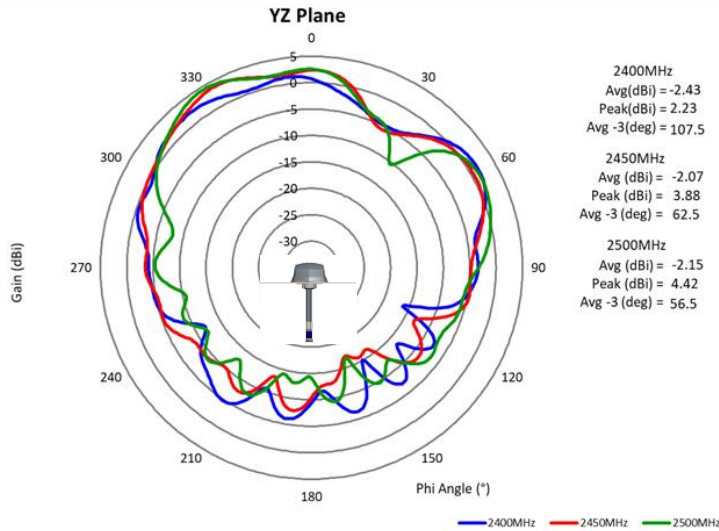
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Series: ARMADILLO

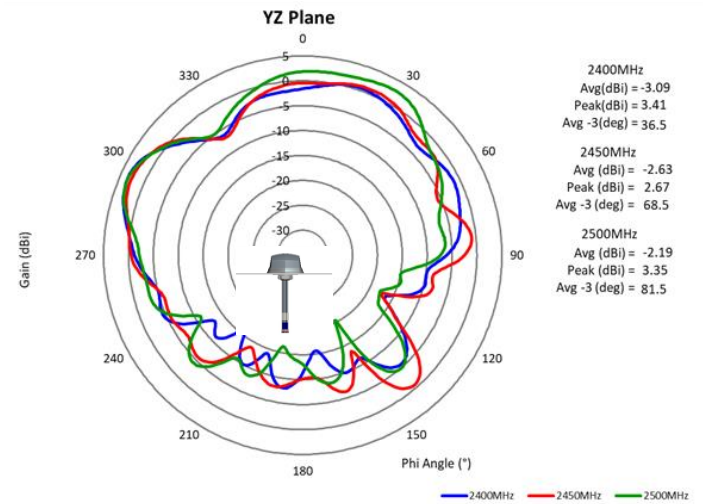
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Vehicular Multiband Antenna

PART NUMBER: ARM5GXXXXDM

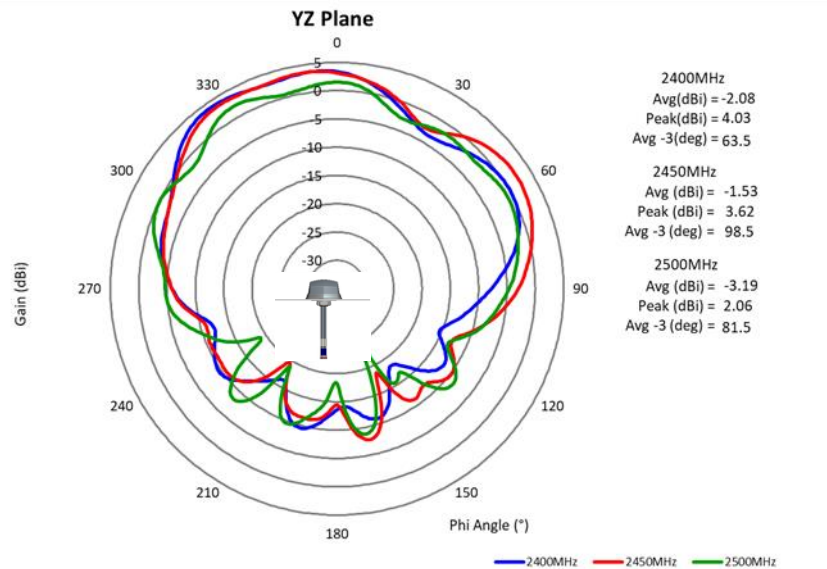
## CHARTS



WiFi1 YZ plane radiation pattern



WiFi2 YZ plane radiation pattern



WiFi3 YZ plane radiation pattern

Issue: 2150

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

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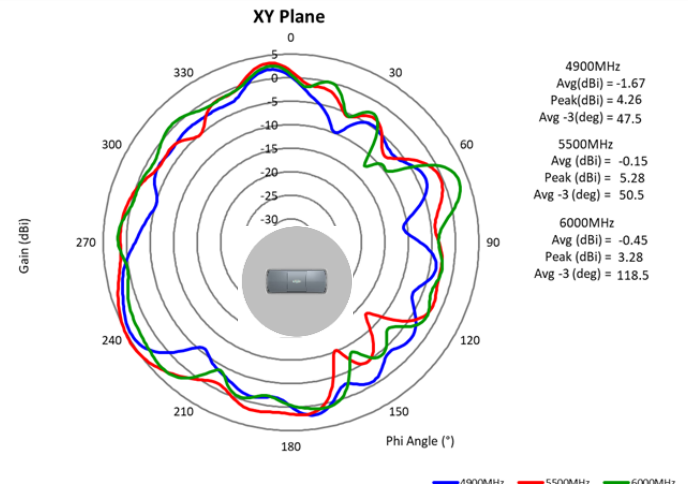
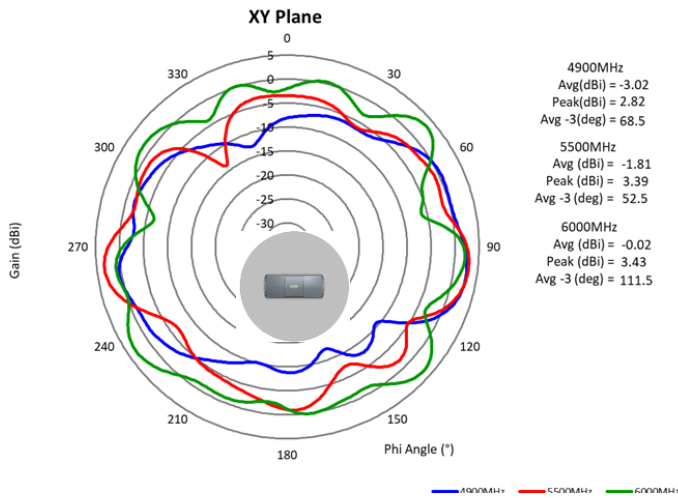


Series: ARMADILLO

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

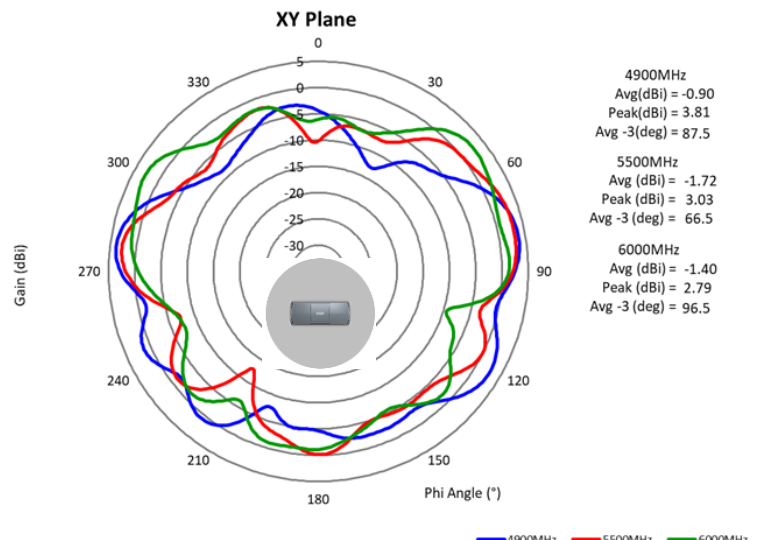
PART NUMBER: ARM5GXXXXDM

### CHARTS



WiFi1 XY plane radiation pattern

WiFi2 XY plane radiation pattern



WiFi3 XY plane radiation pattern

Issue: 2150

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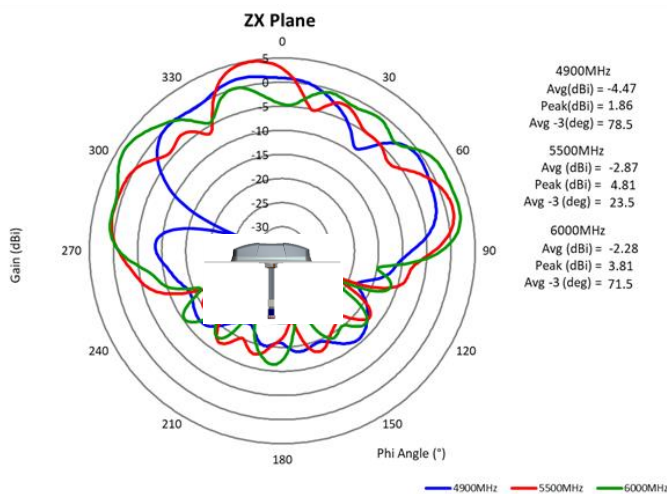
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Series: ARMADILLO

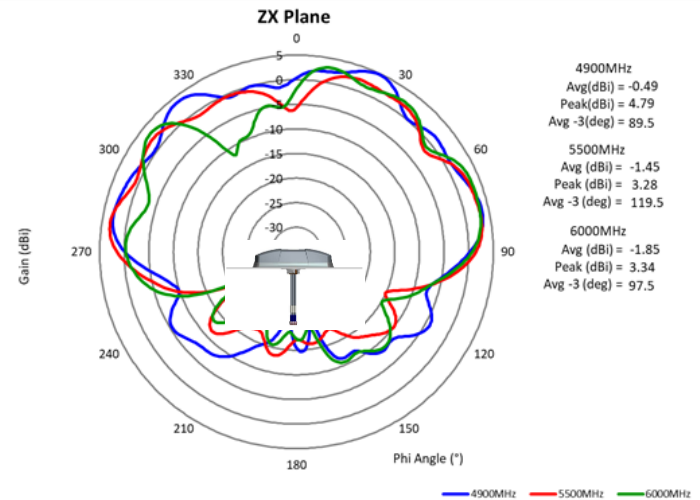
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Vehicular Multiband Antenna

PART NUMBER: ARM5GXXXXDM

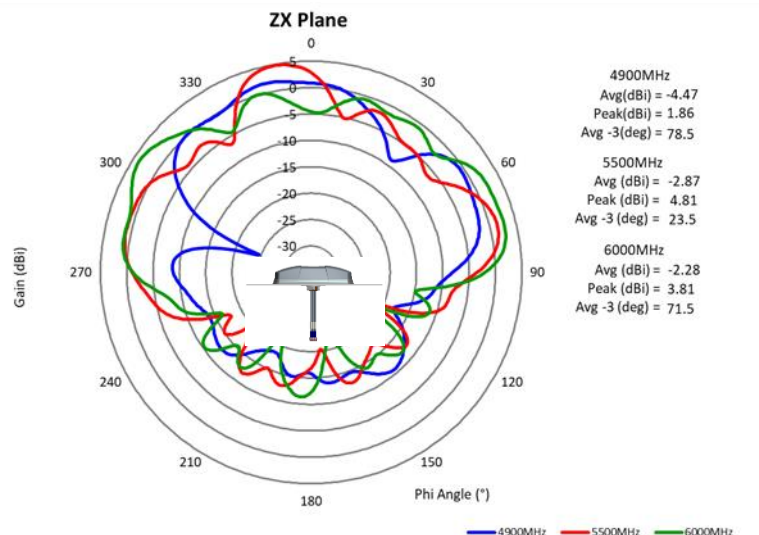
## CHARTS



WiFi1 ZX plane radiation pattern



WiFi2 ZX plane radiation pattern



WiFi3 ZX plane radiation pattern

Issue: 2150

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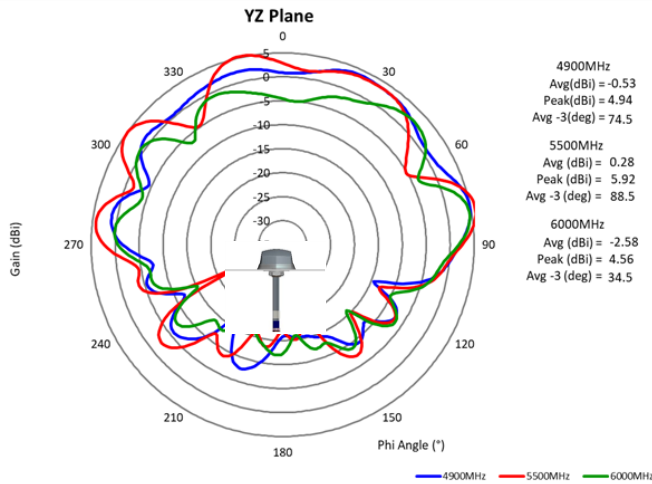
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Series: ARMADILLO

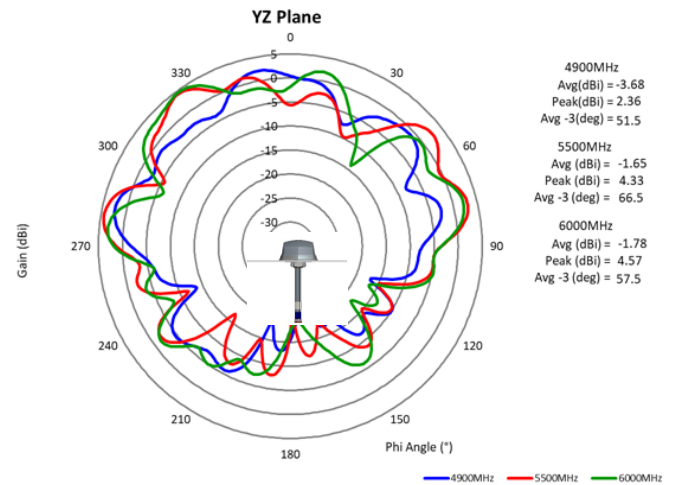
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Vehicular Multiband Antenna

PART NUMBER: ARM5GXXXXXDM

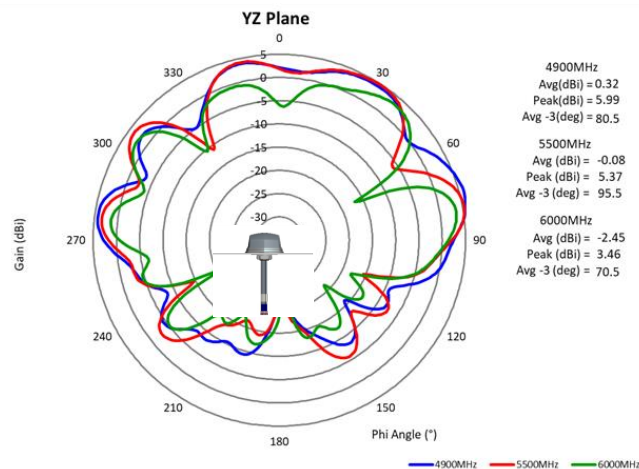
## CHARTS



WiFi1 YZ plane radiation pattern



WiFi2 YZ plane radiation pattern



WiFi3 YZ plane radiation pattern

Issue: 2150

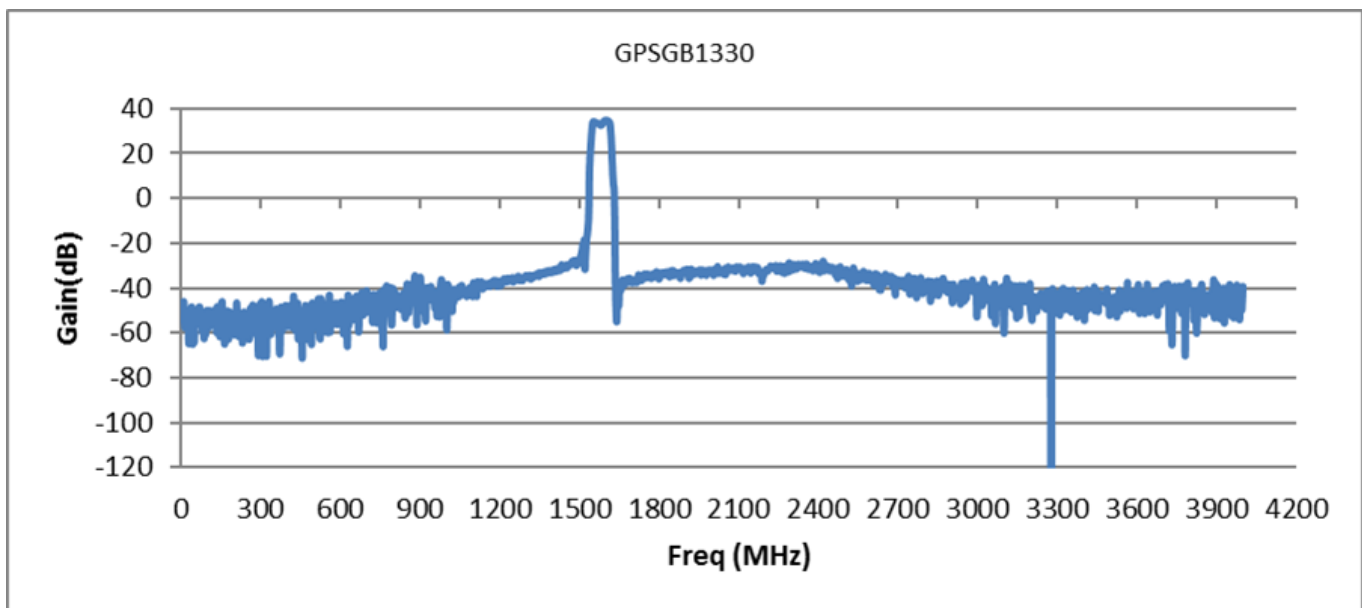
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## CHARTS

### LNA Gain and out-of-band rejection



### WiFi3 YZ plane radiation pattern

Issue: 2150

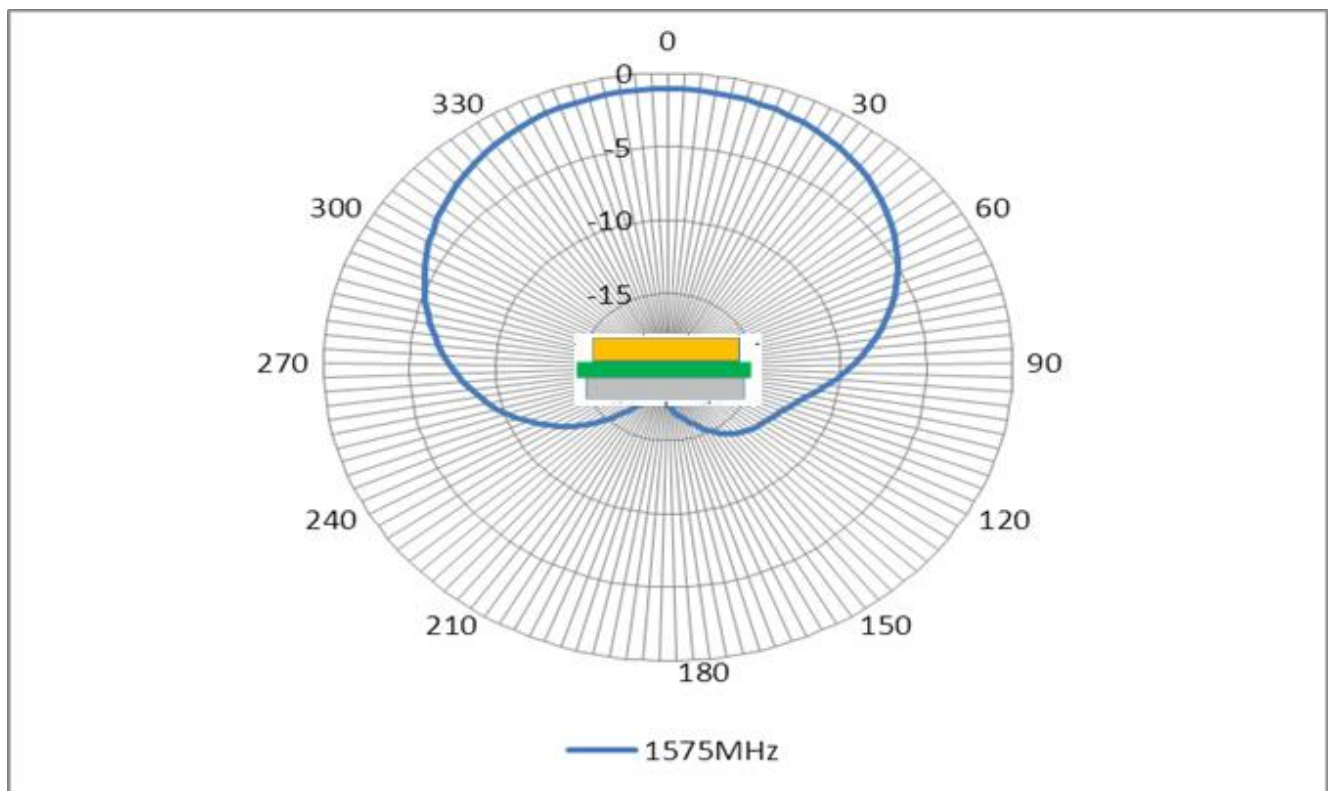
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## CHARTS

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



### WiFi3 YZ plane radiation pattern

Issue: 2150

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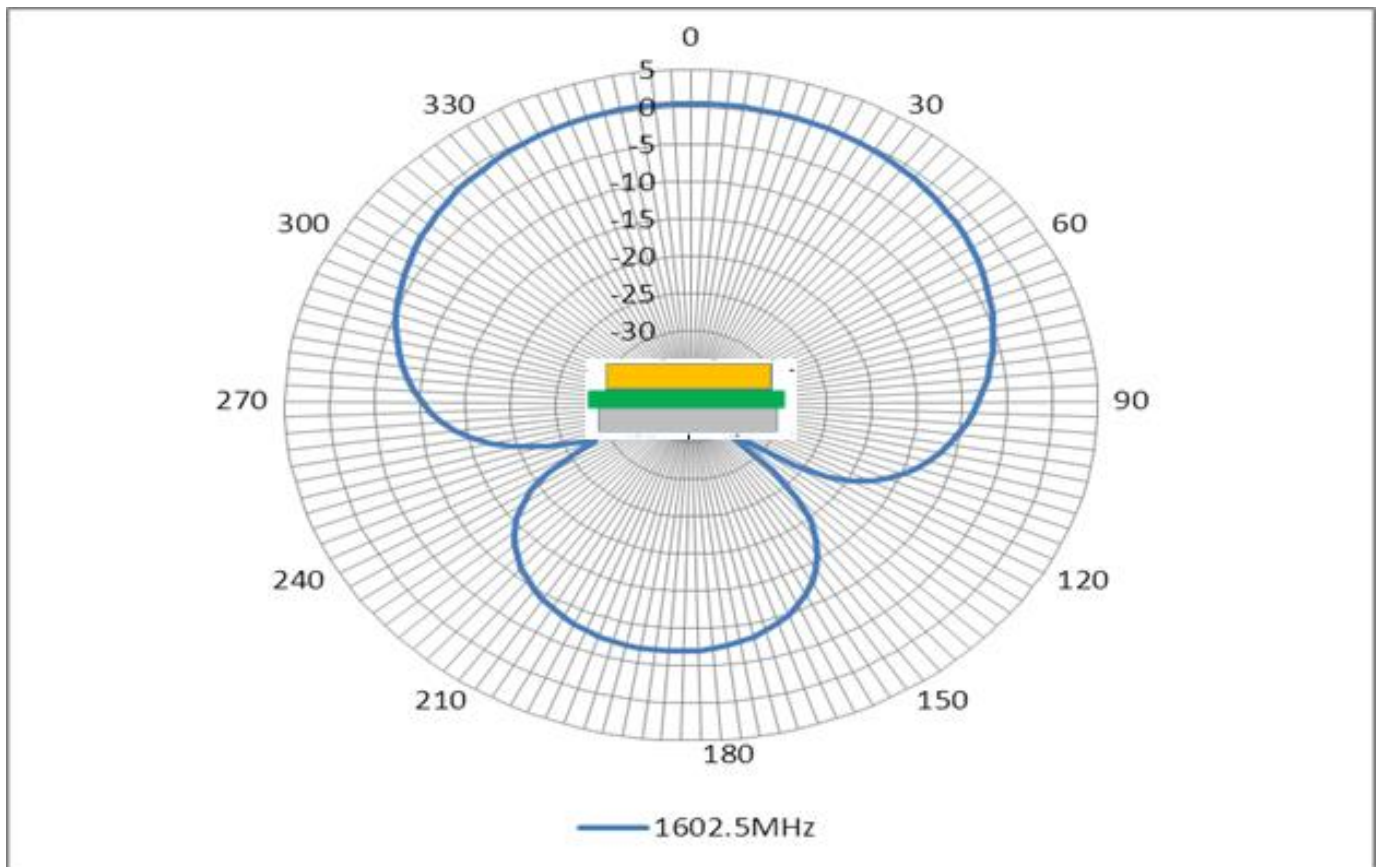
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## CHARTS

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



### WiFi3 YZ plane radiation pattern

Issue: 2150

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**Series: ARMADILLO****Description:** 5G-FR1/WiFi/GNSS Low Profile  
Vehicular Multiband Antenna**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.