

**Series: ARMADILLO**

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

**PART NUMBER: ARMXXXXDM**



**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

Issue: 2034

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For more information:

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15255 Innovation Drive #100  
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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**

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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	Cable Length	Mounting
ARM62311DM	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"
ARM62312DM	6	2 (with SMA Male)	3 (with RP-SMA Male)	1 (with SMA Male)	White		
ARM52211DM	5	2 (with SMA Male)	2 (with RP-SMA Male)	1 (with SMA Male)	Black		
ARM52212DM	5	2 (with SMA Male)	2 (with RP-SMA Male)	1 (with SMA Male)	White		
ARM42111DM	4	2 (with SMA Male)	1 (with RP-SMA Male)	1 (with SMA Male)	Black		
ARM42112DM	4	2 (with SMA Male)	1 (with RP-SMA Male)	1 (with SMA Male)	White		
ARM32011DM	3	2 (with SMA Male)	0	1 (with SMA Male)	Black		
ARM32012DM	3	2 (with SMA Male)	0	1 (with SMA Male)	White		
ARM21011DM	2	1 (with SMA Male)	0	1 (with SMA Male)	Black		
ARM21012DM	2	1 (with SMA Male)	0	1 (with SMA Male)	White		
ARM21011DMTT	2	1 (with TNC Male)	0	1 (with TNC Male)	Black		
ARM22001DM	2	2 (with SMA Male)	0	0	Black		

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Product Numbering

Vehicular Multiband Antenna with Direct Mount



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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**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;	4.9dBi
1710-2690MHz	5.3dBi
2400-2500MHz	4.6dBi
5150-5925MHz	6.6dBi
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	1.15 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**

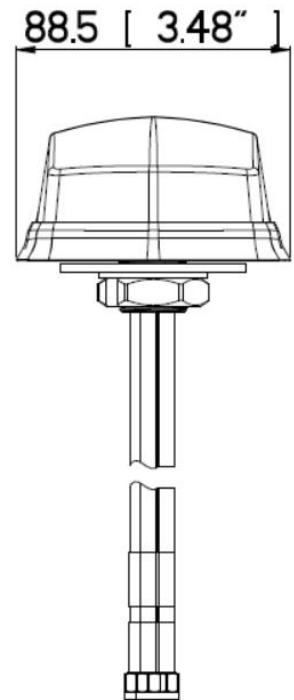
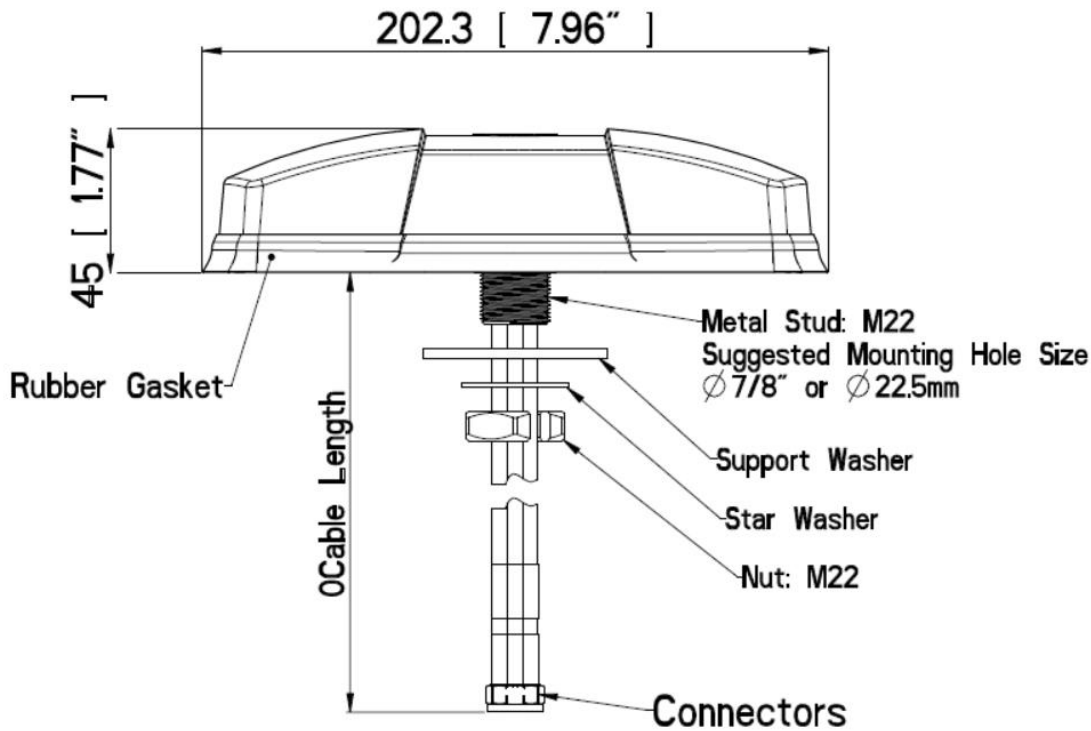
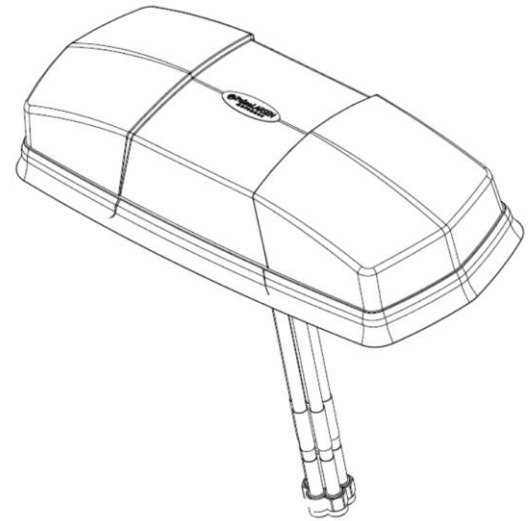
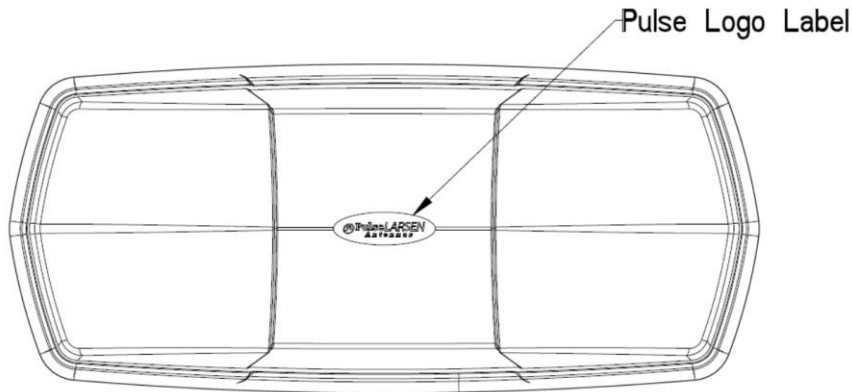
Total cable assembly loss for 5.2m (17') LMR-195 @850MHz	2.1dB
Total cable assembly loss for 5.2m (17') LMR-100 @1575MHz	5.9dB
Total cable assembly loss for 5.2m (17') LMR-195 @1930MHz	3.2dB
Total cable assembly loss for 5.2m (17') LMR-195 @2450MHz	3.6dB
Total cable assembly loss for 5.2m (17') LMR-195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

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**MECHANICAL DRAWING**



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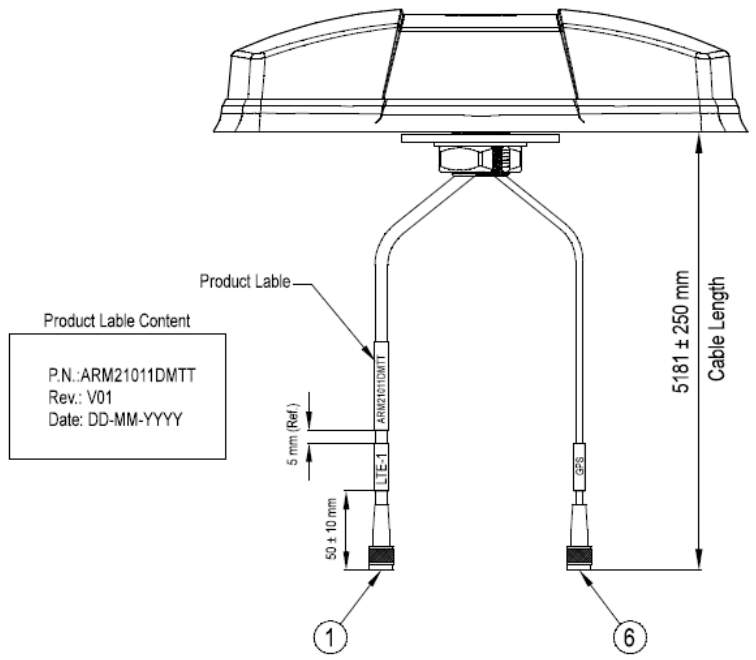
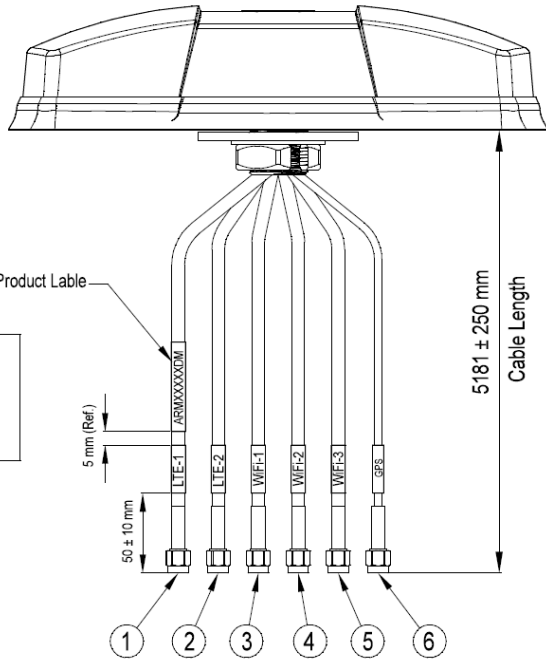
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**MECHANICAL DRAWING**



ARM62311DM		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			
4	WiFi-2 Cable Assy	LMR-195*		RP-SMA Male
5	WiFi-3 Cable Assy			
6	GPS Cable Assy	LMR-100*		SMA Male

\* or equivalent

ARM21011DMTT		CABLE	CABLE LENGTH	CONNECTOR
1	LTE-1 Cable Assy	LMR-195 *	5181 mm / 204" / 17 FT	TNC Male
2				
3				
4				
5				
6	GPS Cable Assy	LMR-100*		TNC Male

\* or equivalent

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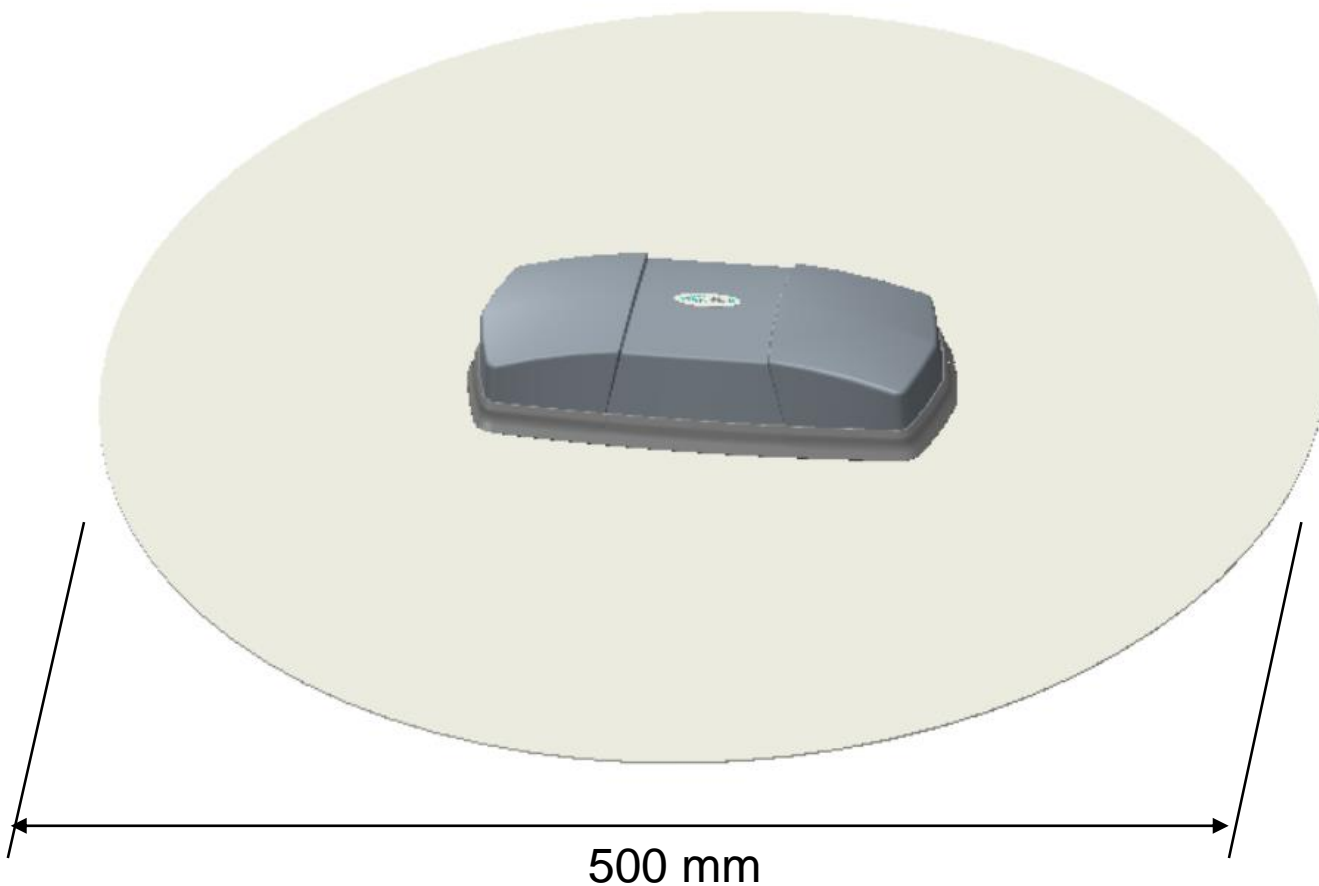
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### TEST SETUP

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



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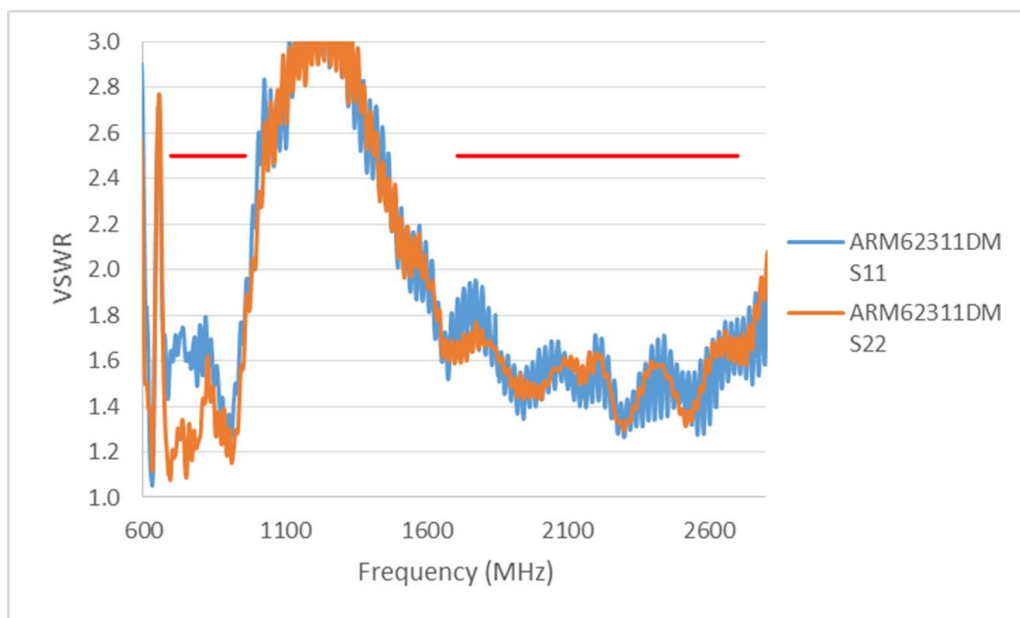
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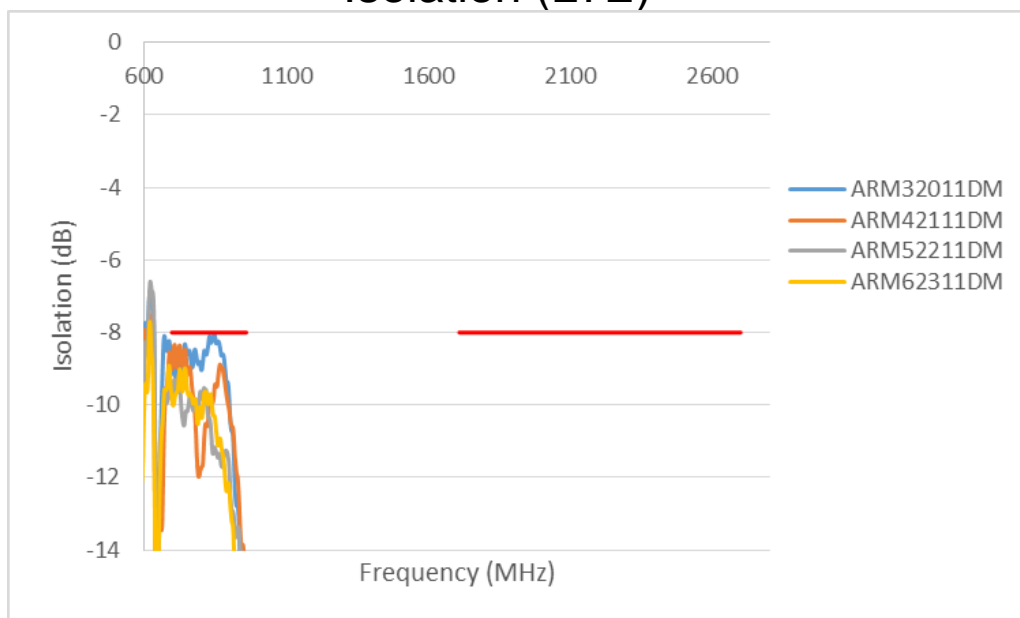
**PART NUMBER:** ARMXXXXDM

**CHARTS**

**VSWR (LTE)**



**Isolation (LTE)**



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

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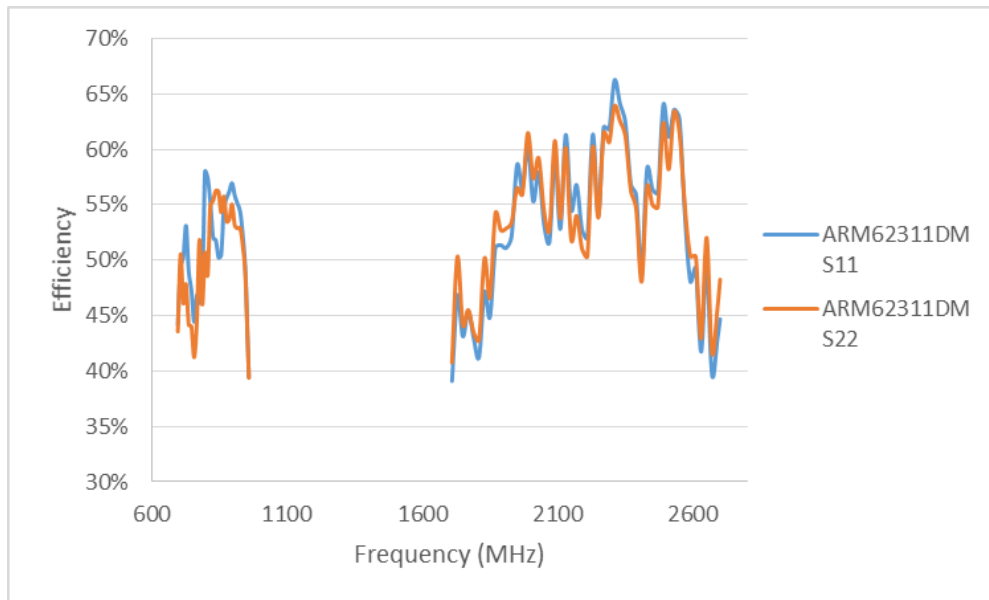
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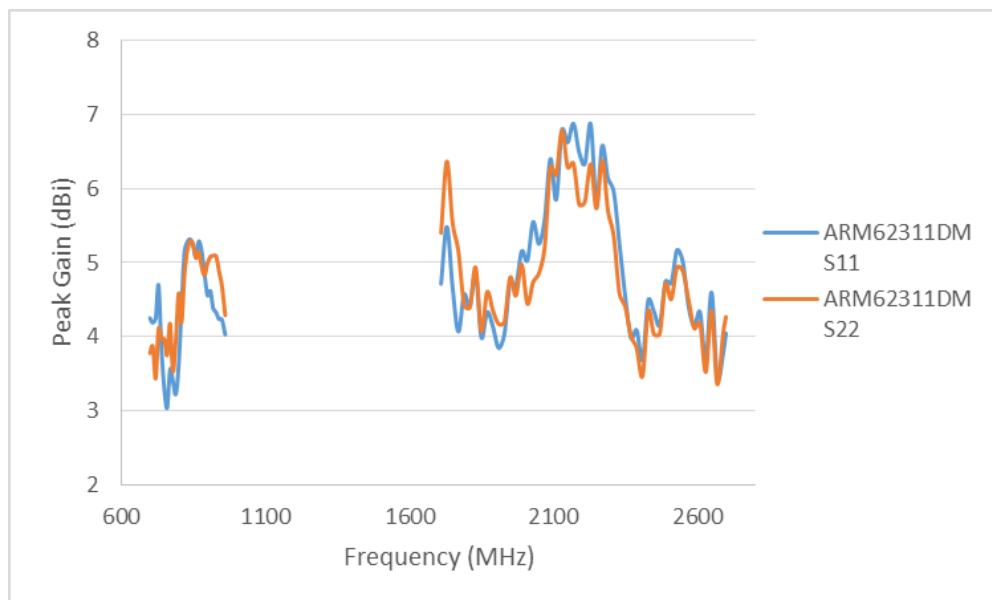
**PART NUMBER:** ARMXXXXDM

**CHARTS**

**Radiation Efficiency (LTE)**



**Peak Gain (LTE)**



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

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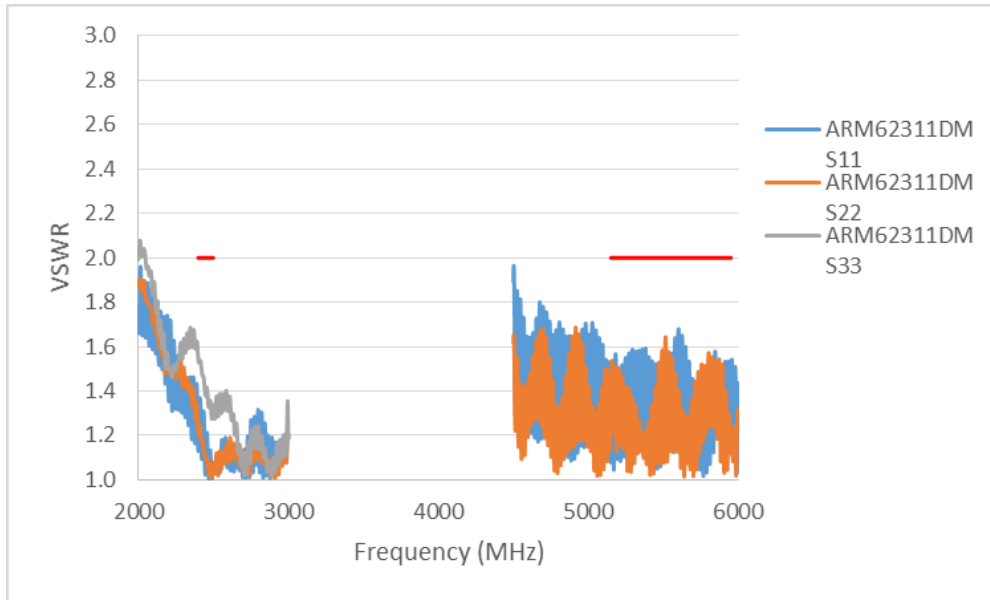
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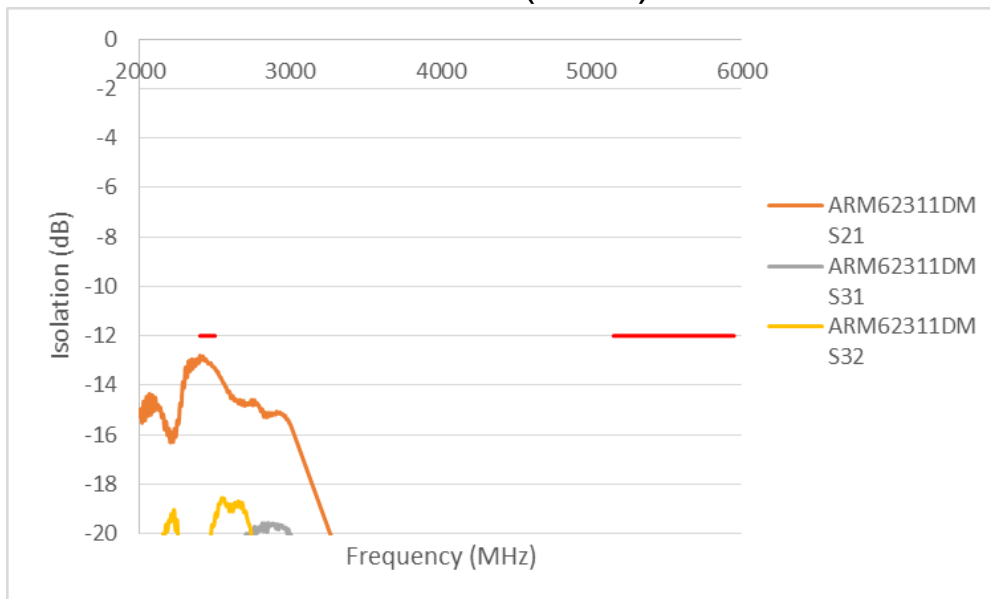
**PART NUMBER:** ARMXXXXDM

**CHARTS**

**VSWR (WIFI)**



**Isolation (WIFI)**



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

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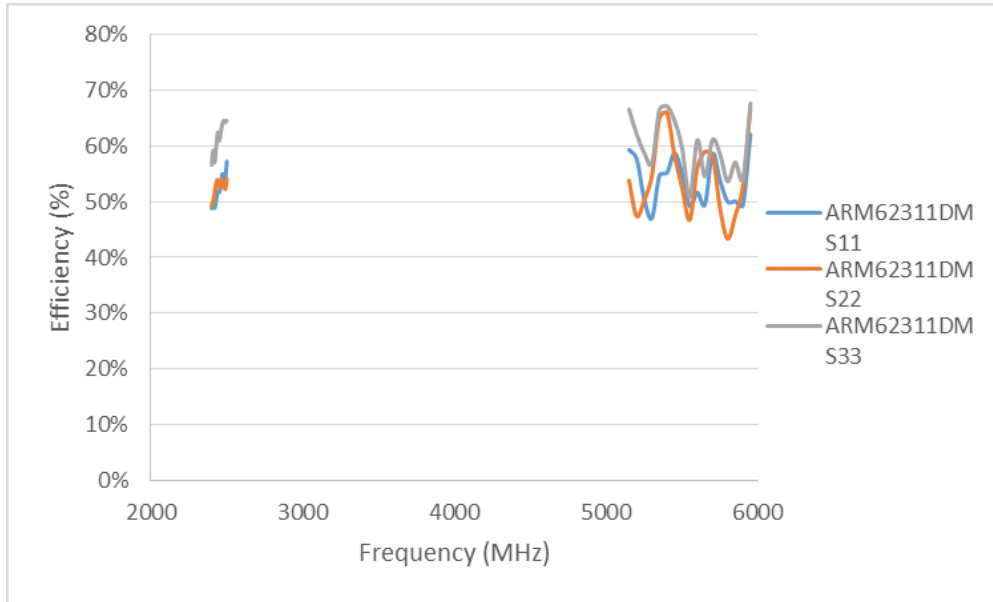
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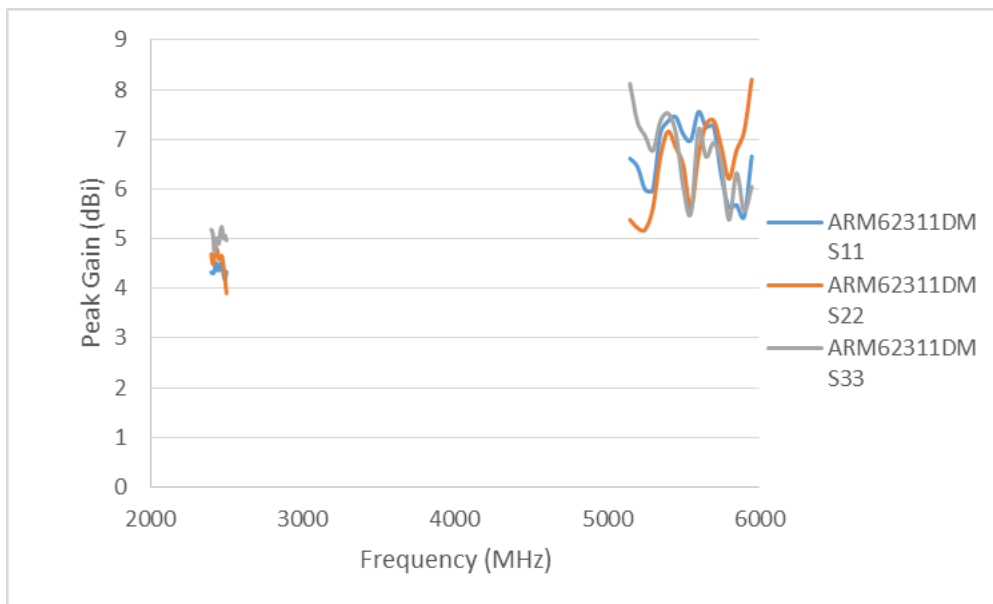
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**CHARTS**

**Radiation Efficiency (WIFI)**



**Peak Gain (WIFI)**



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

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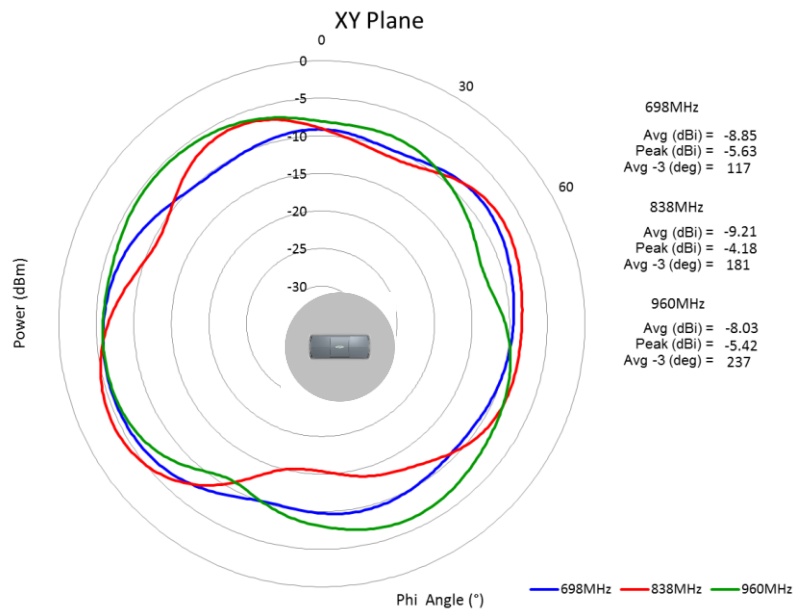
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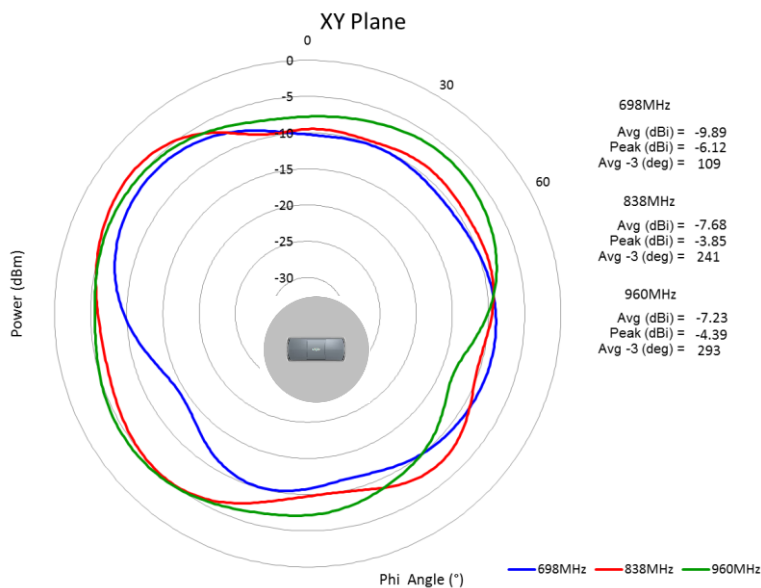
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**CHARTS**



**LTE1 XY plane radiation pattern**



**LTE2 XY plane radiation pattern**

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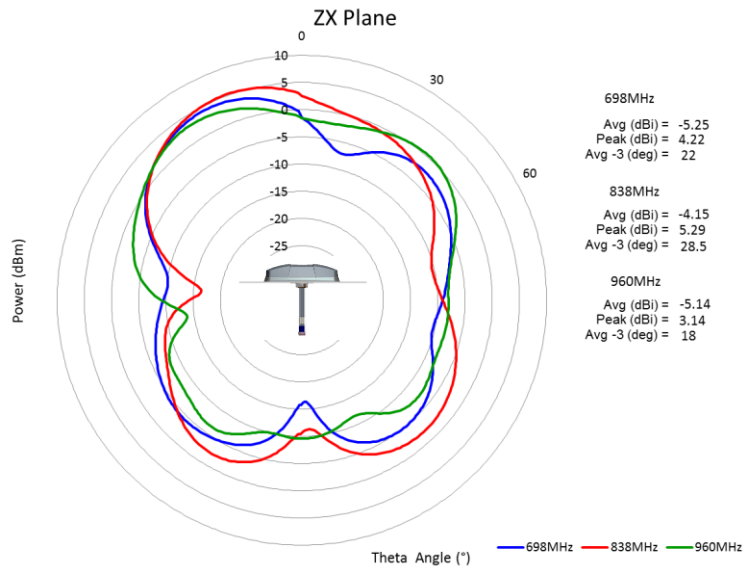
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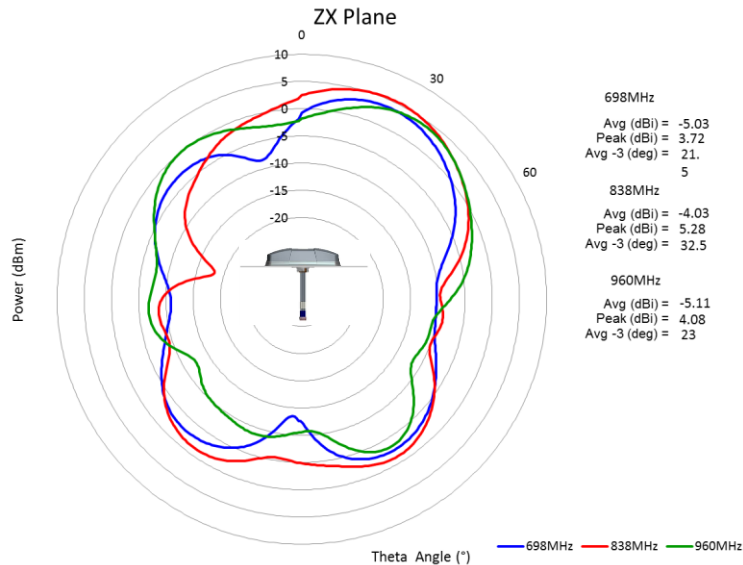
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**LTE1 ZX plane radiation pattern**



**LTE2 ZX plane radiation pattern**

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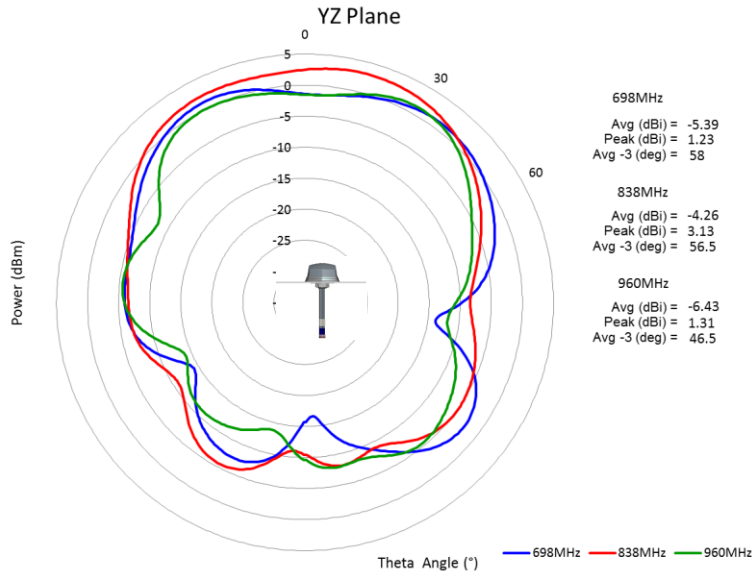
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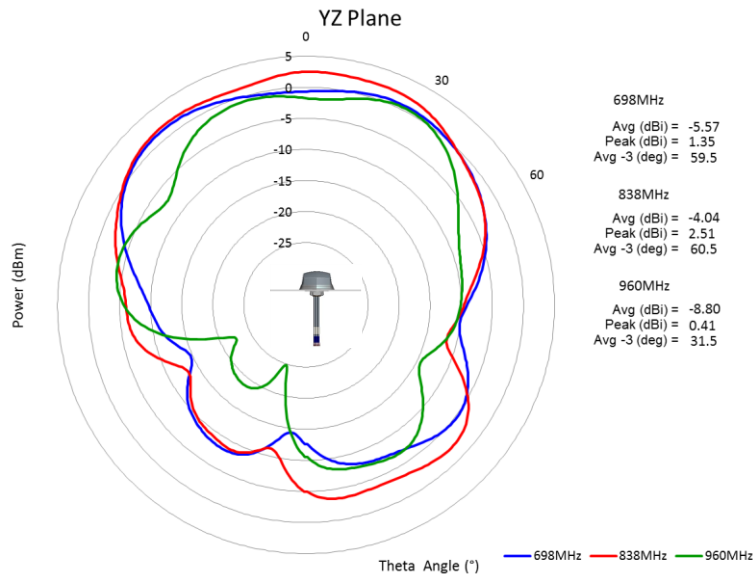
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**CHARTS**



**LTE1 YZ plane radiation pattern**



**LTE2 YZ plane radiation pattern**

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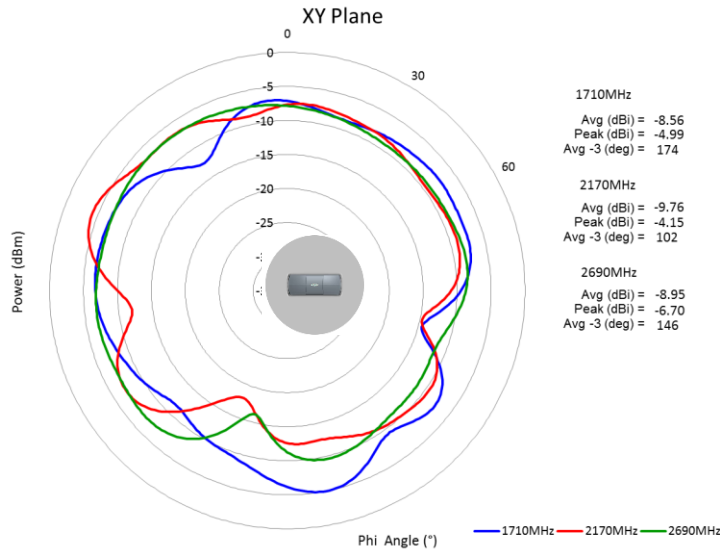


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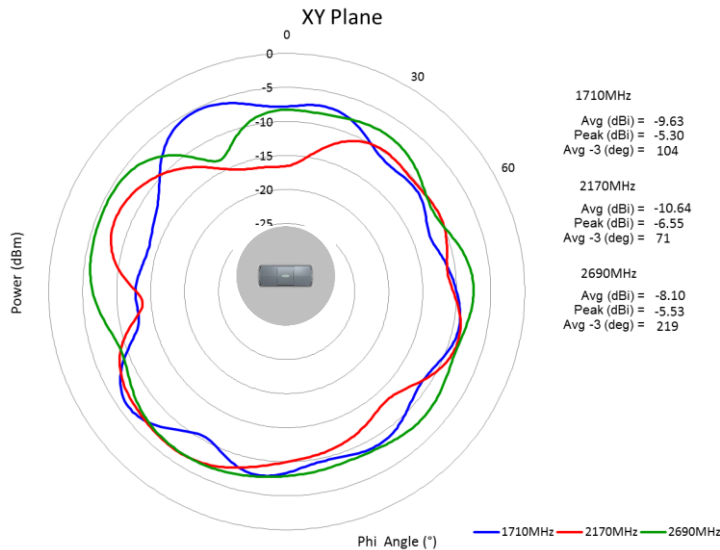
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**LTE1 XY plane radiation pattern**



**LTE2 XY plane radiation pattern**

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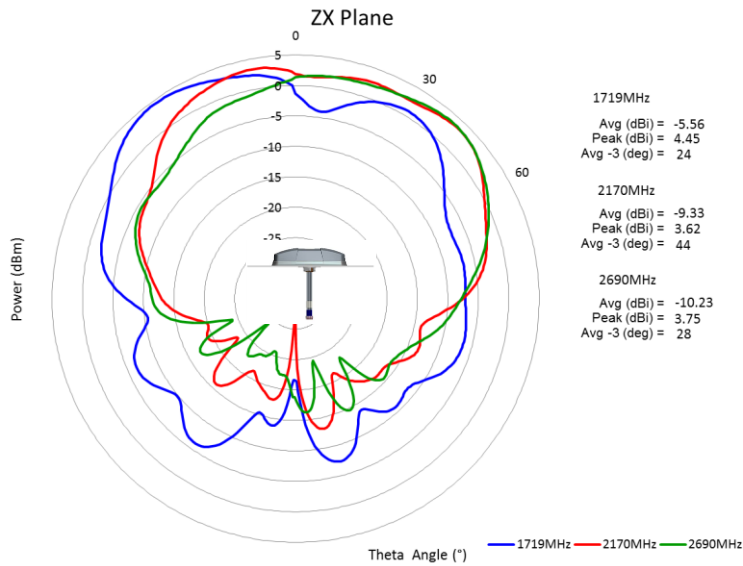
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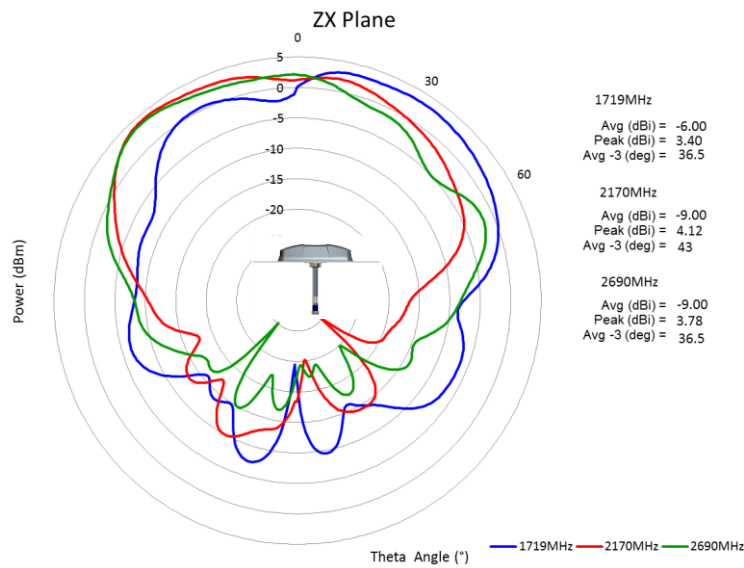
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**LTE1 ZX plane radiation pattern**



**LTE2 ZX plane radiation pattern**

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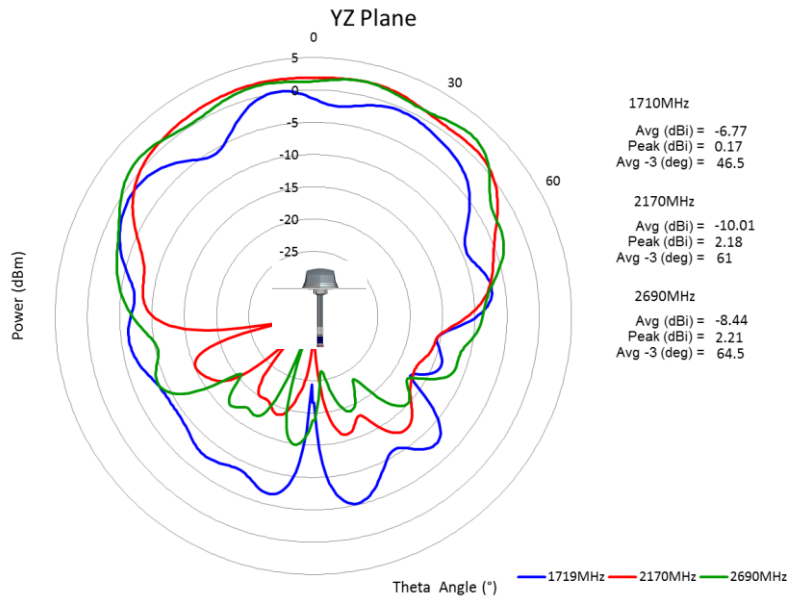
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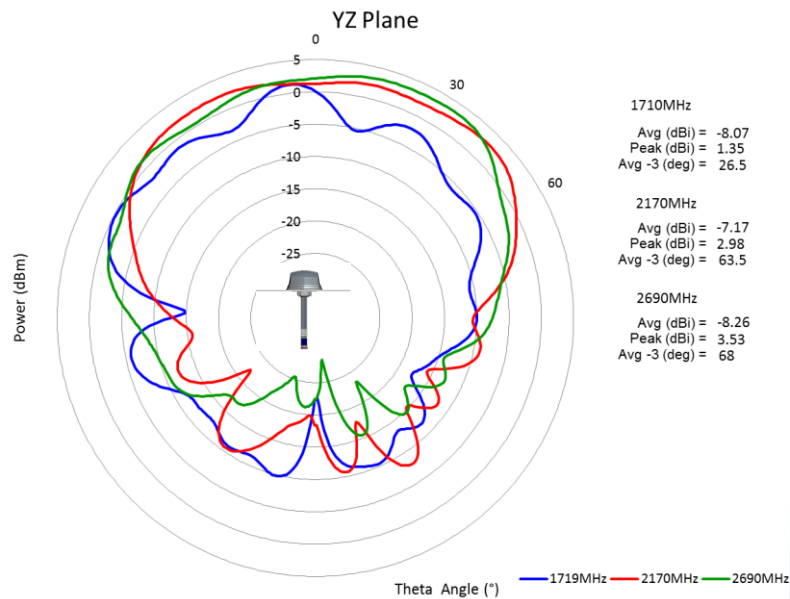
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**LTE1 YZ plane radiation pattern**



**LTE2 YZ plane radiation pattern**

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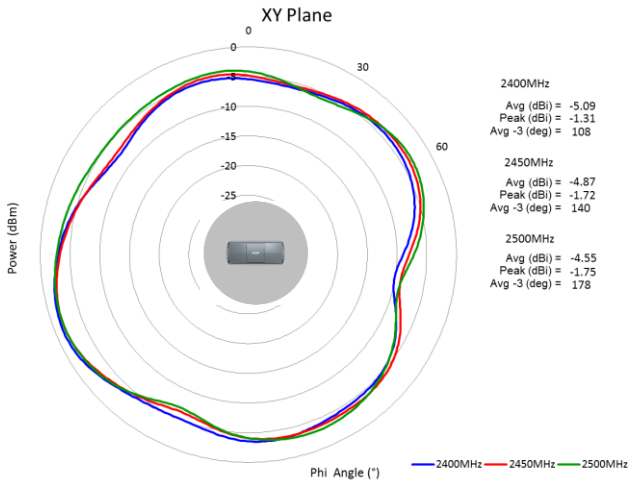
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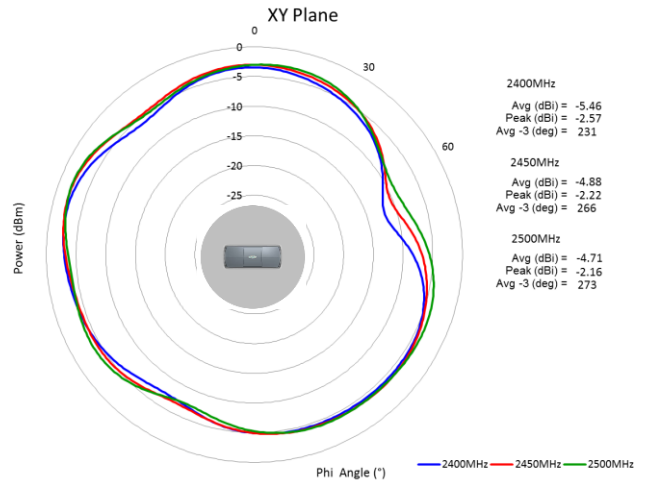
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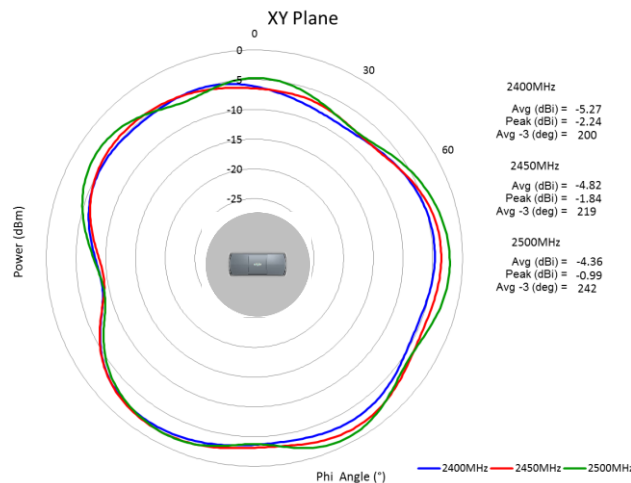
**CHARTS**



WiFi1 XY plane radiation pattern



WiFi2 XY plane radiation pattern



WiFi3 XY plane radiation pattern

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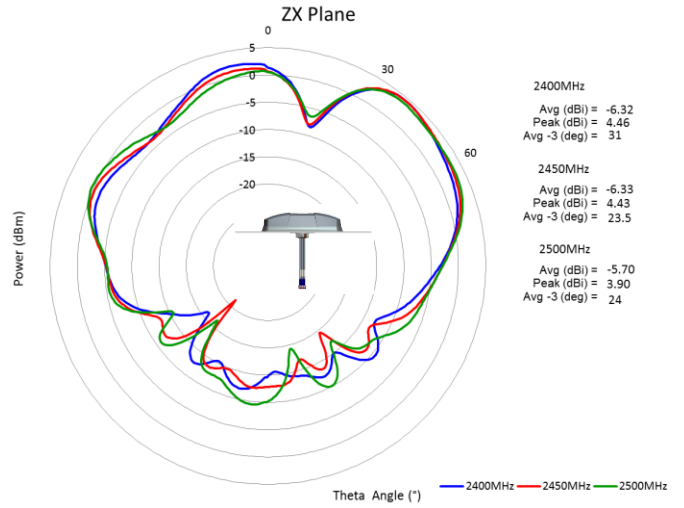
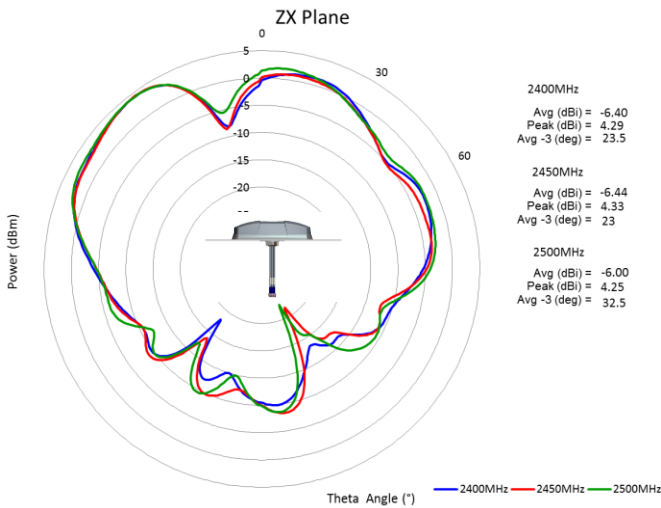
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**Description:** Vehicular Multiband Antenna with Direct Mount

**Series:** ARMADILLO

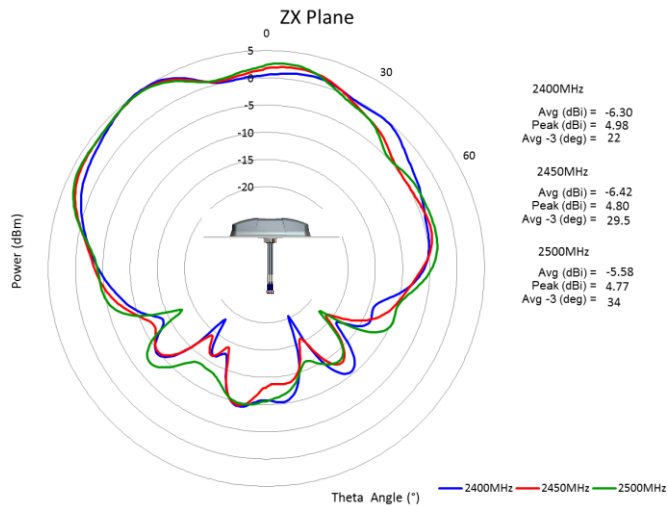
**PART NUMBER:** ARMXXXXDM

**CHARTS**



WiFi1 ZX plane radiation pattern

WiFi2 ZX plane radiation pattern



WiFi3 ZX plane radiation pattern

Issue: 2034

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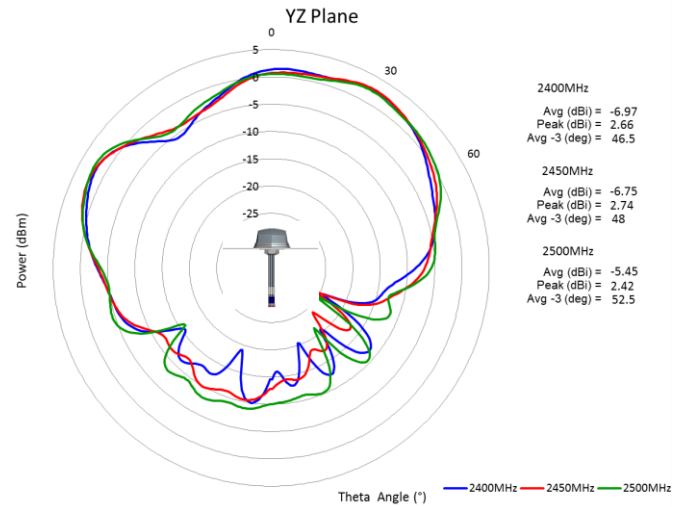
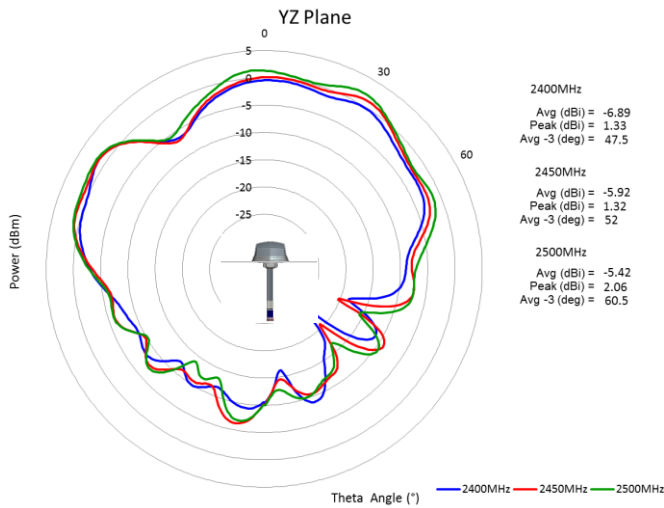
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**Series:** ARMADILLO

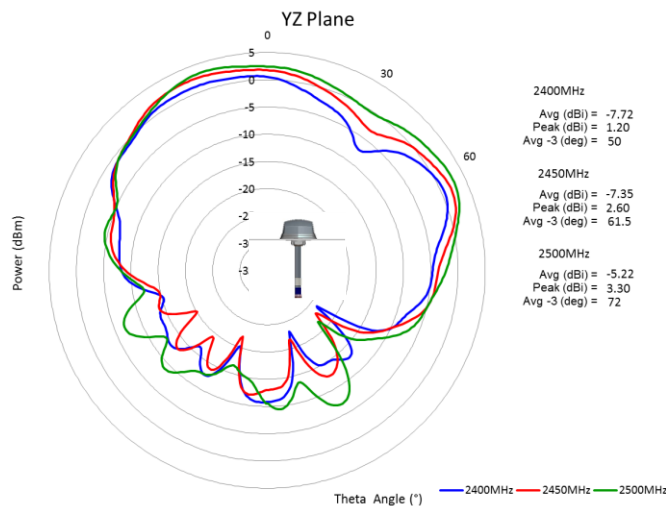
**PART NUMBER:** ARMXXXXDM

**CHARTS**



WiFi1 YZ plane radiation pattern

WiFi2 YZ plane radiation pattern



WiFi3 YZ plane radiation pattern

Issue: 2034

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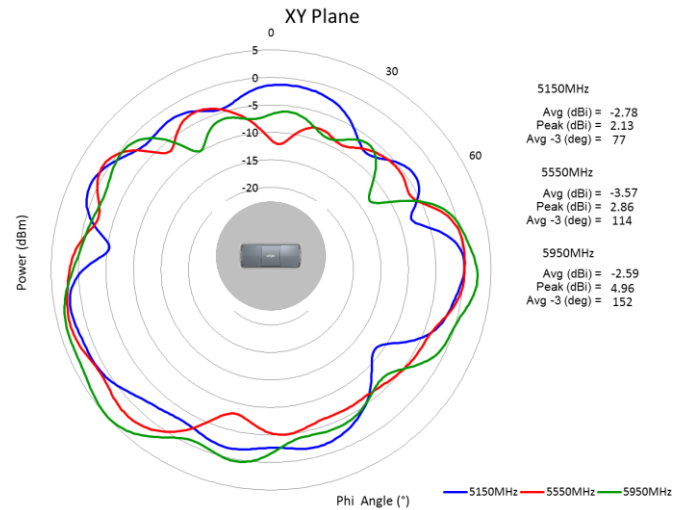
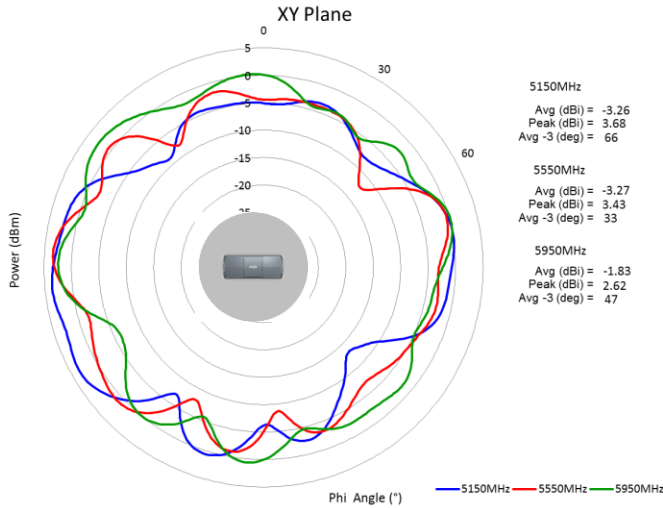
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**Series:** ARMADILLO

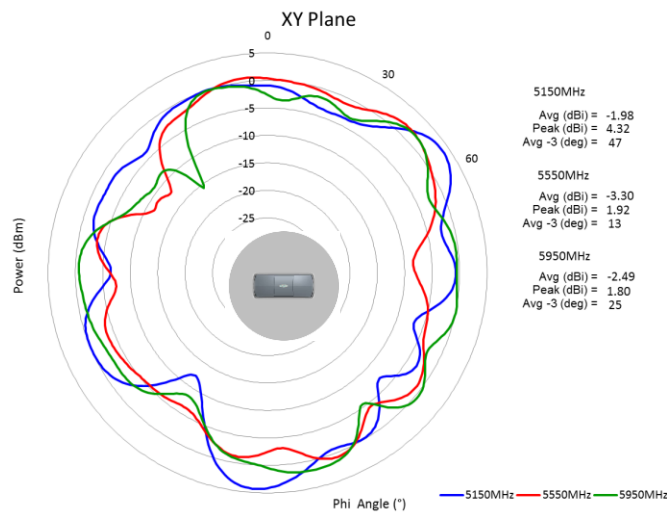
**PART NUMBER:** ARMXXXXDM

**CHARTS**



WiFi1 XY plane radiation pattern

WiFi2 XY plane radiation pattern



WiFi3 XY plane radiation pattern

Issue: 2034

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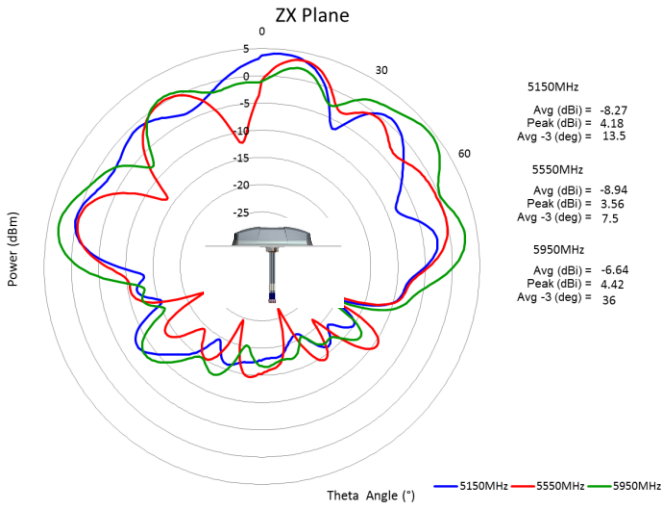
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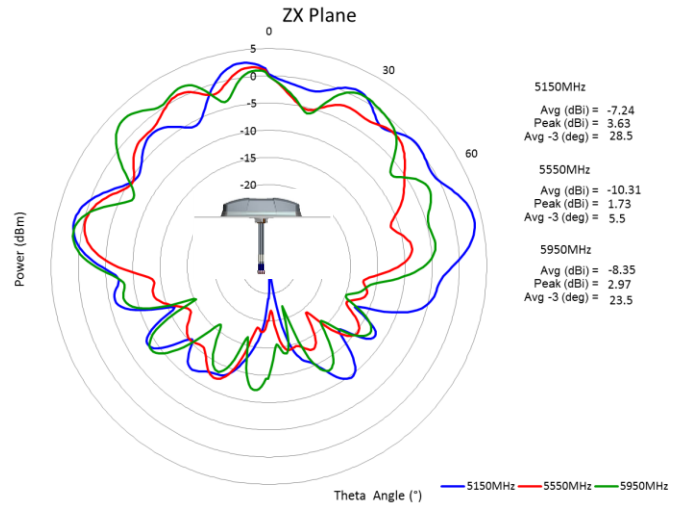
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**PART NUMBER:** ARMXXXXDM

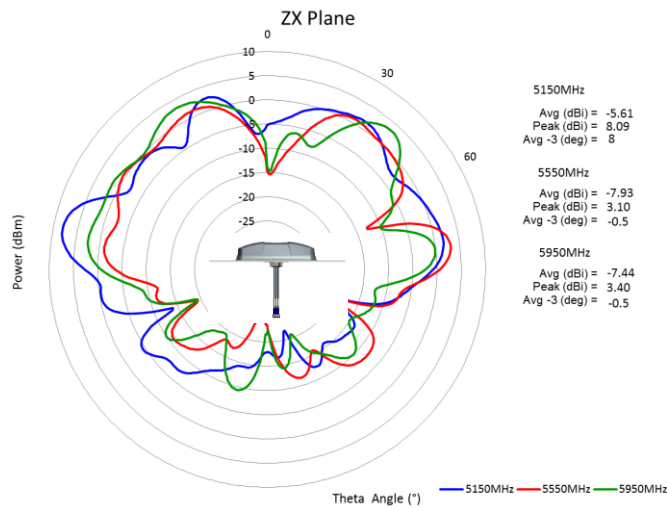
**CHARTS**



WiFi1 ZX plane radiation pattern



WiFi2 ZX plane radiation pattern



WiFi3 ZX plane radiation pattern

Issue: 2034

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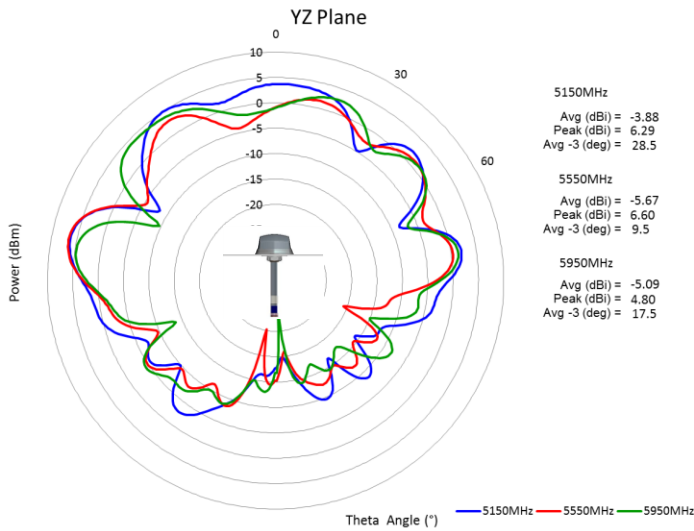


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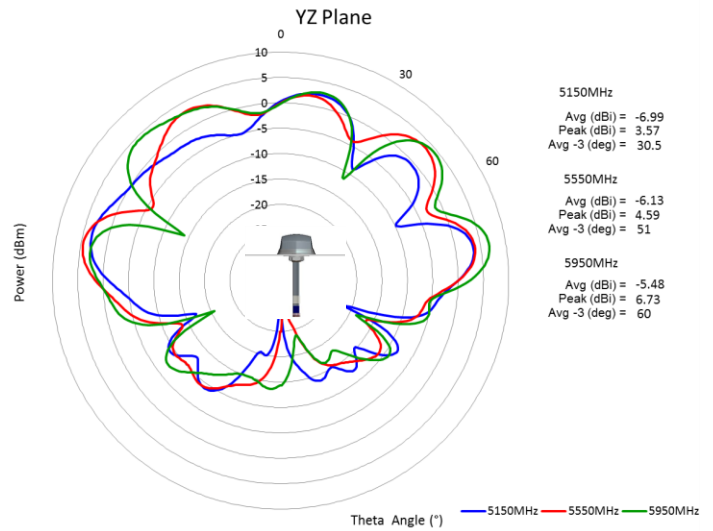
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**PART NUMBER:** ARMXXXXDM

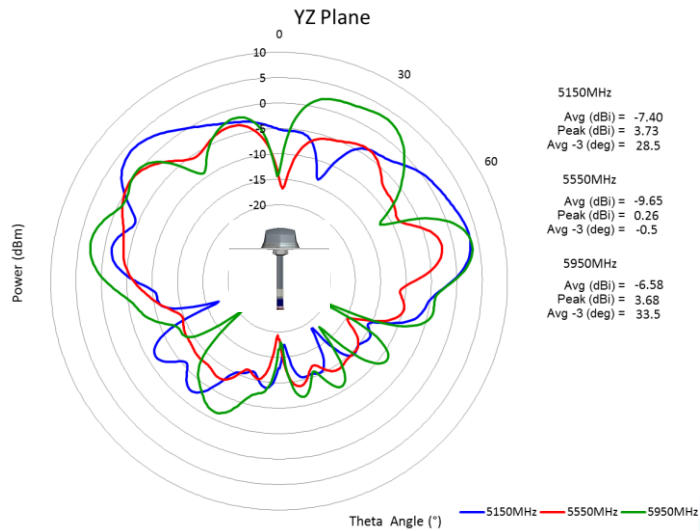
**CHARTS**



WiFi1 YZ plane radiation pattern



WiFi2 YZ plane radiation pattern



WiFi3 YZ plane radiation pattern

Issue: 2034

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