
Letter of Acknowledgment

SPECIFICATION FOR APPROVAL

project model:MP35AY3

Customer Name: Panjiarui Internet of Things Technology (Xiamen) Co., Ltd

Customer Part Number:

Product Name and Specifications: WiFi antenna FPC with adhesive on one side

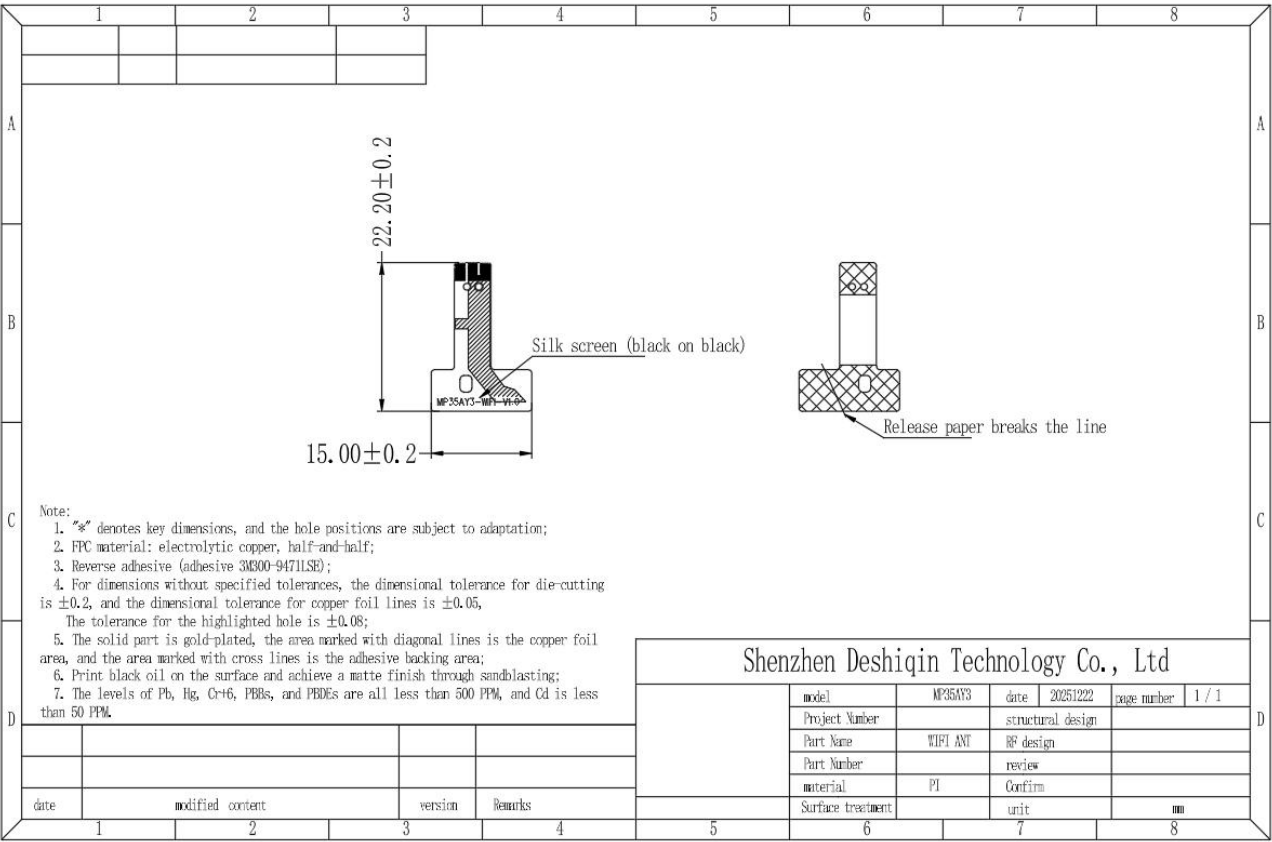
Original part number: CBL, ANTENNA, Deshiqin, MP35AY3-WIFI-V1.0

date of admission: 2026.04.07

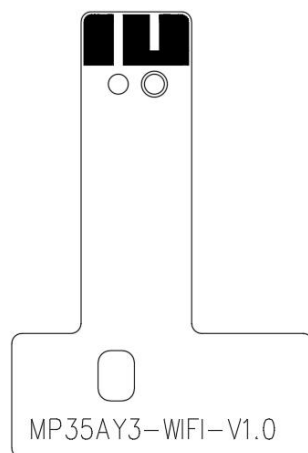
catalogue

- 1、 Product drawings
- 2、 Inspection standards (appearance, electrical performance)
- 3、 Sample size test report
- 4、 Reliability Test Report
- 5、 Shipping packaging method
- 6、 SGS & ROHS Report - (Electronic version available)
- 7、 Request to provide a PDF file

1.Product drawing



2.Inspection standards (appearance, electrical performance)

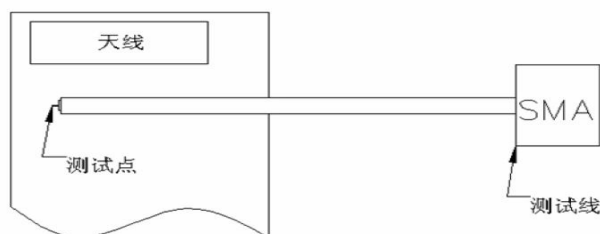


WIFI ant

2.1. source-free testing

Objective: To test the passive parameters of the antenna as accurately as possible.

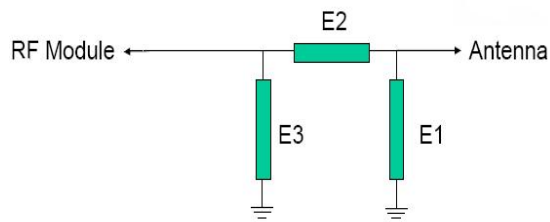
Method: This fixture utilizes a 50-ohm coaxial cable, with one end connected to the test point on the back end of the matching circuit (before the RF test hole) on the mobile phone motherboard, and the other end connected to an SMA connector. The specific details are illustrated in the figure below:



The table below presents the test metrics for the performance of the mass-produced MP35AY3 antenna:

MP35AY3				
	frequency (MHz)	VSWR	frequency (MHz)	VSWR
frequency band	transmitting end		receiving end	
2.4G-WIFI	2400-2500	≤ 2.0	2400-2500	≤ 1.8
5G-WIFI	5150-5850	≤ 3.0	5150-5850	≤ 2.0

2.2.matching circuit



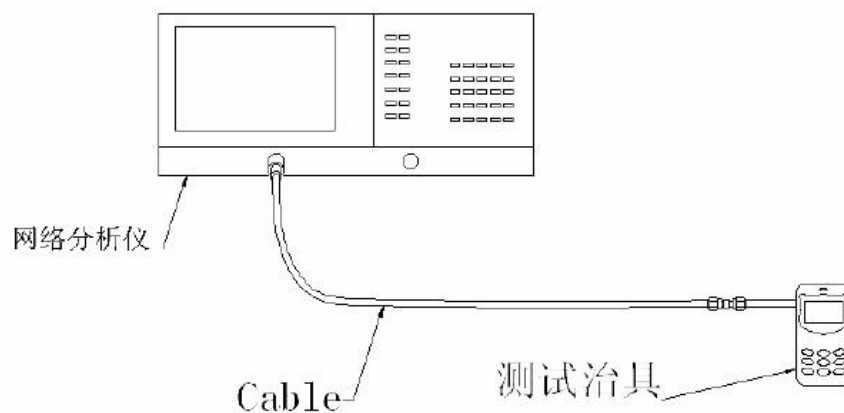
Element	matching value
E1	
E2	0 ohm
E3	

2.3. S11test

2.3.1 S11Test method specification and standard

VSWR The test device is connected in the following order: Agilent 5071B Network Analyzer → 50Ohm's coaxialCable → 120mmlong copper tube → test fixture.

Handling of test fixtures: From the 50 ohm test point of the antenna on the mobile phone PCB, a hard cable is used to lead out an SMA-J connector, which is connected to a copper tube equipped with a choke coil, and then sequentially connected to other devices.



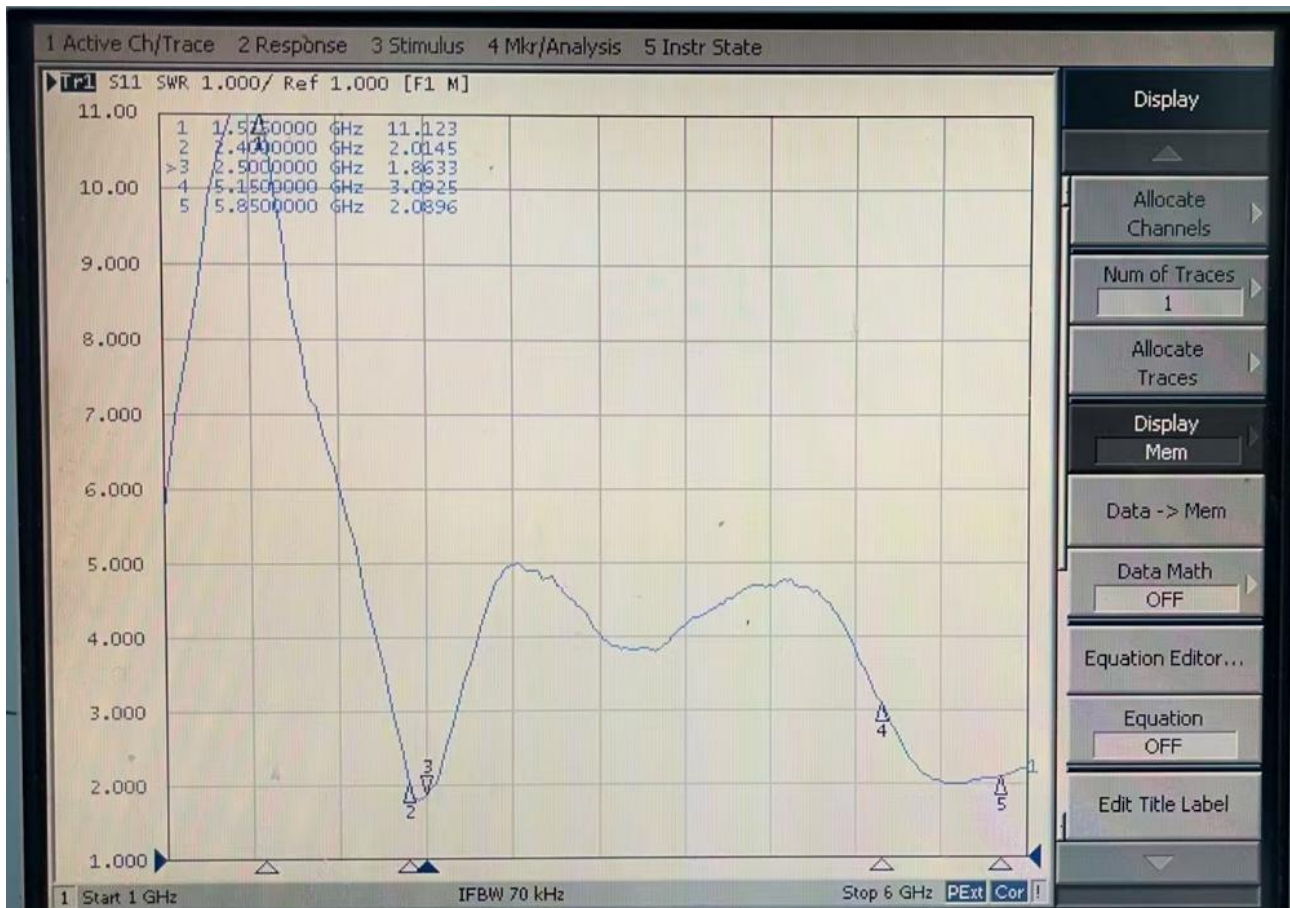
Test schematic diagram

2.3.2 S11parameter

The table below presents the standing wave ratio (SWR) values at the edge frequencies of the MP35AY3 antenna's operating band. The waveform diagrams of the measured Return Loss and VSWR are attached.

	MP35AY3 ant	
frequency(MHz)	2400-2500	5150-5850
free space	15	12

2.4 S11



Voltage Standing Wave Ratio (VSWR)

2.5. Power and sensitivity tests

2.5.1 WiFi active parameters:

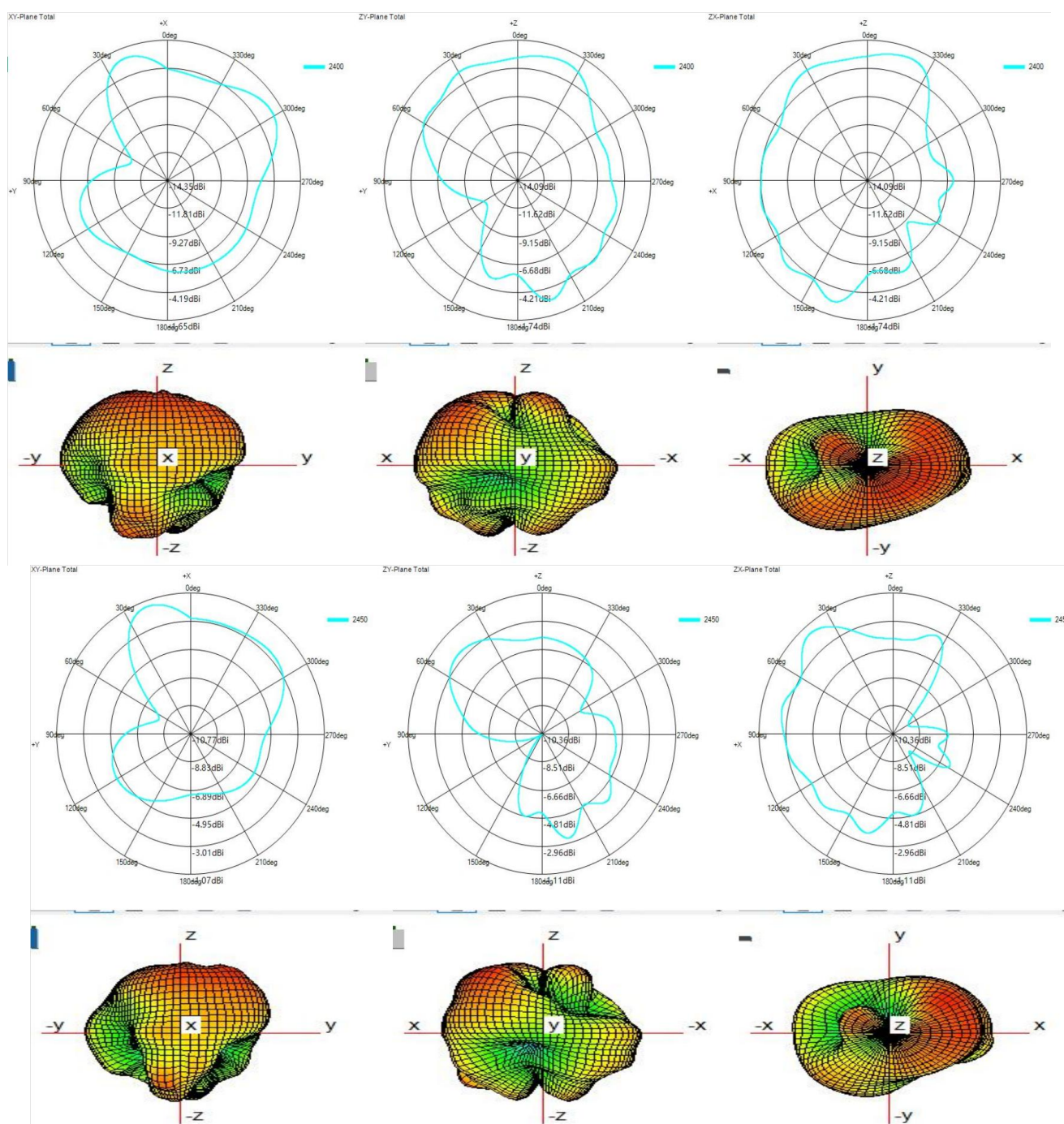
Channel	2.4G 11B			5G 11A		
	1	6	11	36	60	165
TRP	13.81	14.04	13.87	13.18	12.87	13.39
TIS	-83.19	-83.78	-83.06	-72.58	-72.26	-72.37
Gain	0.30dBi			1.50dBi		

2.5.2 WIFI Passive Efficiency Gain

Freq(MHz)	Gain(dBi)	Efficiency (%)
2400	0.19	33.56
2410	0.17	33.12
2420	0.24	34.69
2430	0.22	34.3
2440	0.23	34.48
2450	0.28	35.45
2460	0.29	35.97
2470	0.30	35.61
2480	0.22	34.27
2490	0.18	33.62
2500	0.29	33.91
5150	1.19	35.11
5200	1.22	33.71
5250	1.50	34.7
5300	0.75	31.37
5350	1.17	34.09
5400	1.46	35.71
5450	1.25	34.84
5500	0.52	32.28
5550	1.49	36.96
5600	1.48	41.67
5650	1.49	41.73
5700	1.47	42.89

5750	1.48	41.9
5800	1.50	43.99
5850	1.48	43.7

2.5.3 2D/3D Diagram

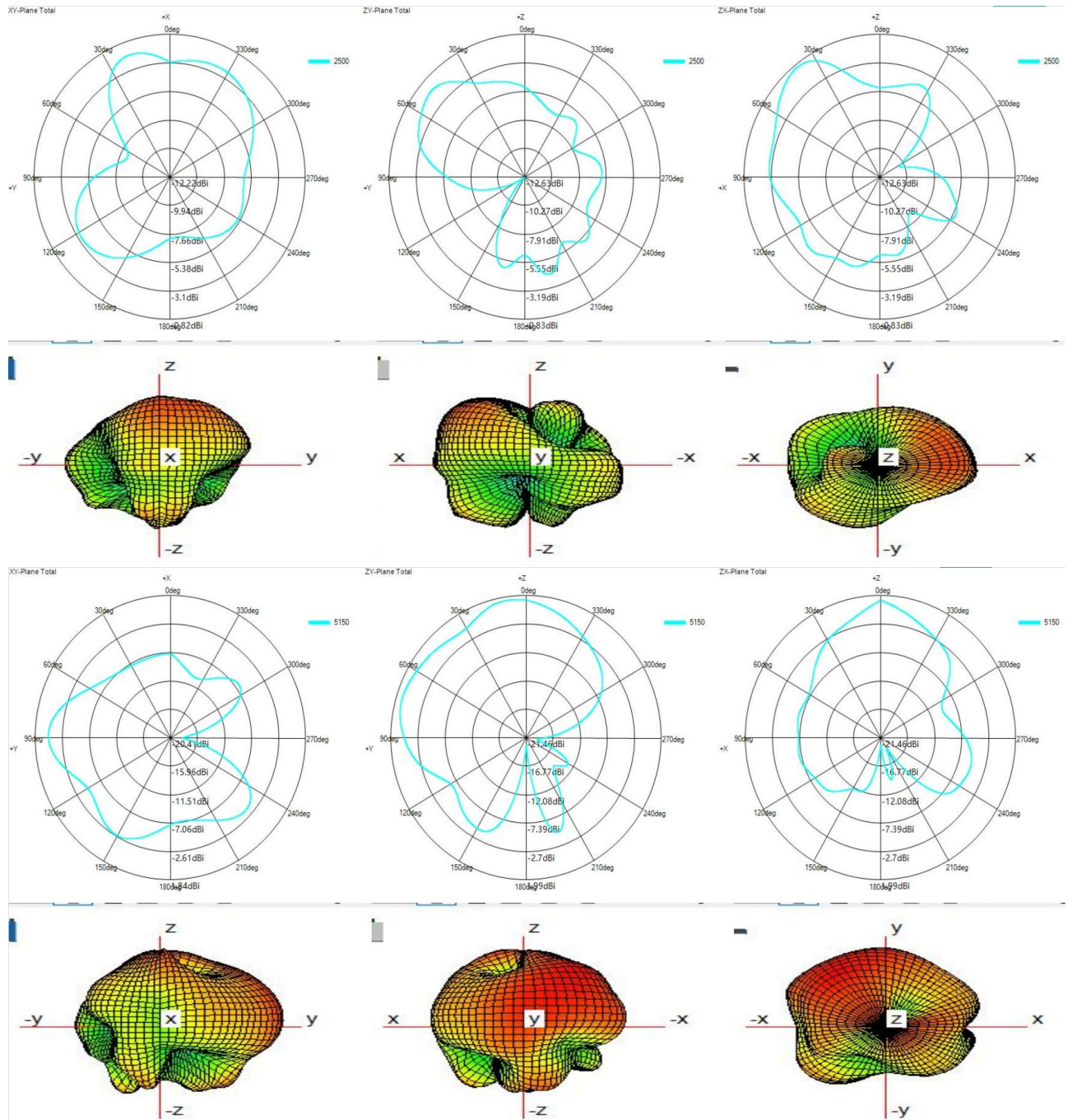


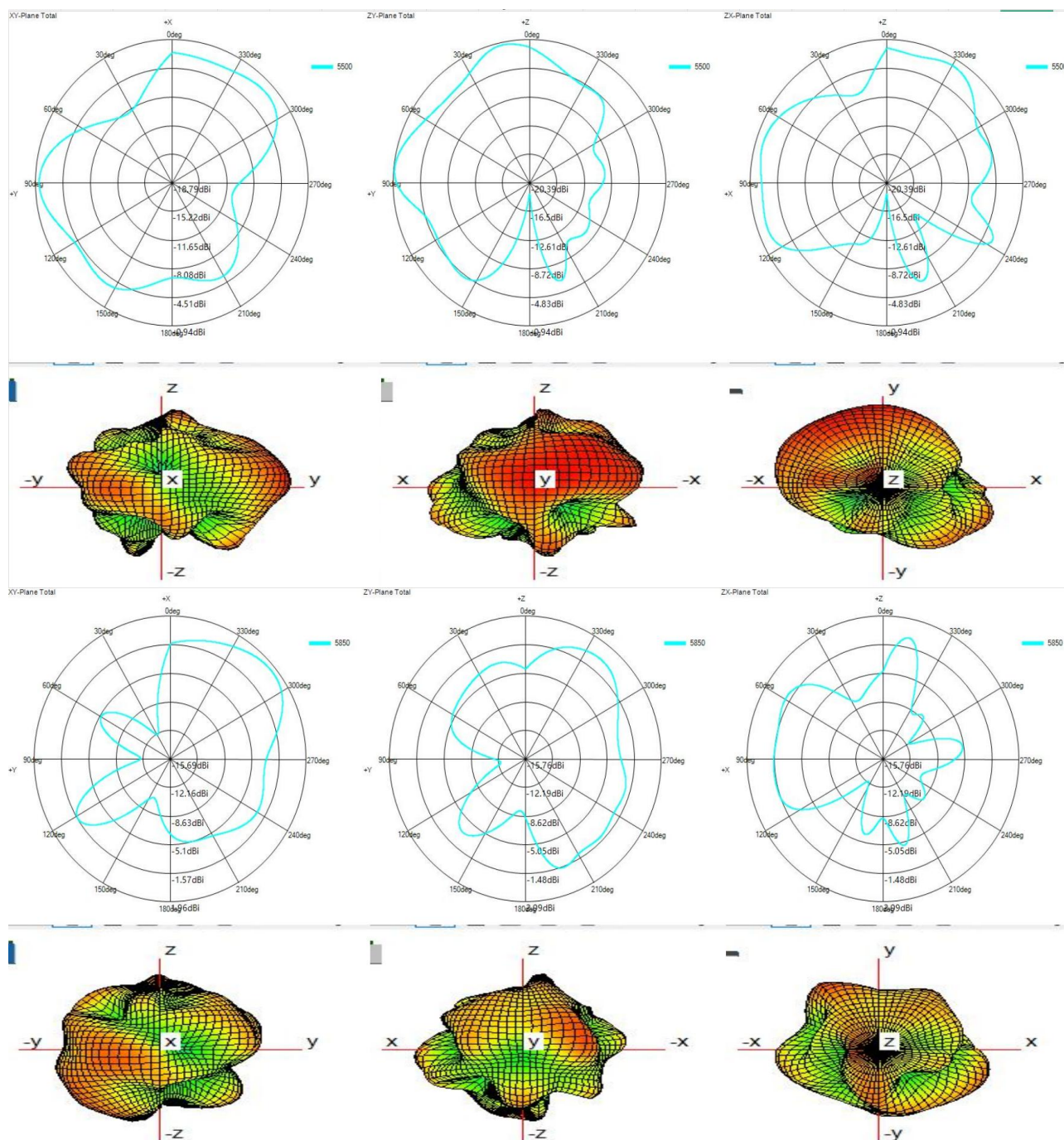
Dosking MicroElectronics Co.,Ltd

Address: Room 403, West Block, Building 2 (Ganghongji Building), Minqi Science and Technology Park, Xili University Town, Nanshan District, Shenzhen

TEL:0755-88602767

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3. Sample size test report

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Measuring instrument: anime tester						unit: mm		
Customer Model		MP35AY3	Deson model		MP35AY3	Measurement Date		2026. 04. 06
serial number	required dimensions	tolerance	Measured dimensions					
			1	2	3	4	5	judgment
1	22. 20mm	±0. 2mm	22. 20	22. 25	22. 30	22. 20	22. 18	OK
2	15. 00mm	±0. 2mm	15. 00	15. 10	15. 05	15. 08	15. 02	OK

4. Reliability test report

Reliability test report										
Customer Name	Panjiarui Internet of Things Technology (Xiamen) Co., Ltd			tester	Huang Guannin			Test Date	20260406	
Project Name	MP35AY3			review	Chen Jun			Review Date	20260406	
serial number	test project	test instrument	test conditions	judgment criteria	test sample					judgment
					1	2	3	4	5	
1	salt spray test	Salt spray test machine	Place the antenna in a salt spray test chamber maintained at 35℃±2℃, with humidity >85% and a PH value within the range of 6.5-7.2. Subject it to continuous salt spray using a 5%±1% NaCl solution for 48 hours. After the test is completed, remove the product, rinse it with clean water, and inspect its appearance.	The antenna surface should be free from defects such as rust, discoloration, and peeling of the plating.	OK	OK	OK	OK	OK	OK

2	High-temperature storage	Constant Temperature and Humidity Chamber	Place the antenna in a constant temperature and humidity chamber and let it stand at 70°C for 48 hours. After the test is completed, let it stand at room temperature for 2 hours before inspecting the product appearance.	The antenna surface is free of cracks, obvious deformations, and detachment, and the FPC is free of oxidation, warping, bubbles, wrinkles, and other defects; the electrical performance test is passed as qualified.	OK	OK	OK	OK	OK	OK	OK
3	Low-temperature storage	Constant Temperature and Humidity Chamber	Place the antenna in a constant temperature and humidity chamber and let it stand at -30°C for 48 hours. After the test, let it stand at room temperature for 2 hours before inspecting the product appearance.	The antenna surface should be free of cracks, obvious deformations, and detachment. The FPC should be free of oxidation, warping, bubbles, wrinkles, and other defects. The electrical performance test should be passed to be considered qualified.	OK	OK	OK	OK	OK	OK	OK
4	high humidity	Constant Temperature and Humidity Chamber	Place the antenna in a constant temperature and humidity chamber and expose it to an environment with a temperature of 60°C and a humidity of 95% for 48 hours. After the test is completed, place it in a normal temperature environment for 2 hours before inspecting the product appearance.	The antenna surface is free of cracks, obvious deformations, and detachment, and the FPC is free of oxidation, warping, bubbles, wrinkles, and other defects; the electrical performance test is passed as qualified.	OK	OK	OK	OK	OK	OK	OK
5	ROHS testing		Place the product into the ROHS machine model UX-210 and conduct testing according to the test machine's procedure	The test data is qualified if it complies with the ROHS standard	OK	OK	OK	OK	OK	OK	OK

5.packaging

General Requirements:			
1, Specify the customer name, project name, model, and material number;			
2, The picture illustrates the packaging methods for both the inner and outer boxes during shipment;			
3, Fill in the remarks column with the names of the materials used for packaging.			
1, Full-page packaging image;	2, Packing and packaging image;	Product Part Number:	
		Product Name:	MP35AY3 ant
		Product version:	V1.0
3, Sealed packaging image;	4, Label the entire box surface.	Packaging method: PE bag + outer box	
		inner box	Number of bags:

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		Outer box:	Inner box quantity	
Note: Inner packaging: The product is packaged in a PE bag; Outer packaging: Depending on the quantity of each shipment, select the appropriate specification of PE bags and cardboard boxes for packaging, and affix shipping labels on the outside. Storage conditions: Temperature 25-5° C, humidity: $\leq 70\%$.				