

Sunnyway Technology Co., Ltd

SAMPLE & SPECIFICATION FOR APPROVAL

Customer: Point Mobile Co., Ltd

Model NO: PM6

Customer P/N: PM6_BT_ANT_SW26095IB75 (E13-000343)

Version: V1.0

Specification Describe: PM6 BT Antenna (FPC)

Vendor P/N: SW26095IB75

Date: 2026-08-14

Sample and datasheet must be approved for 5 PCS .

Sunnyway Information		
Approved By	Check By	Issued By

No Customer appointed Material				Assign Part
	R&D		QE	Sales
Department	MD	HW	Quality and Eng.Dep.	Sale& Marketing
Checked By				
Approved By				
Final Judgment				
Remark				

Project Name:Pointmobile PM6_BT antenna		Document: Pointmobile_PM6_BT antenna Approval Sheet_A
Date :2020-08-14	Version: A	

Sunnyway Technology Co., Ltd

Sunnyway Communication Technology Co.,Ltd

Antenna Approval Sheet

Customer	Point Mobile Co., Ltd		
Customer P/N	PM6_BT_ANT_SW26095IB75 (E13-000343)		
Model	PM6		
P/N	SW26095IB75		
Description	PM6 BT Antenna (FPC)		
Frequency	2400~2500MHz		
Initial Date	2026-08-14		
Revision	A		
Author	RF Engineer	ME	
Tel.			
Approval	R&D	PM	QE

Customer Signature

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Catalog

目录

1. Summary	4
2. Antenna Structure.....	4
3. Device Conditions	4
4. Test Environment	5
5. Antenna Test Results	5
5.1 Antenna Photos.....	5
5.2 Matching Network.....	6
5.3 S11(VSWR and Return Loss)	6
5.4 Efficiency and Gain.....	7
5.2 Radiation Pattern	7
6. Mechanical Drawings.....	8
7. Reliability Test Report.....	9

Project Name:Pointmobile PM6_BT antenna		Document: Pointmobile_PM6_BT antenna Approval Sheet_A
Date :2020-08-14	Version: A	

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1. Summary

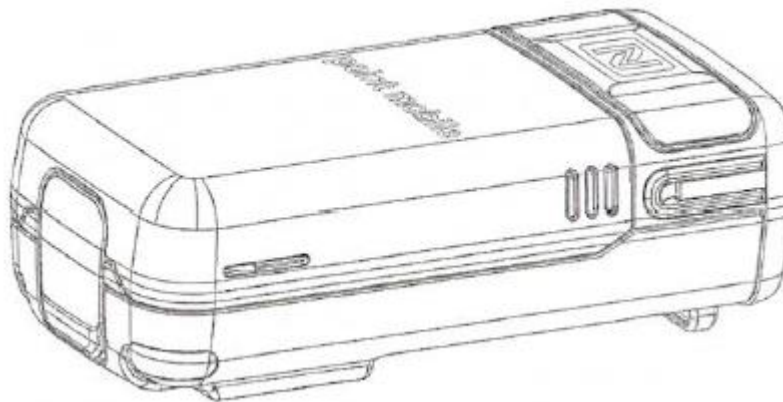
This is the BT antenna approval sheet

Working band is 2400~2500MHz.

2. Antenna Structure

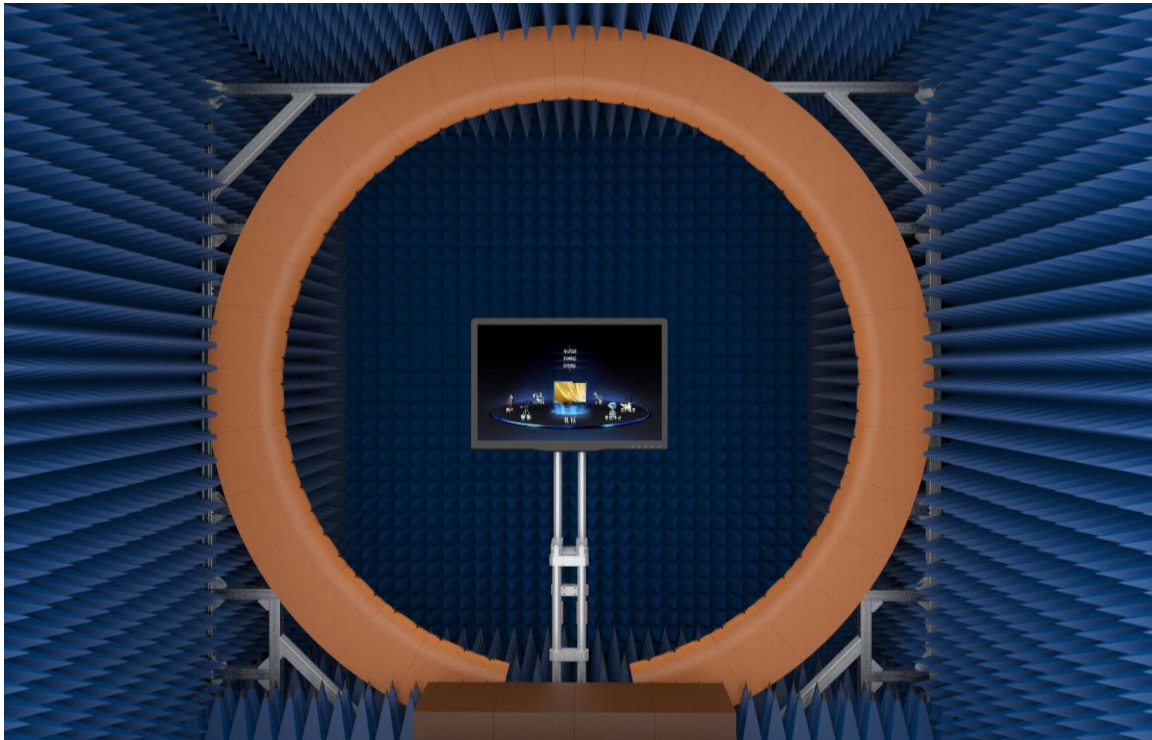
FPC

3. Device Conditions



Project Name:Pointmobile PM6_BT antenna		Document: Pointmobile_PM6_BT antenna Approval Sheet_A
Date :2020-08-14	Version: A	

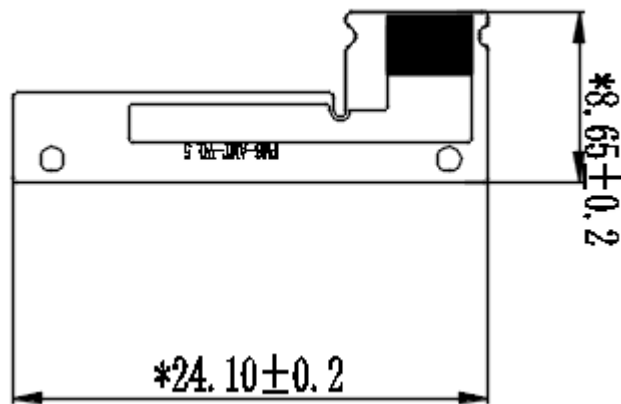
4. Test Environment



Picture 2 Test Environment photo

5. Antenna Test Results

5.1 Antenna Photos



Picture 3 BT antenna photograph

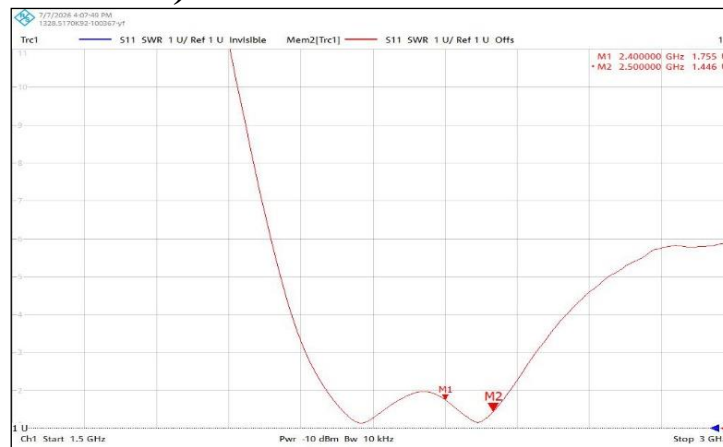
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5.2 Matching Network

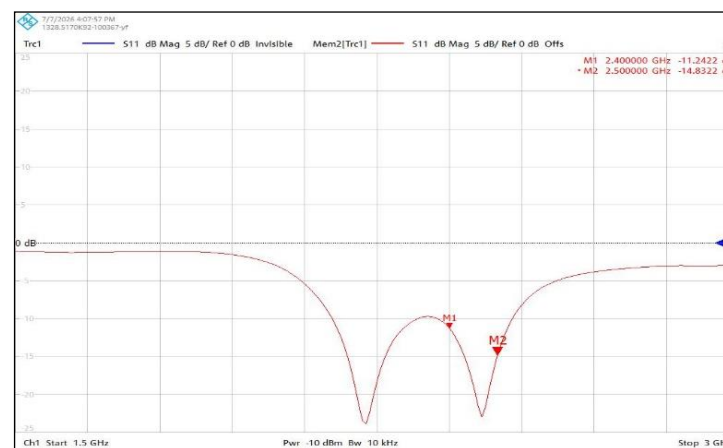
BT antenna	
Element	Value
R98	0.5pF
C68	0Ω
C69	NC

Picture 4 Matching network of BT antenna

5.3 S11(VSWR and Return Loss)



Picture 5 BT antenna reflection coefficients (VSWR)

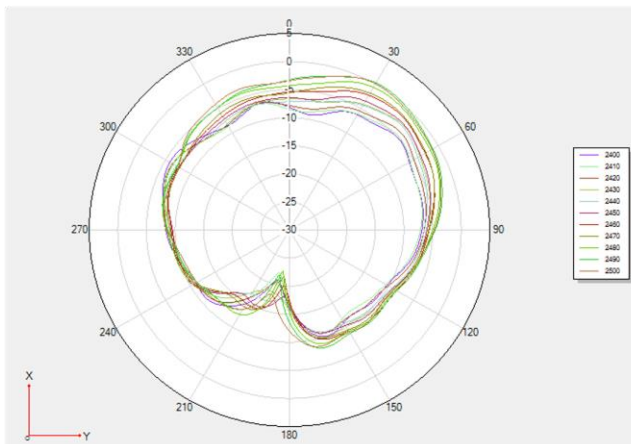
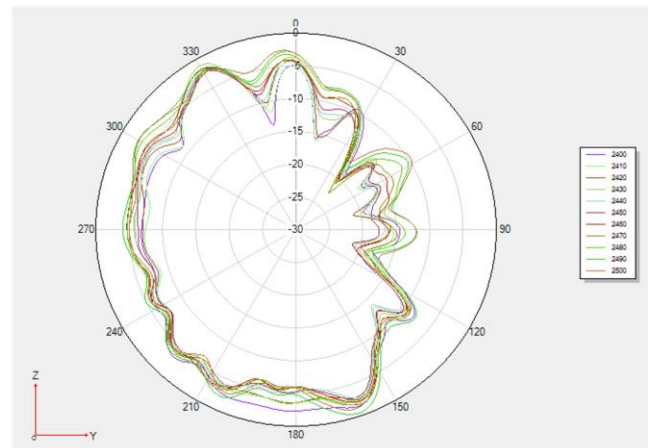
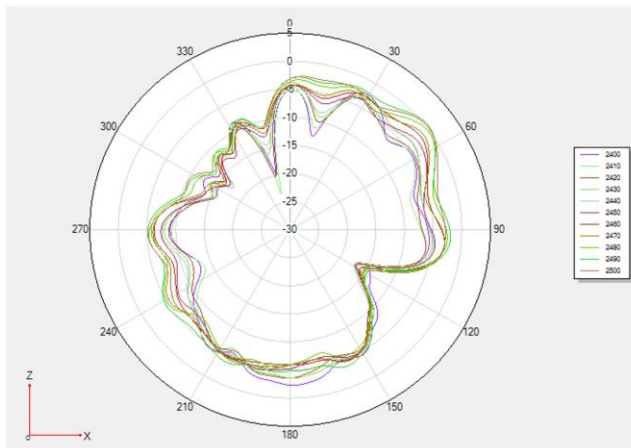


Picture 6 BT antenna reflection coefficients (Return Loss)

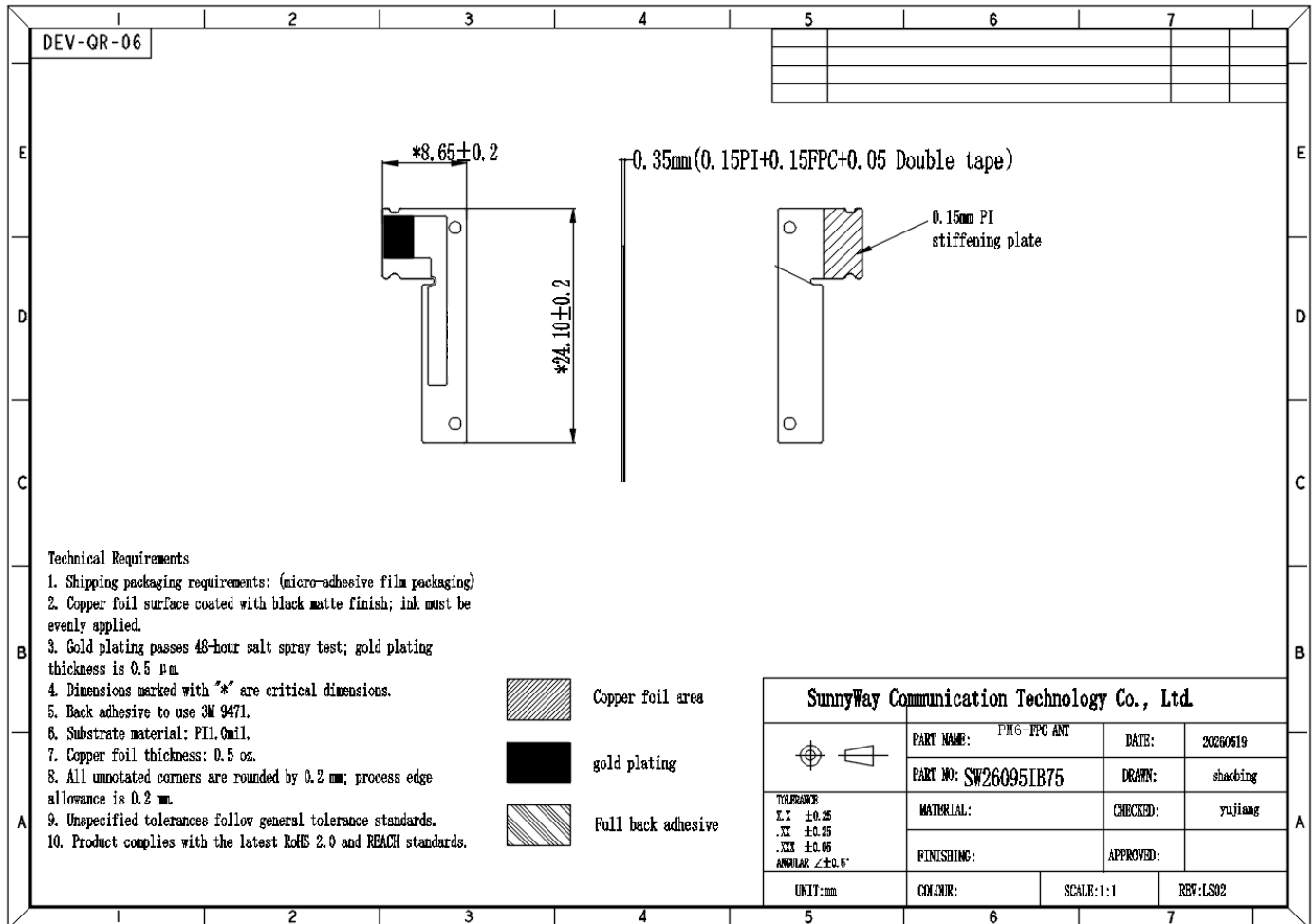
5.4 Efficiency and Gain

Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	23.66	-0.47
2410	25.06	-0.56
2420	26.06	-0.52
2430	28.38	0
2440	27.99	-1.44
2450	29.38	-0.87
2460	29.11	-0.21
2470	29.44	-0.06
2480	28.58	0.61
2490	28.31	0.53
2500	28.12	0.06

5.2 Radiation Pattern



6. Mechanical Drawings



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7. Reliability Test Report

Sunnyway Technology (China) Co., Ltd.									
Antenna Environmental Test Report									
Sample quantity: 5 pieces per item Test date: August 13, 2026									
Test time	Test item	Test conditions and requirements	test equipme	test result					
2026.8.13- 2026.8.14	low temperatu re test	1. Before the test, inspect the appearance and functions of the prototype. 2. Place the test sample in a temperature chamber. Start from a constant temperature of $20 \pm 5^{\circ}\text{C}$ and gradually reduce it at a rate of $2^{\circ}\text{C}/\text{min}$ to $-30^{\circ}\text{C} \pm 2^{\circ}\text{C}$, maintaining this temperature for 24 hours. 3. After 24 hours, gradually increase the temperature at a rate of $2^{\circ}\text{C}/\text{min}$ to $20 \pm 5^{\circ}\text{C}$. Remove the sample from the temperature chamber, store it at room temperature for 2 hours, and then inspect it.	Standard temperatu re and humidity chamber		1	2	3	4	5
					-30°C	-30°C	-30°C	-30°C	-30°C
				RF	OK	OK	OK	OK	OK
				Appe aran ce	OK	OK	OK	OK	OK
2026.6.22- 2026.6.23	high temperatu re test	Temperature: $+85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ Storage: 24 hours	Standard temperatu re and humidity chamber		1	2	3	4	5
					+85°C	+85°C	+85°C	+85°C	+85°C
				RF	OK	OK	OK	OK	OK
				Appe	OK	OK	OK	OK	OK
2026.6.22- 2026.6.25	steady- state damp heat test	Set the constant temperature and humidity box to a temperature of $55^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and a humidity of $93\% \pm 3\%$. Place the product in the constant temperature and humidity box and leave it there for 48 hours. Then remove the product and inspect its appearance.	Standard temperatu re and humidity chamber		1	2	3	4	5
					55°C/93%	55°C/93%	55°C/93%	55°C/93%	55°C/93%
				RF	OK	OK	OK	OK	OK
				Appe	OK	OK	OK	OK	OK
2026.6.22- 2026.6.23	High and low temperatu re impact test	Place the sample in the temperature shock test box: first, keep it in a low-temperature environment of $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 30 minutes, then switch the temperature to $+70^{\circ}\text{C} \pm 2^{\circ}\text{C}$ within 3 minutes and maintain it for 30 minutes. This process is repeated 48 times. After the cycle is completed, let it return to room temperature for 2 hours. After the test is finished, inspect the appearance of the product.	Standard temperatu re and humidity chamber		1	2	3	4	5
					-40°C~70°C	-40°C~70°C	-40°C~70°C	-40°C~70°C	-40°C~70°C
				RF	OK	OK	OK	OK	OK
				Appe aran ce	OK	OK	OK	OK	OK
2026.6.22- 2026.6.23	salt spray test	The pH value is measured during the neutral salt spray test of plastic electroplated parts. In a sealed environment at $35^{\circ}\text{C} \pm 2^{\circ}\text{C}$ with a humidity of over 85%, after continuous salt spray with a $5\% \pm 1\%$ NaCl solution for 48 hours, the test is completed. Then, it needs to be left at room temperature for 24 hours.	Salt spraying tester		1	2	3	4	5
					35°C/5%	35°C/5%	35°C/5%	35°C/5%	35°C/5%
				RF	OK	OK	OK	OK	OK
				Appe aran ce	OK	OK	OK	OK	OK

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