SPECIFICATION FOR APPROVAL

CUSTOMER：

CUSTOMER PARTNO：

SUPPLIER：Shenzhen Feasycom Co.,LTD

PRODUCT MODEL： FYT-01（M01-0600460R0A）

PRODUCT NAME：FYT-01 WIFI2.4G Antenna

PRODUCT CODE：F12E00008A0

CUSTOMER SIGNATURE：	CUSTOMER SEAL：

SUPPLIER SIGNATURE：	SUPPLIER SEAL：

NOTE：PLEASE RETURN THIS COPY AS A CERTIFICATION OF YOUR APPROVAL

Prepared by： 董春玲	Date： 2023.08.19	Add：	Room 405，Building R3-A，South District，Nanshan Science and Technology Park，Shenzhen
		Tel：	0755-27924639

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VERSION INFORMATION

Version	DATE	REVISION DESCRIPTION	PREPARED	CHECKED	APPROVED
V1.0	2022.04.21	First edition released	董春玲	杨永成	陈建尤
V1.1	2022.06.17	Added 2D and 3D tests	董春玲	杨永成	陈建尤
V.12	2023.08.18	Added gain data for the irectional diagram	董春玲	黄文华	陈建尤

PERFORMANCE PARAMETER

1.Electrical Characteristics		
1	Frequency Range	2400-2500MHz
2	V.S.W.R	≤3
3	Gain	3.43dBi
4	Efficiency	61.29%
5	Impendence	50Ω
6	Polarization	Linear polarization
7	Interface type	First generation terminal
2.Mechanical parameters		
1	Measure	FPC:50.85*8.5mm/ Cable:200.0mm*Φ1.13mm
2	Colour	Black

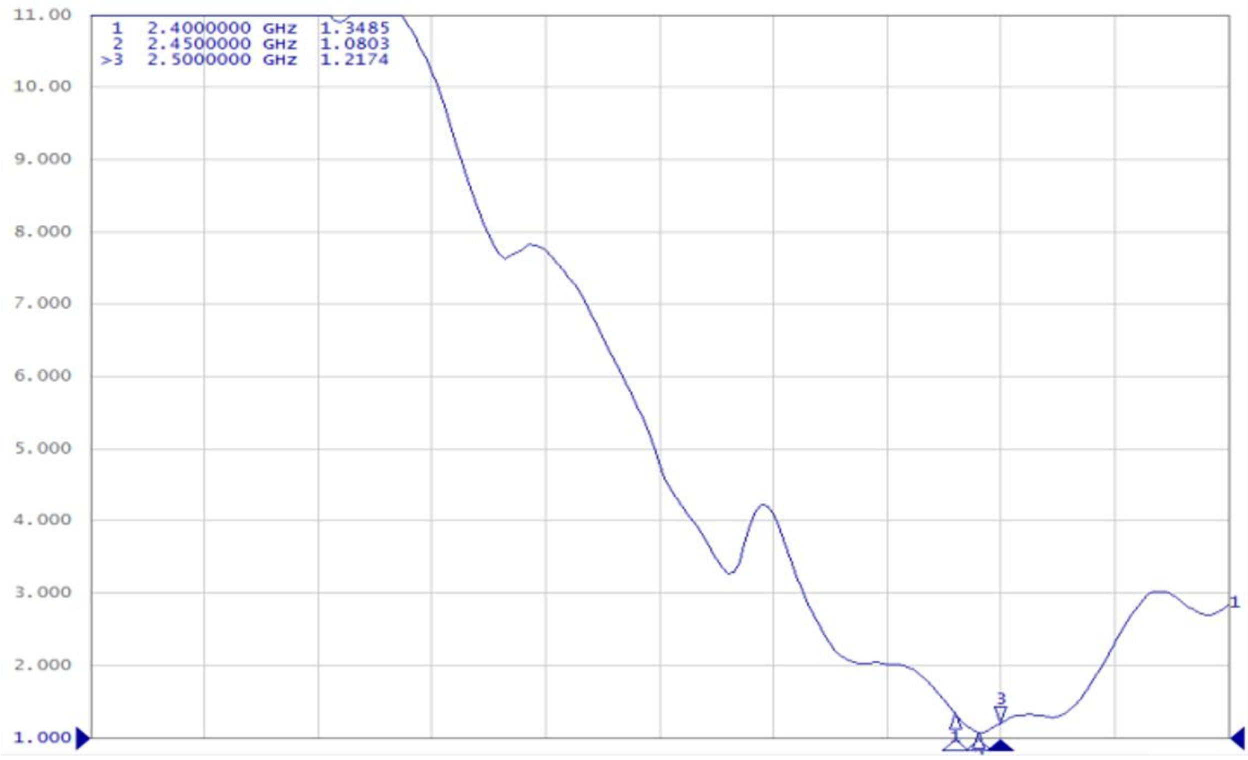
3.Environment Condition

1	Working Temp	-30℃~80℃

TESTING CURVE

1.erformance test

1.1 V.S.W.R



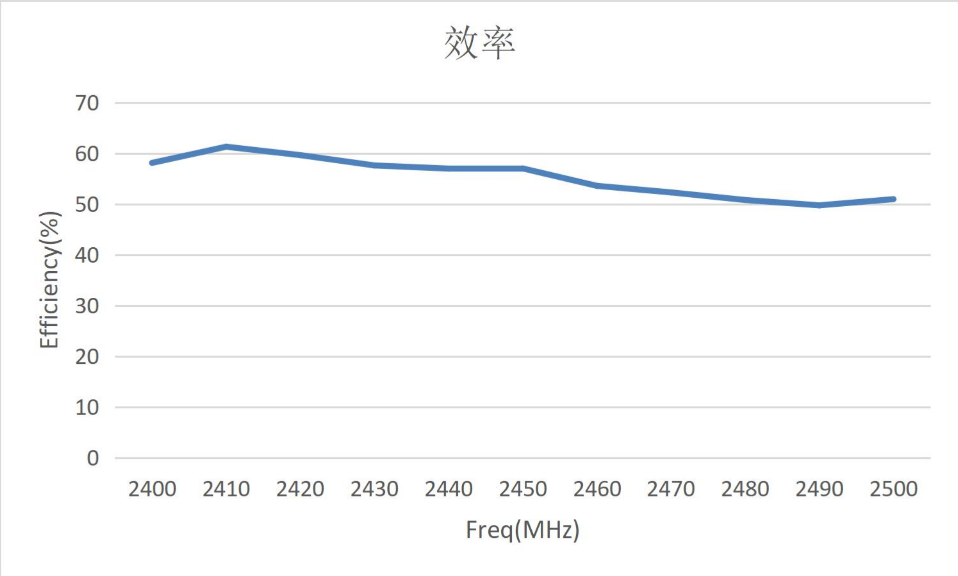
Data list

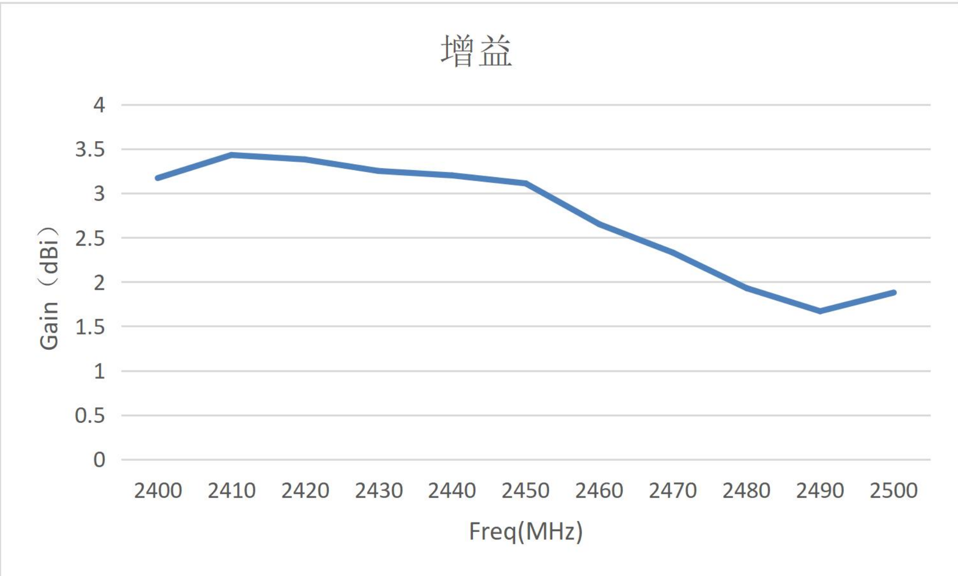
Freq	2.4	2.45	2.5
VSWR	1.35	1.08	1.22

TESTING CURVE

2. Passive testing

2.1 Efficiency and Gain





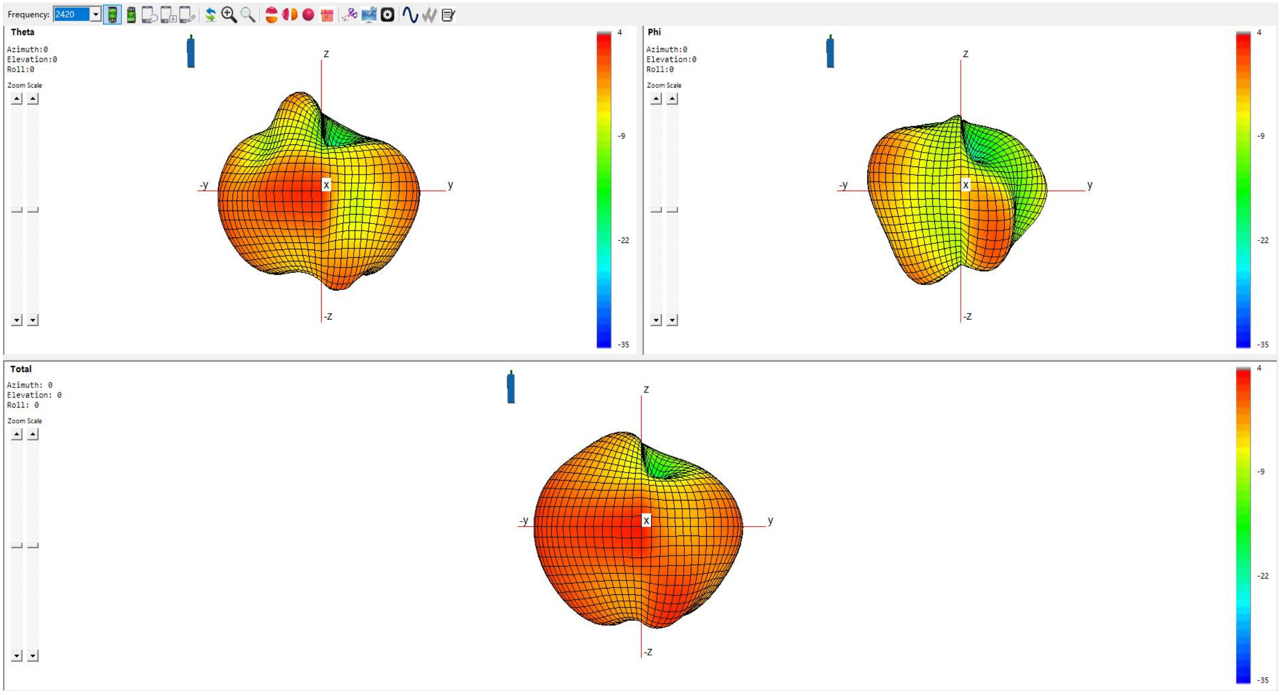
TESTING CURVE

Efficiency and Gain Data list

Freq(MHz)	Efficiency(%)	Gain（dBi）
2400	58.1	3.17
2410	61.29	3.43
2420	59.63	3.38
2430	57.6	3.25
2440	56.98	3.2
2450	57.01	3.11
2460	53.58	2.65
2470	52.29	2.33
2480	50.79	1.93
2490	49.74	1.67
2500	50.96	1.88

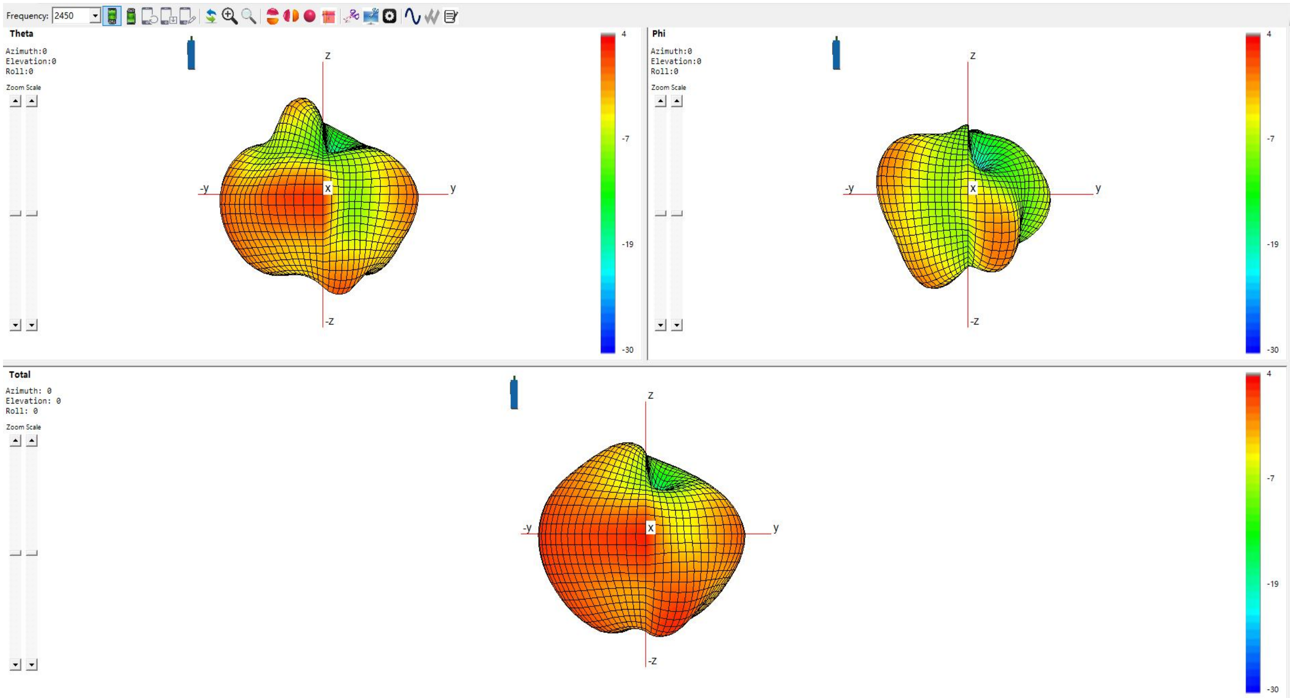
TESTING CURVE

2.2 3D Map



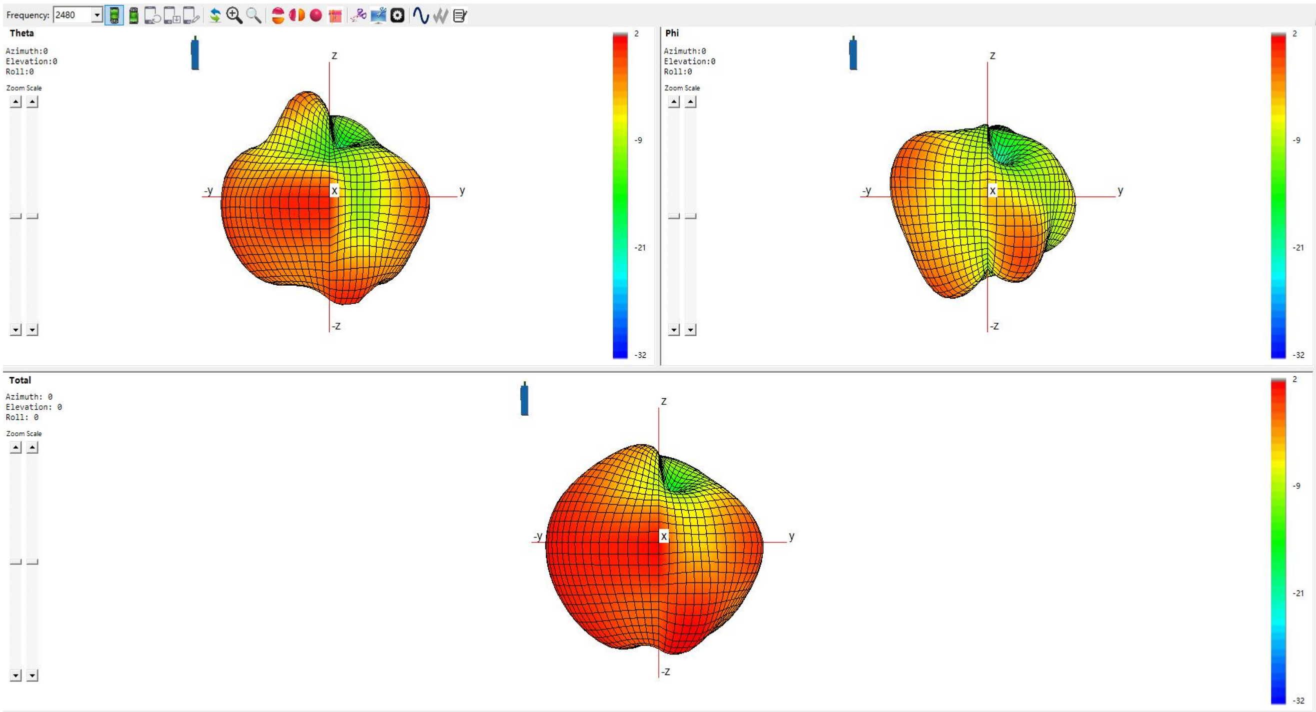
2420MHz

Gain=3.38dBi



2450MHz

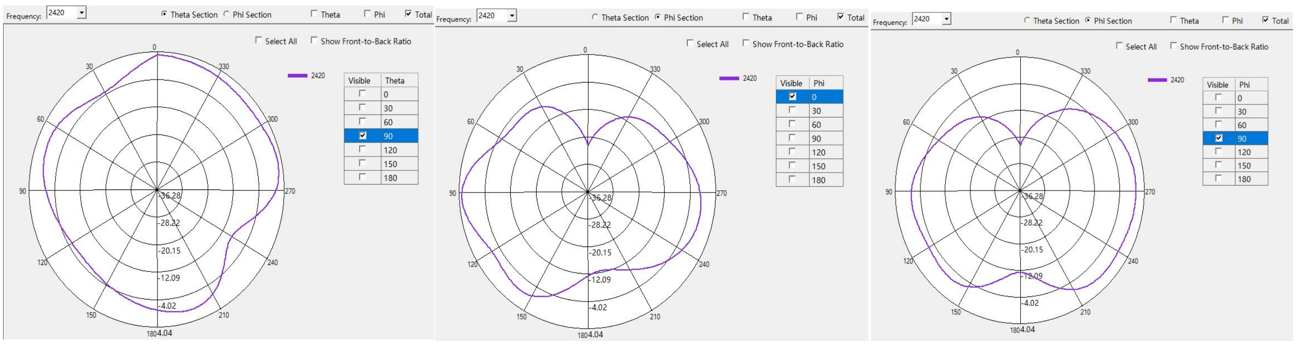
Gain=3.11dBi



2480MHz

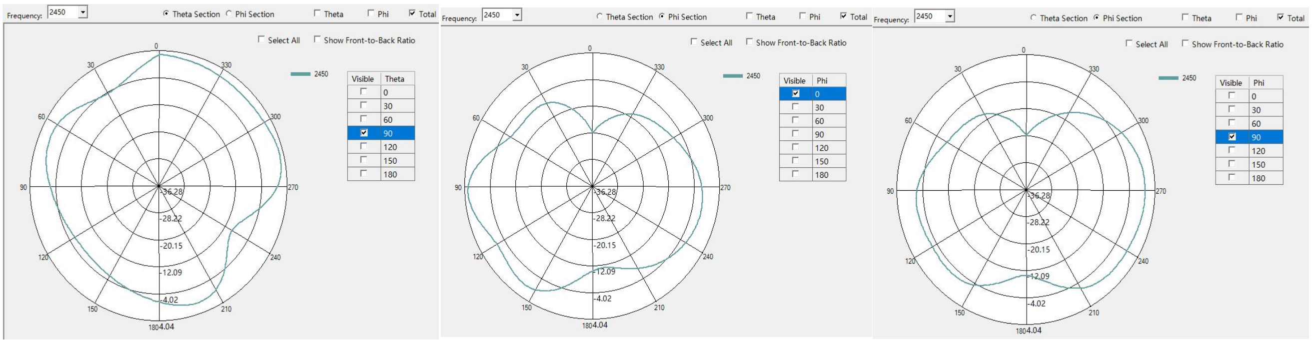
Gain=1.93dBi

2.3 2D Figure



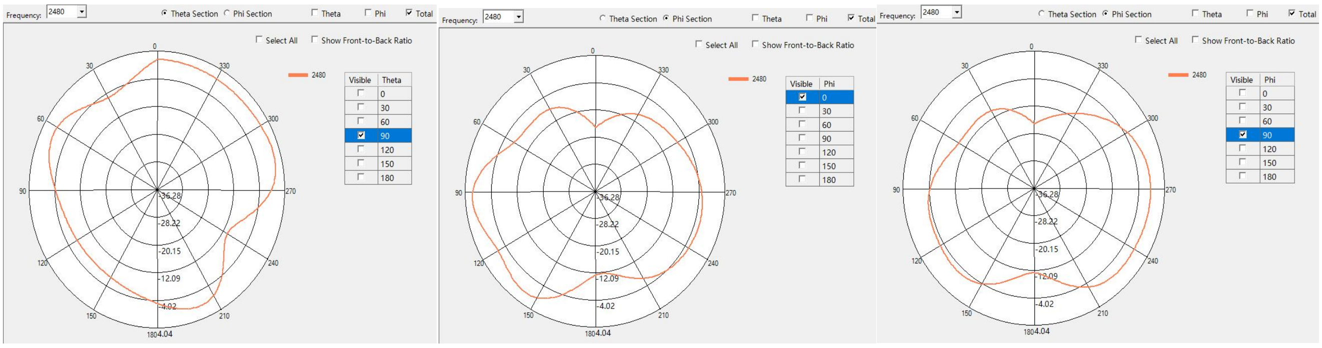
2420MHz

Gain=3.38dBi



2450MHz

Gain=3.11dBi



2480MHz

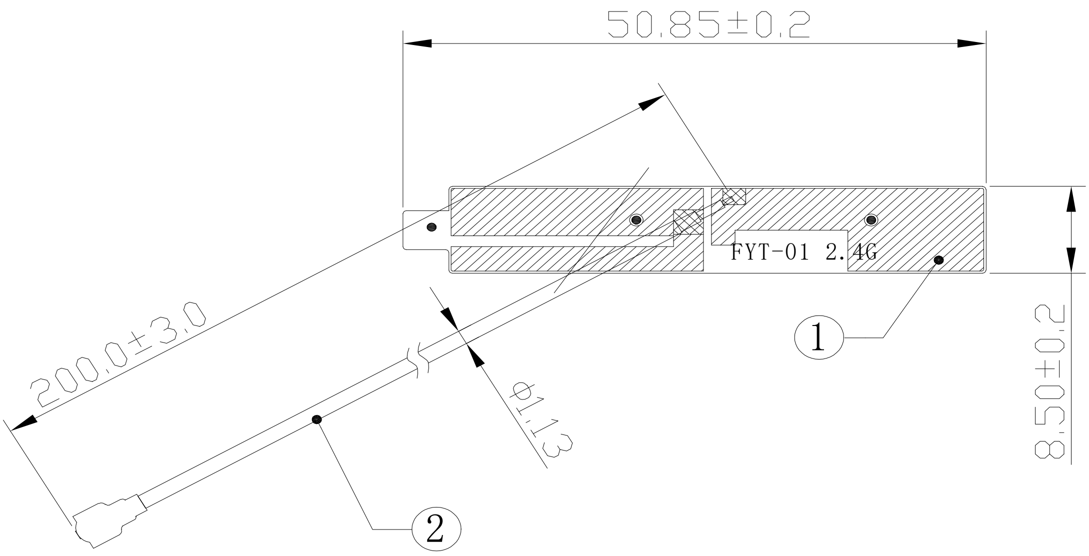
Gain=1.93dBi

3. Active testing（None）

SCHEDULE DRAWING

RoHS
Compliant
G P

No.	Name	Material	Color	Treatment	Amount	Remark
1	FPC		黑色		1	
2	同轴线		黑色		1	



First generation terminal
Ports facing down

Remark:

1. The dimensions marked with “ ” are key dimensions.
2. The contents of Pb, Hg, Cr+6, PBBs, and PBDEs in each part are less than 500PPM, and Cd is less than 50PPM.

A0	New drawing	20220421	
Rev	Description	Date	Remark

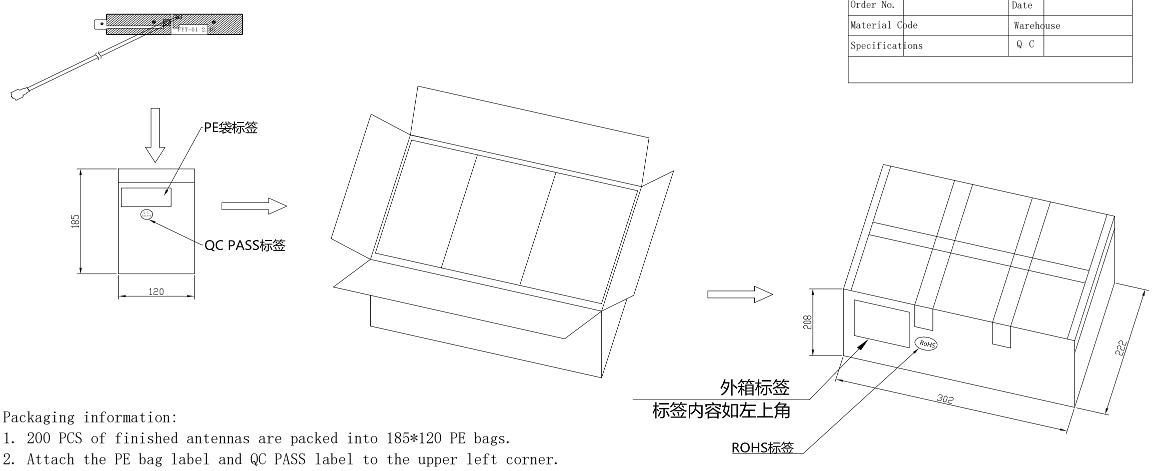
Third Angle		
0～10	±0.10	○
10～18	±0.15	◎
18～30	±0.20	⊥
30～40	±0.25	▱
40～	±0.30	Angle
Location		

Project	FYT-01	Designed by			
Part Name	2.4GAntenna	Date			
Part No.	M01-0600460R0A	Checked by	RF		
Material		Date			
DWG No.		Approved by			
		Unit	mm	Scale	1:1

PACKING DIAGRAM

外箱标签

Shipping label			
Project Name		quantity	
Order No.		Date	
Material Code		Warehouse	
Specifications		Q C	

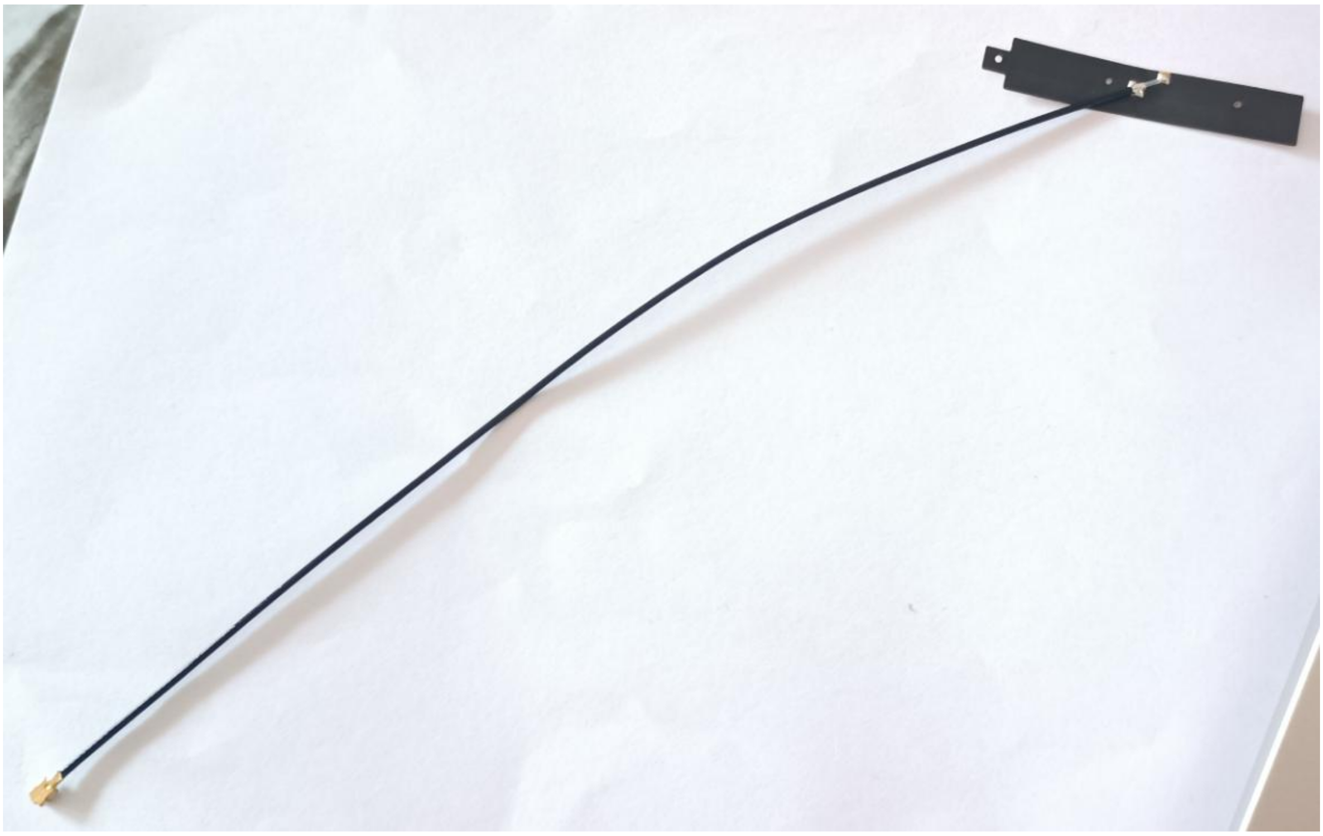


Packaging information:

1. 200 PCS of finished antennas are packed into 185*120 PE bags.
2. Attach the PE bag label and QC PASS label to the upper left corner.
2. Each box contains 50 PE bags with finished antennas, and each box contains 10,000 pcs of antennas.
The box size and quantity can be adjusted according to actual production conditions.
3. Then attach the outer box label and ROHS label to the upper left corner of the long side of the carton.
4. Finally, use two strips of packaging tape horizontally and vertically to seal the box in a "well" shape.

Third Angle				Project	FYT-1	Designed by			
0～10	±0.05	○	0.02	Part Name	Packaging Instructions	Date			
10～18	±0.10	◎	0.03	Part No.	M01-0600460R0A	Checked by	RF		
18～30	±0.12	⊥	0.02	Material		Date			
30～40	±0.15	▱	0.04	Treatment		Approved by			
40～	±0.20	Angle	±0.5°						
				Color		Unit	mm	Scale	1:1

ANTENNA PHYSICAL DIAGRAM



Certificate of Acceptance Sample Size Inspection Report

Project Name	FYT-01	Antenna Type	FPC Antenna	Inspection Date	2023-08-19

Check List

	Test Item	Test criteria	Result					Remark
			1	2	3	4	5	
Module	Wire	No scratches, cracks, connector terminals should be free of rust, looseness, deformation, port direction, etc. The connector terminals should be free of rust, looseness, deformation, port direction, etc.						
	FPC Color	The color is consistent with the specification, no color difference, wrong color, etc.						
Performance Testing	VSWR	≤3						
Dimensions		50.85±0.2						
		200.0±3						
		8.5±0.2						

Remark		
Approval: 杨永成	Audit:陈建尤	Inspector: 董春玲

QC ENGINEERING DRAWING	Document number	MA-QCW-2308-32	File Name	FYT-01 Antenna			Prepared by	李玲
	Version	A					Reviewer	徐茂元
	Release Date	2023.08.19	Effective Date	2023.08.19	Page	1/1	Approver	徐茂元

Code	Process	Process Name	Process parameters/ quality characteristics	Use equipment fixture	Testing equipment	Inspection method	Check frequency	Usage Record	Responsible	Related Documents
1		Incoming material inspection	Inspection standards/drawings	Caliper	/	Visual	AQL Sample	IQC Inspection Report	IQC	
2		Production picking	Production order	/	/	/	/	Pick List	Warehouse keeper	
3		Unpack (open the bag) to confirm the quantity	Delivery Note	/	/	/	/	Delivery Note	Operator	
4		Welding coaxial line	Technical Documents/ Drawings/BOM	/	manual	Visual	Full inspection	Production daily report	Operator	
5		First piece appearance confirmation	Sealed sample	/	Visual	Visual	/	IPQC first piece inspection record	IPQC	
6		First article performance test	The product meets the requirements of the design specification	/	Network Analyzer	Visual Test	/	IPQC first piece inspection record	IPQC	
7		Inspection	IPQC Process Inspection Regulations	/	Visual	Visual	2H	IPQC process inspection records	IPQC	

8		Appearance inspection	Technical documents/ drawings/appearance judgment criteria	/	Visual	Visual	Full inspection	Production daily report	inspector	
9		Testing	Technical documents/drawings	/	Network Analyzer	Visual Testing	Full inspection	Production daily report	Operator	
10		Packaging (bagging) quantity confirmation	Drawings/BOM	/	/	Visual	Full inspection	Production daily report	Operator	
11		Test	IPQC Process Inspection Regulations	/	Visual	Visual	2H	IPQC process inspection records	IPQC	
12		Storage	Production order	/	/	/	/	Product Inventory Order	Warehouse keeper	
13		Pre-shipment inspection	Shipping Notice	Network Analyzer		Measurement	AQL Sample	/	OQC	

Instruction: □ operation and processing; ◇ confirmation, inspection, judgment, approval ▽ operation and processing; ↓ Transportation

Mark	Modifications	Version	Date	Modified by	Approver
		A	2023.08.19	李玲	徐茂元

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ROHS TEST REPORT

Project material name	Material Code	Report test sample name	Testing agency	Detection time	Test report number	Test Conclusion	Remark
FYT-01 天线	M01-0600460R0A	FPC（Base）	SGS	2023/2/15	SHAEC23001049106	OK	
		FPC（Ink）	SGS	2022/8/5	ETR22705905	OK	
		FPC（Adhesive）	SGS	2023/1/4	SHAEC2217569205	OK	
		Coaxial cable (tinned copper)	CTI	2023/4/13	A2230155596101005E	OK	
		Coaxial cable （FEP）	SGS	2022/12/04	CANEC2225444702	OK	

Fictitious person: 董春玲	Reviewer: 陈建尤	Date: 2023.08.19	Stamping place:

PRODUCT VERIFICATION

Test items	Test Descriptio /Test Standard	Target Requirements	Product Verification (PV)							Remark
			sample		Trial Location			test	Responsible Person	
			quantity	Type	client	Supplier	Third Party	Result		
Appearance inspection	The surface should not have defects such as dents, scratches, cracks, deformations, burrs, mildew spots, etc.; the surface coating should not bubble, crack, or fall off; metal parts should not have rust or other mechanical damage; the injection material should not overflow.	Normal appearance	Full inspection	Tooling parts		√		OK		
Dimension	According to drawing size	Within the size tolerance	3pcs	Tooling		√		OK		

				Tooling						
Performance Check	The product meets the requirements of the design specification	Short circuit and continuity test	Full inspection	Tooling parts		√		OK		
Salt spray resistant	48 hours salt spray test	The surface is not rusted after cycle verification	3pcs	/		√		OK		
Requirements for banned and restricted substances	Tested in accordance with RoHs requirements	Products should comply with RoHs standards	/	/		√		OK		
Packaging Specifications	Place according to drawing specifications	Visual inspection and placement as required	Full inspection	Tooling parts			√	OK		

BOM DETAILS

Code	Part Number	Product Name	Version	Specifications	Color	Unit	Dosage
1	F01-0101210R0A	FPC	V1.1	Black/FPC one-and-a-half material/back adhesive 3M300LSE/OSP/50.85*8.5mm/RoHs	Black	PCS	1
2	X01-0201370R0A	Coaxial Cable	V1.0	Black/Double tin coaxial line/One end stripped wire (2.0/2.5/1.0)/One end first generation Zepu terminal/1.13*200.0mm/RoHs	Black	PCS	1
3							
4							
5							
6							
7							