

2.4.5 Efficiency

Left Ear Antenna Efficiency and Gain

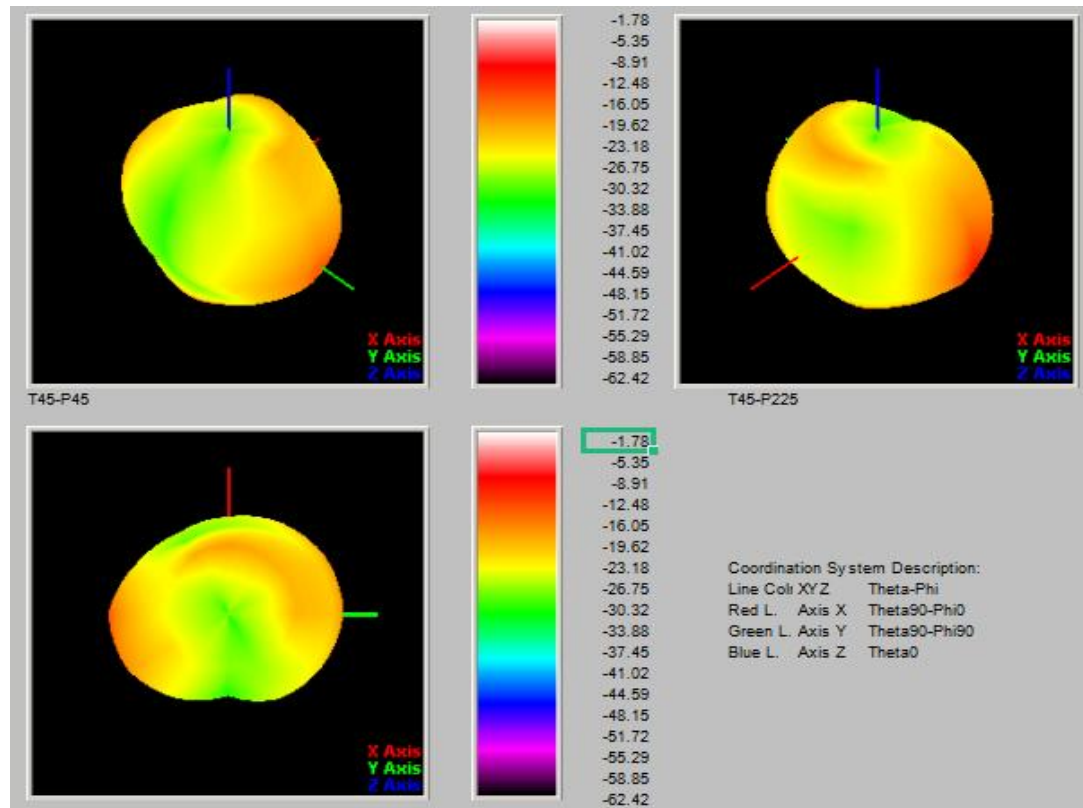
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	25%	-6.12	-2.01
2410	26%	-6.02	-1.85
2420	26%	-6.02	-1.75
2430	28%	-5.70	-1.62
2440	27%	-5.79	-1.42
2450	29%	-5.34	-1.38
2460	28%	-5.70	-1.58
2470	26%	-6.02	-1.75
2480	24%	-6.34	-1.80
2490	25%	-6.02	-1.92
2500	23%	-6.39	-2.15

Right Ear Antenna Efficiency and Gain

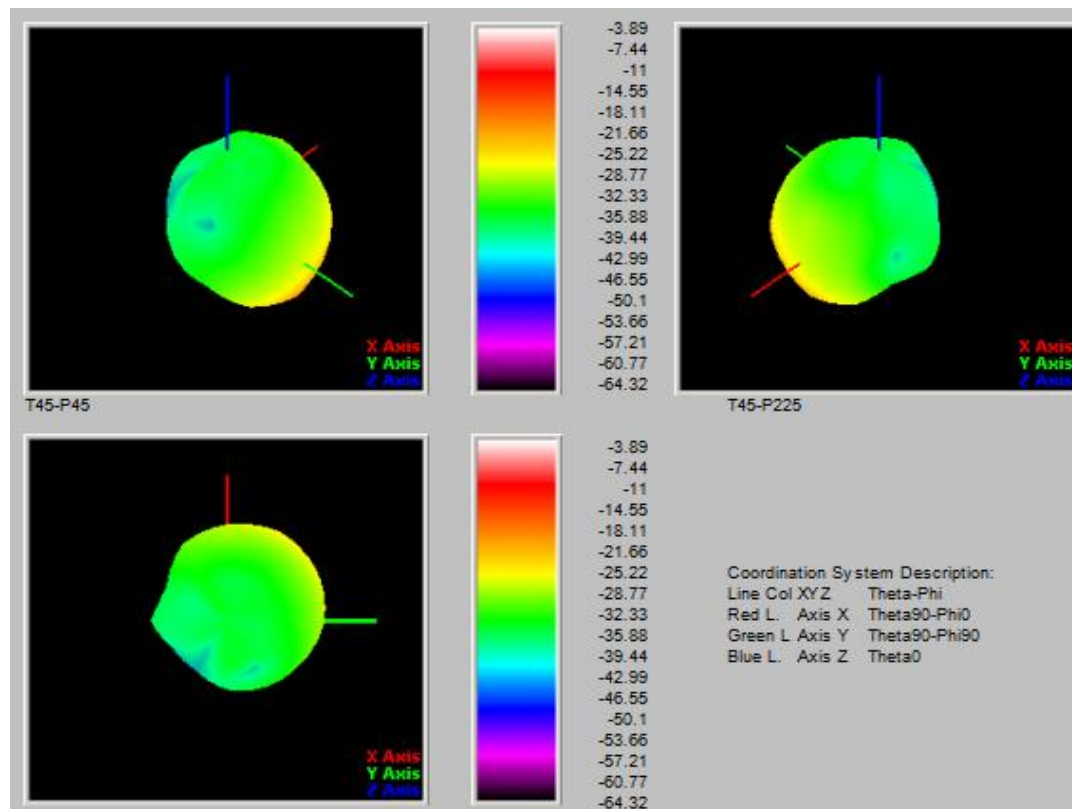
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	24%	-6.20	-2.10
2410	24%	-6.21	-2.02
2420	25%	-6.02	-1.78
2430	27%	-5.69	-1.65
2440	28%	-5.53	-1.50
2450	28%	-5.53	-1.38
2460	27%	-5.70	-1.60
2470	26%	-5.81	-1.74
2480	24%	-6.22	-1.60
2490	24%	-6.28	-1.91
2500	23%	-6.40	-2.11

2.5 Direction diagram-L

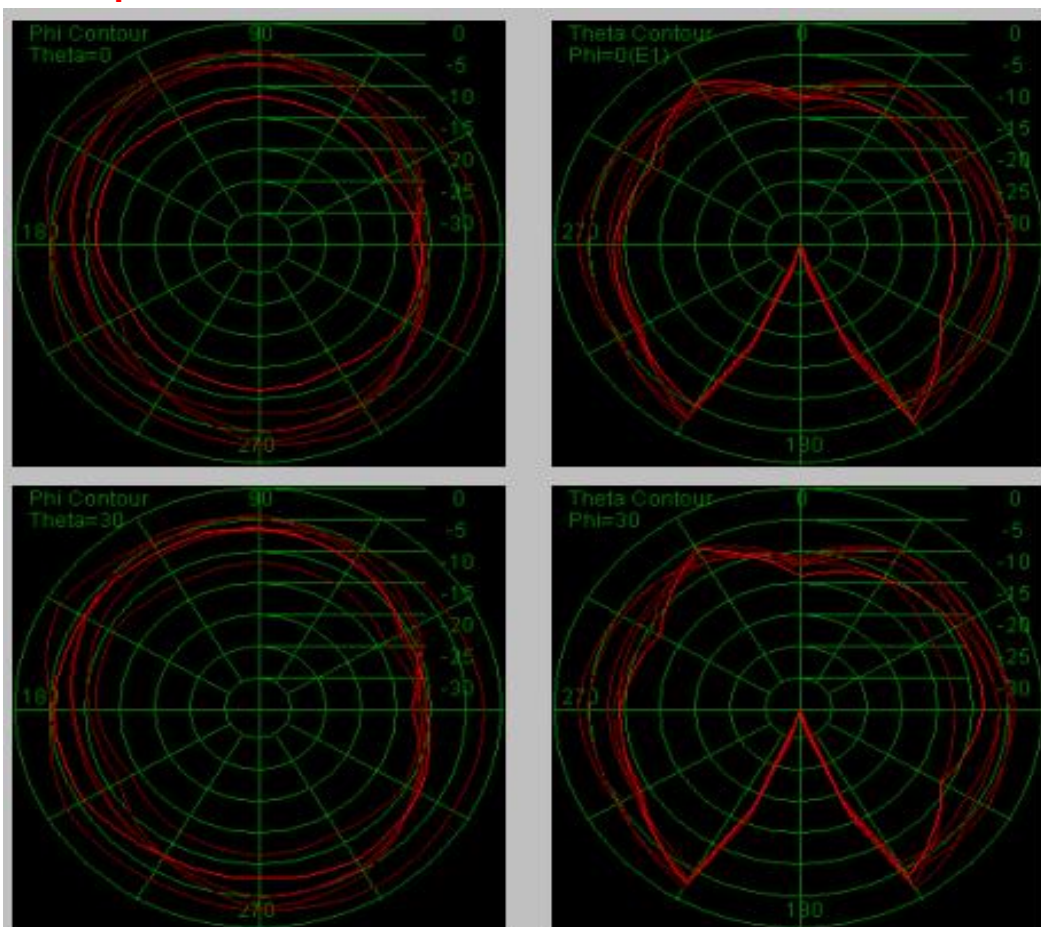
L-freespace



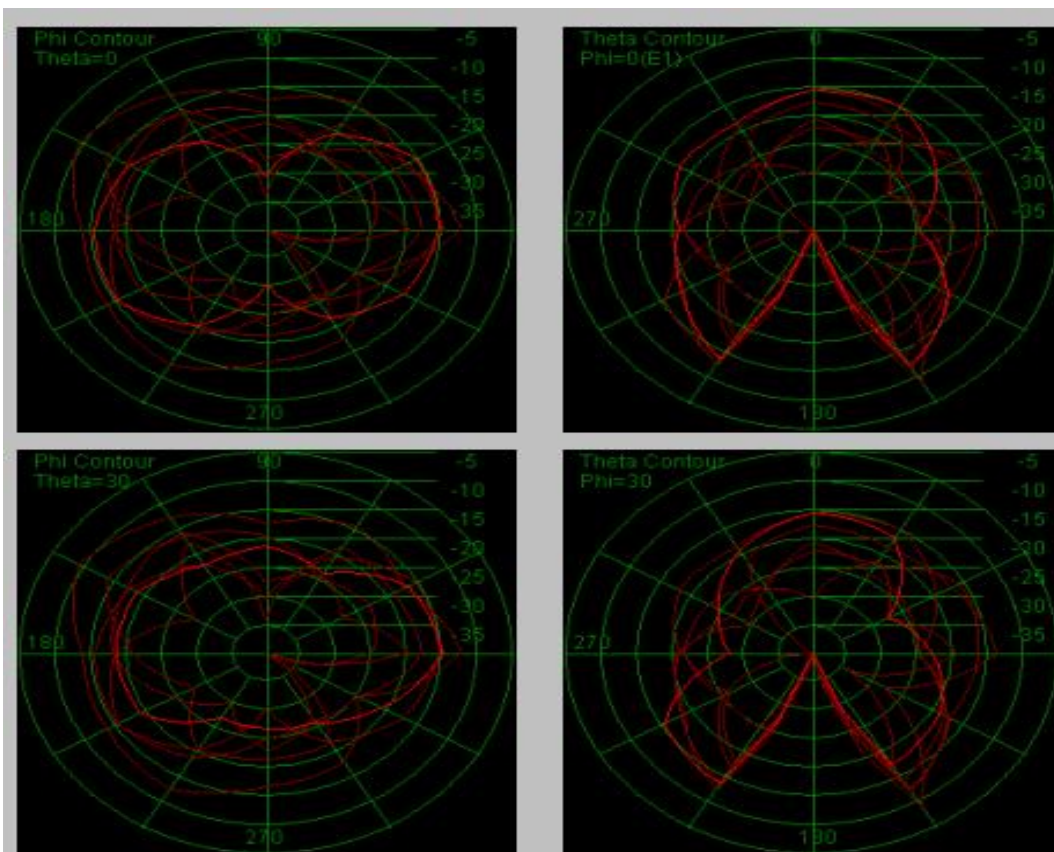
L-Headear



L-freespace

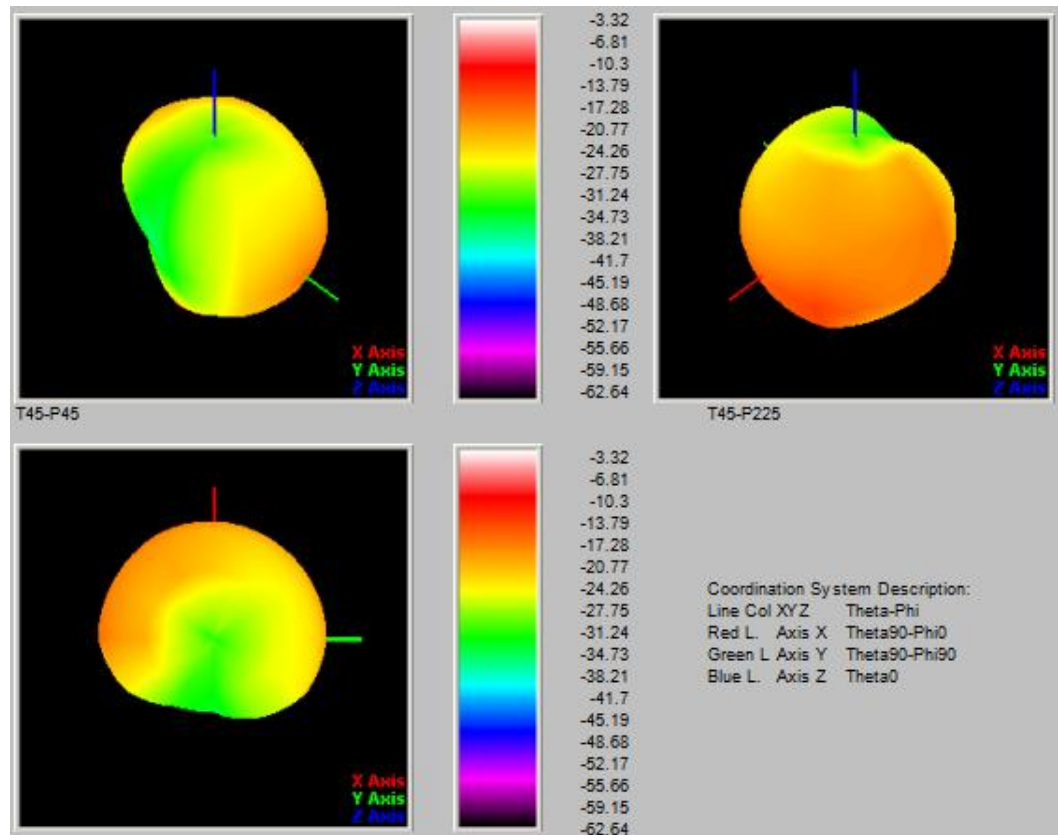


L-headear

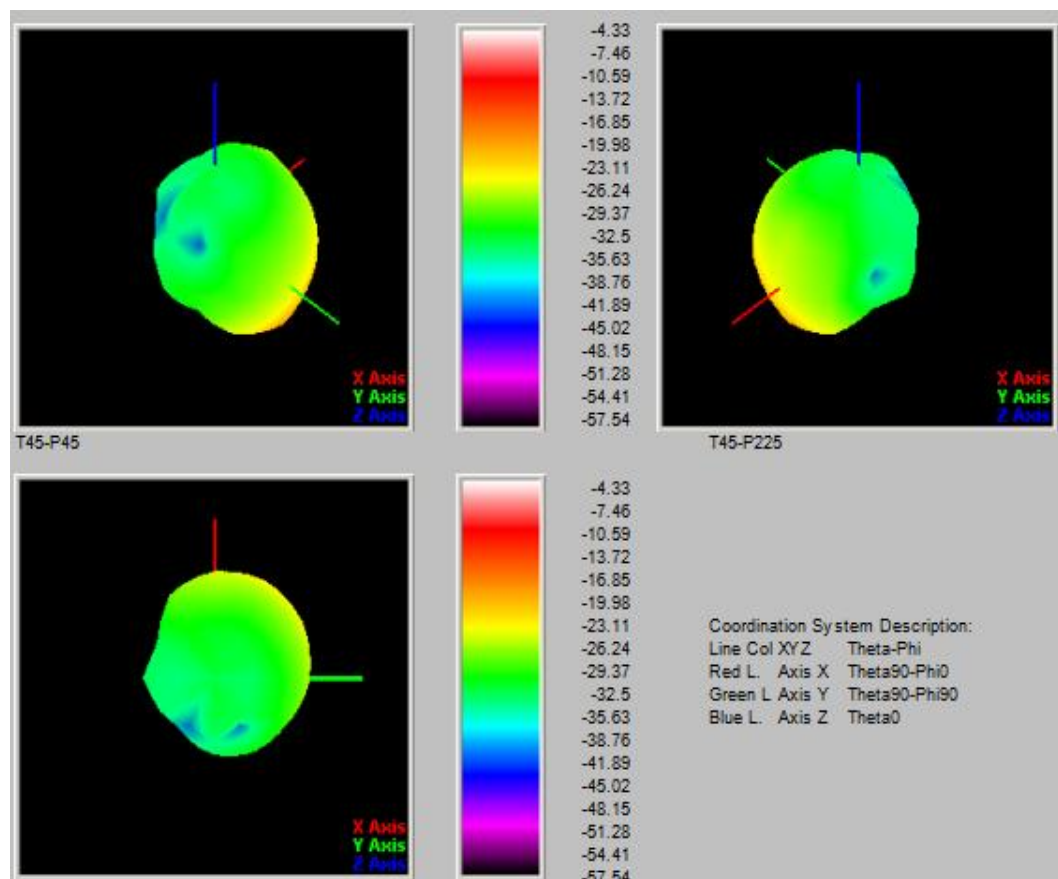


2.6 Direction diagram-R

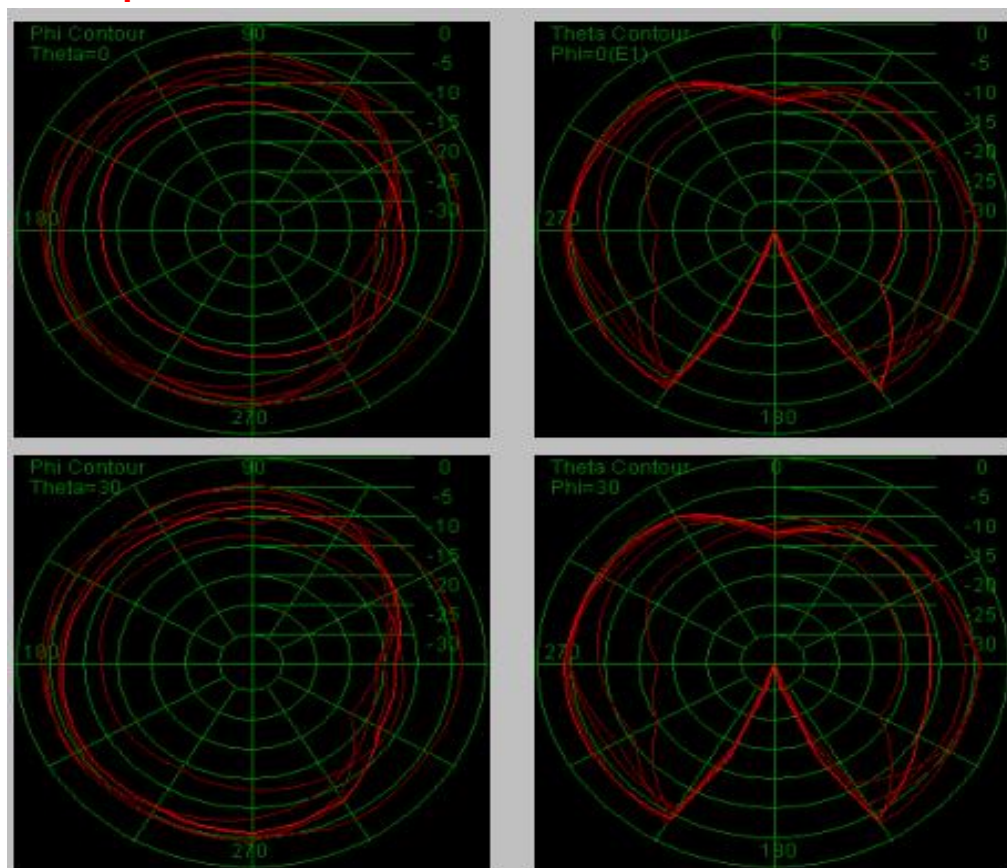
R-freespace



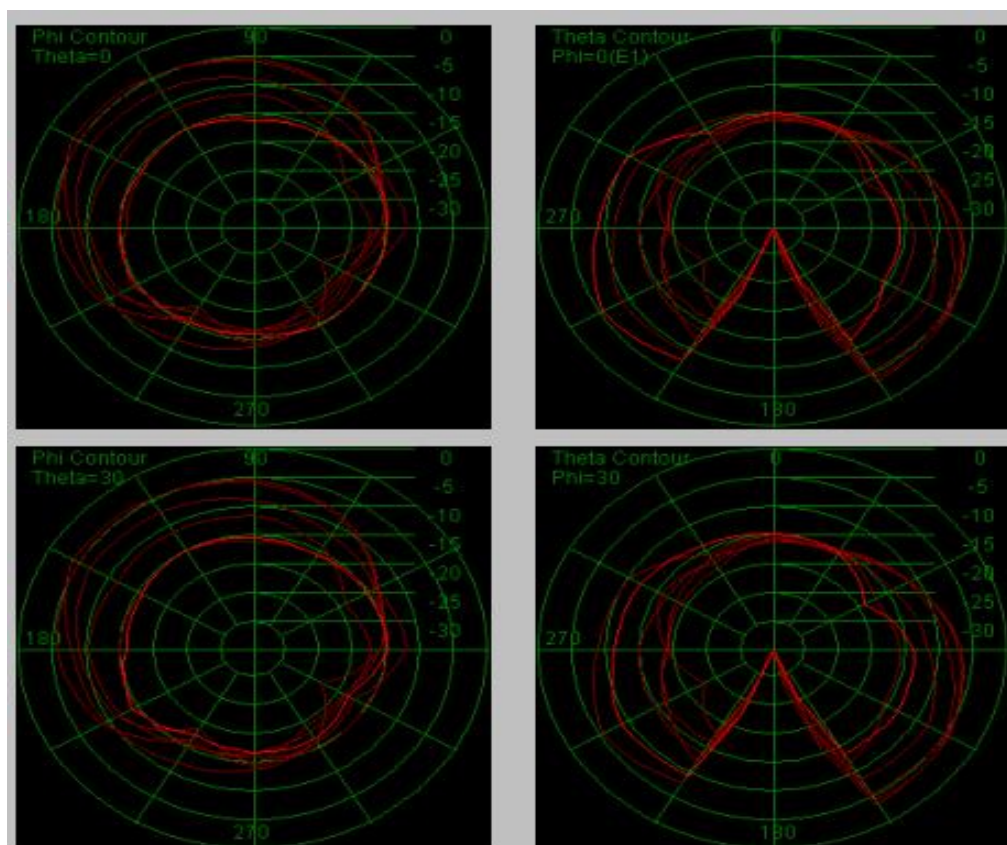
R-h eadear



R-freespace



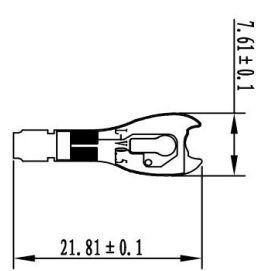
R-headear



3. Structural drawings

3.1 Left headphone drawing

由 Autodesk 教育版产品制作				A			
skills requirement:				1. PFC substrate specifications: PI substrate: 0.5mm Electrolytic copper: 0.5oz (HD) Double-sided tape: 3M-9471JSE 2. Electroplating specifications: Nickel plated: 3-8um Gildech: 0.025um 3. Surface ink requirements: Surface ink color: Matt black Printing font color: Bright black Printing font height: According to drawings			
4. Reliability requirements:				1. Reliability test: salt spray test/rubber friction test/alcohol resistance test/100 grid test. 2. The front ink, the surface of the ink is required to be folded in half without cracking, scratching, etc.			
5. Tolerance requirements:				1. Shape tolerance ± 0.10 ; 2. Copper foil circuit tolerance ± 0.05 ; 3. The position of the copper foil to the shape is ± 0.15 ; 4. Hole-to-hole position tolerance ± 0.10 ; hole-to-shape position tolerance ± 0.15 ; 5. The size tolerance of gold finger is ± 0.20 . 6. For other unmarked dimensions, refer to 2D drawings.			
6. Key control size:				The dimensions marked with numbers are regarded as important dimensions, and the others refer to 2D drawings			
7. Environmental requirements:				Parts meet ROHS2.0/REACH/CP environmental protection requirements			
8. Packaging requirements:				Packed in PE bags, the quantity of each bag is 100PCS, there is a mark on the outside of the bag			
DATE				Modify the content			
Version				Revise			
1				2			
3				4			
5				6			
7				8			



Gold plated Area

Shenzhen Yu Sheng Communication Equipment Co., Ltd.			
Model	A3983	DATE	20230329
Name	L-BT-PFC	Design	JFB
Part NO	095011-1A	Review	MD JFB
Material quality	Electrolytic copper (half to half)	RF	CKH
Hold surface treatment		confirm	
Appearance treatment		UNIT	mm
		proportion	1:1
		Revise	R: A

3.2 Right headset drawing

skills requirement:

1.FPC substrate specifications:
2.Electroplating specifications:
3.Surface ink requirements:

PI substrate:
Electrolytic copper:
Double-sided tape:
Nickel plated:
Surface ink color:
Printing font color:

0.5mm
0.5oz (35)
3M-9471LSE
G114ed, 0.025mm
Matt black
Br-ight black

4.Reliability requirements:

1. Reliability test: salt spray test\rubber friction test\alcohol resistance test\100 grid test.
2. The front ink, the surface of the ink is required to be folded in half without cracking, scratching, etc.

5.Tolerance requirements:

1. Shape tolerance ±0.10;
2. Copper foil circuit tolerance ±0.05;
3. The position of the copper foil to the shape is ±0.15;
4. Hole-to-hole position tolerance ±0.10; hole-to-shape position tolerance ±0.15;
5.The size tolerance of gold finger is ±0.20;
6. For other unmarked dimensions, refer to 2D drawings.

6.Key control size:

The dimensions marked with numbers are regarded as important dimensions, and the others refer to 2D drawings

7.Environmental requirements:

Parts meet RH65/0/9F/Reach/6P environmental protection requirements

8.Packaging requirements:

Packed in PE bags, the quantity of each bag is 100PCS, there is a mark on the outside of the bag

DATE

Modify the content

Version

Revise

1

2

3

4

5

位置

Model

Name

Part NO

Material quality

Gold surface treatment

Appearance treatment

UNIT

mm

proportion

FIT

Revise

R: A

6

Model

A3983

DATE

20230329

Design

JTB

Review

RP

CHK

7

DATE

20230329

Design

JTB

Review

RP

CHK

8

Revise

R: A

ShenZhen Yu Sheng Communication Equipment Co., Ltd.

Gold plated Area

21.81±0.1

7.61±0.1

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