

2.4.5 Efficiency

Left Ear Antenna Efficiency and Gain

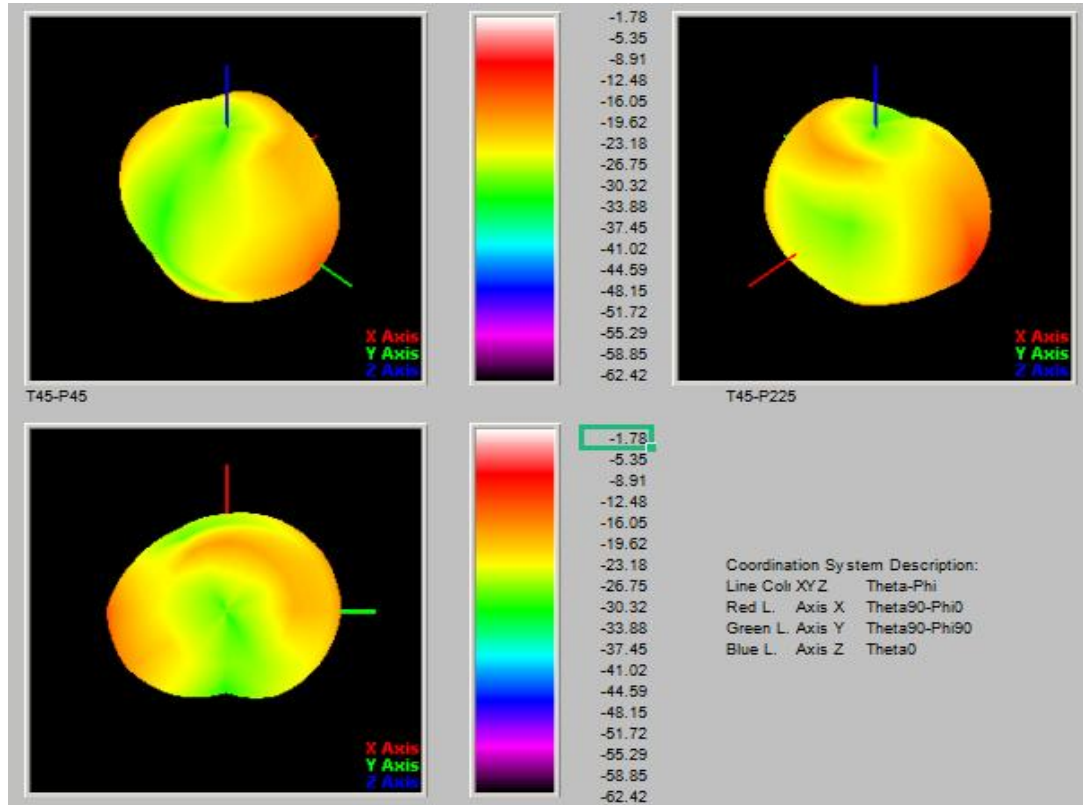
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	25%	-6.12	-2.01
2410	26%	-6.02	-1.85
2420	26%	-6.02	-1.75
2430	28%	-5.70	-1.62
2440	27%	-5.79	-1.42
2450	29%	-5.34	-1.38
2460	28%	-5.70	-1.58
2470	26%	-6.02	-1.75
2480	24%	-6.34	-1.80
2490	25%	-6.02	-1.92
2500	23%	-6.39	-2.15

Right Ear Antenna Efficiency and Gain

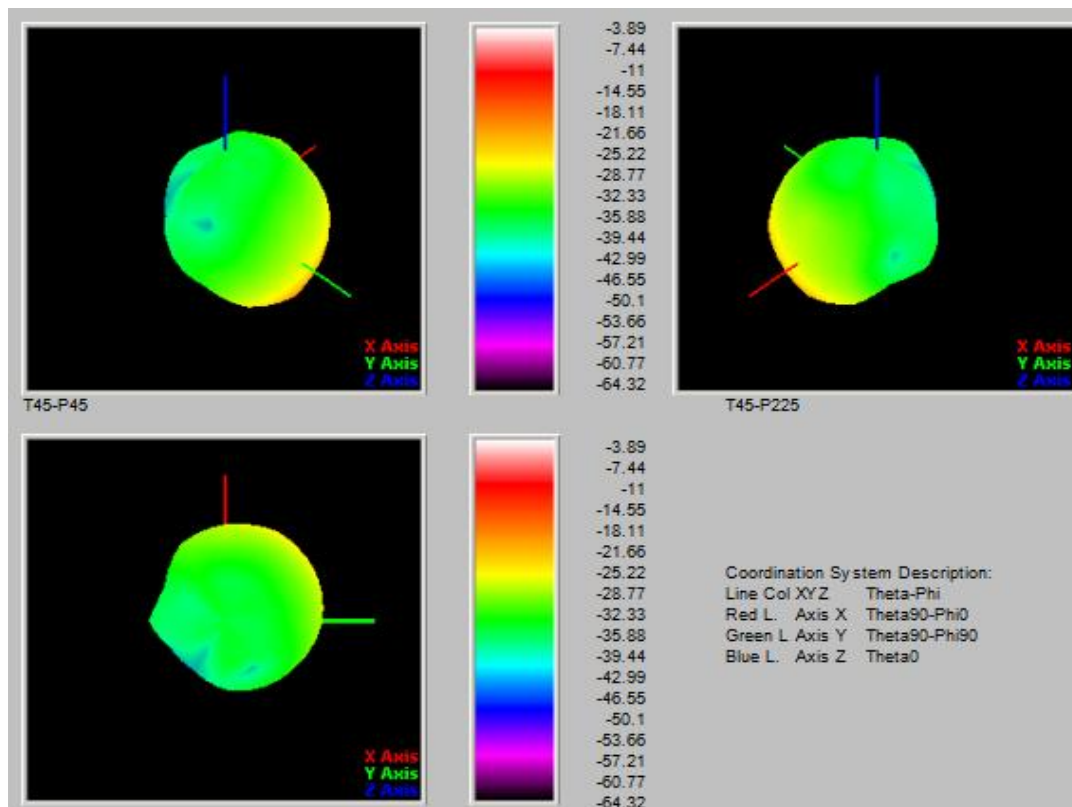
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	24%	-6.20	-2.10
2410	24%	-6.21	-2.02
2420	25%	-6.02	-1.78
2430	27%	-5.69	-1.65
2440	28%	-5.53	-1.50
2450	28%	-5.53	-1.38
2460	27%	-5.70	-1.60
2470	26%	-5.81	-1.74
2480	24%	-6.22	-1.60
2490	24%	-6.28	-1.91
2500	23%	-6.40	-2.11

2.5 Direction diagram-L

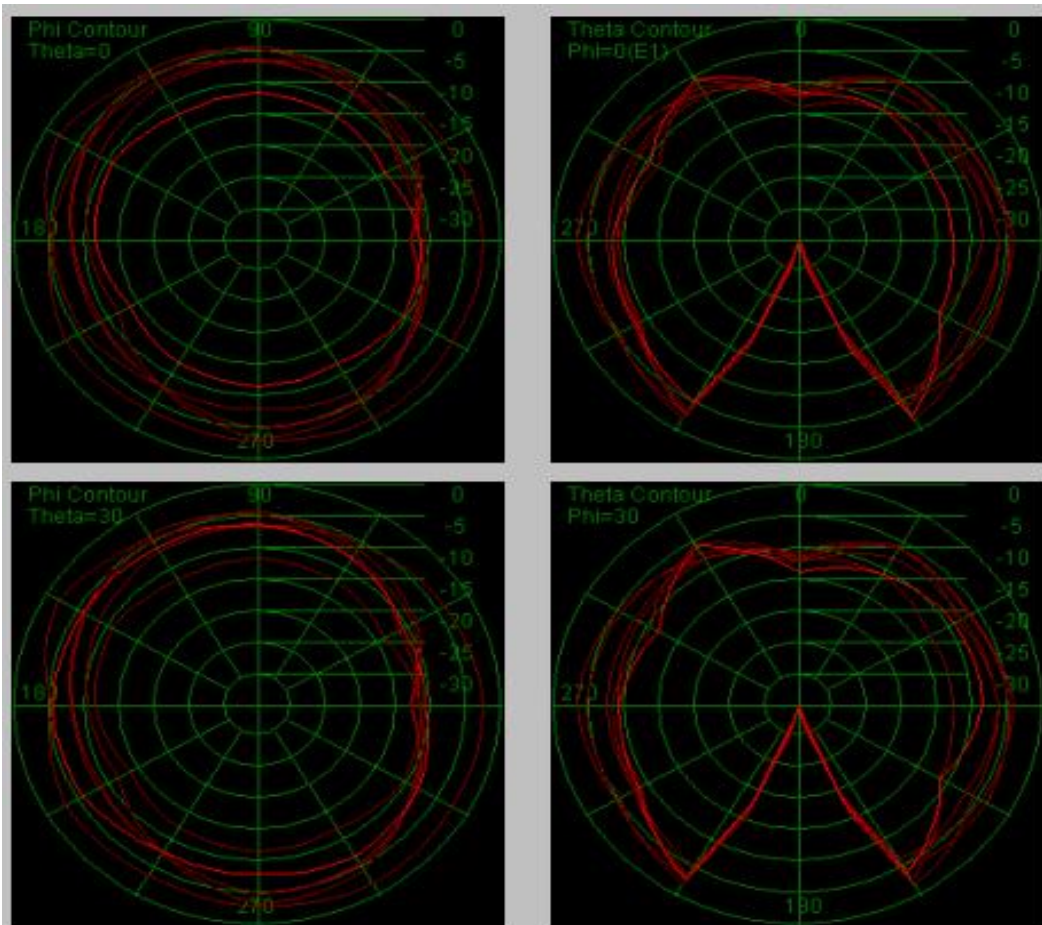
L-freespace



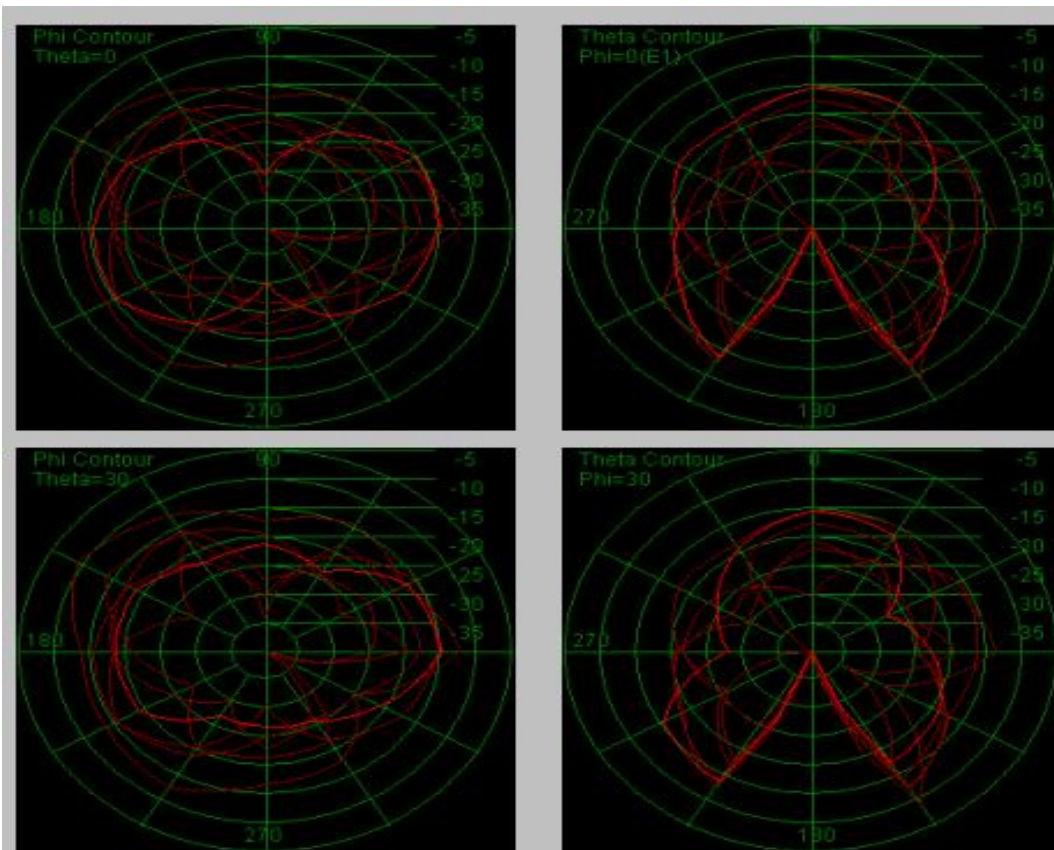
L-Headear



L-freespace

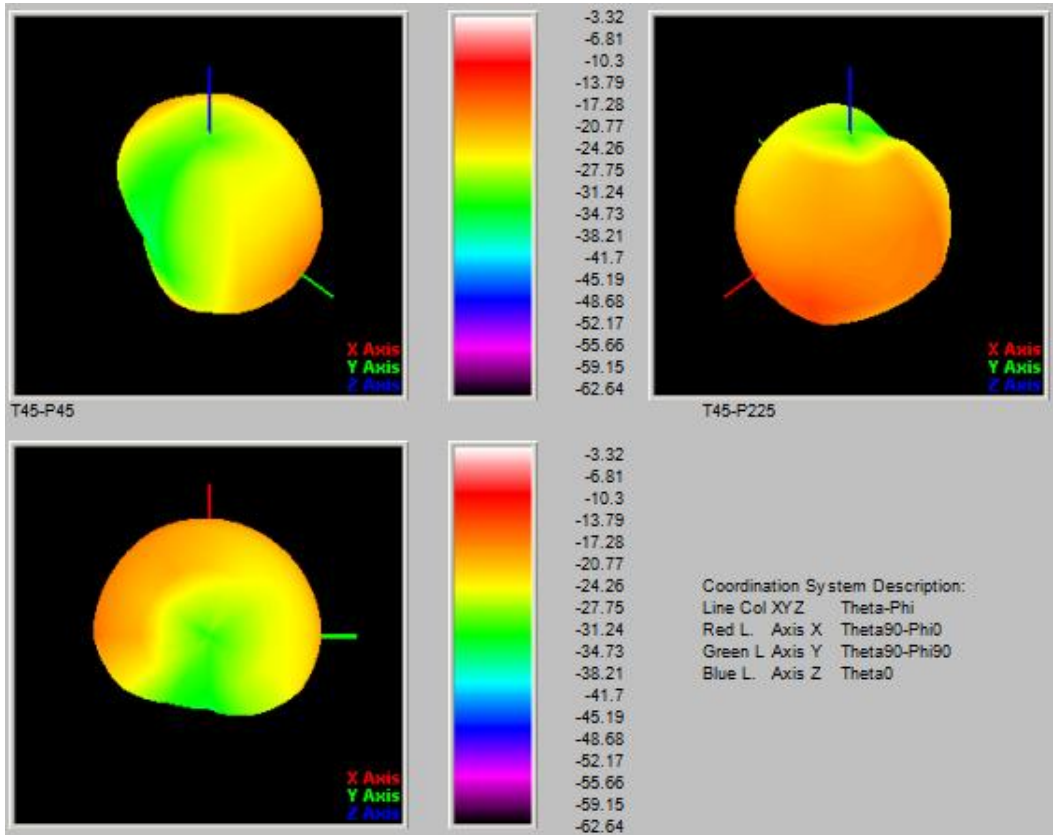


L-headear

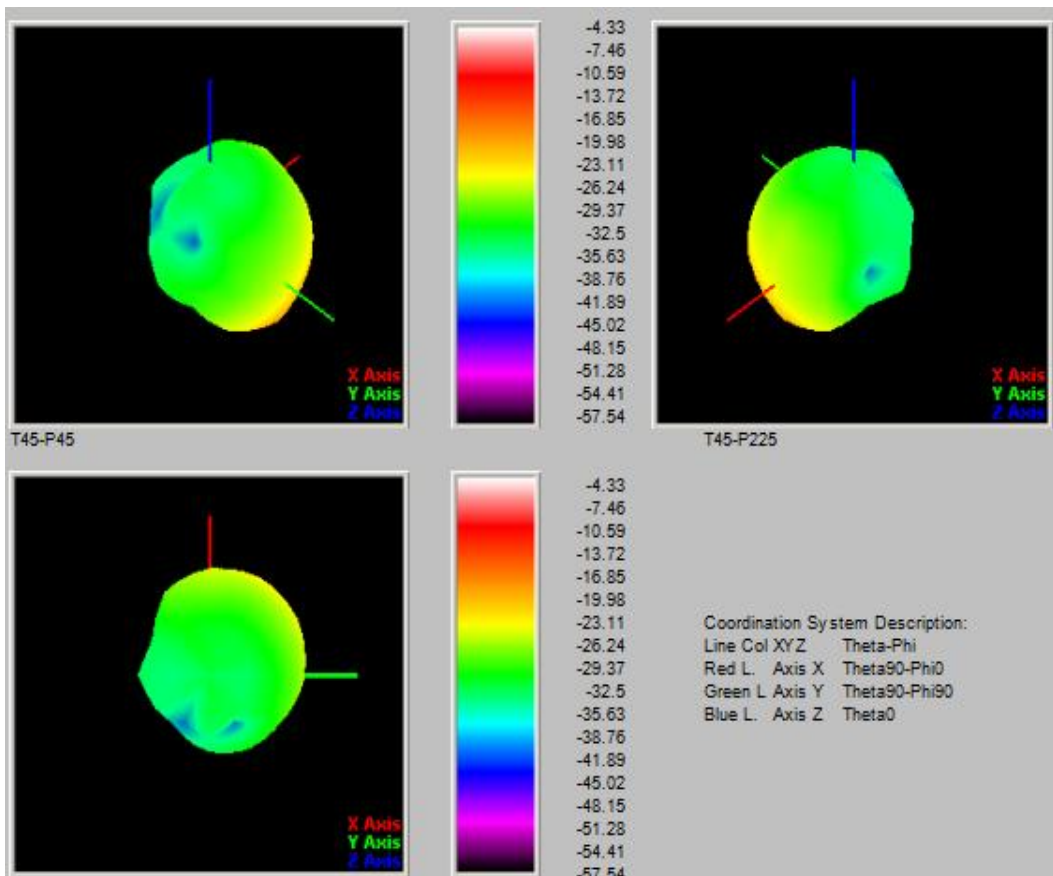


2.6 Direction diagram-R

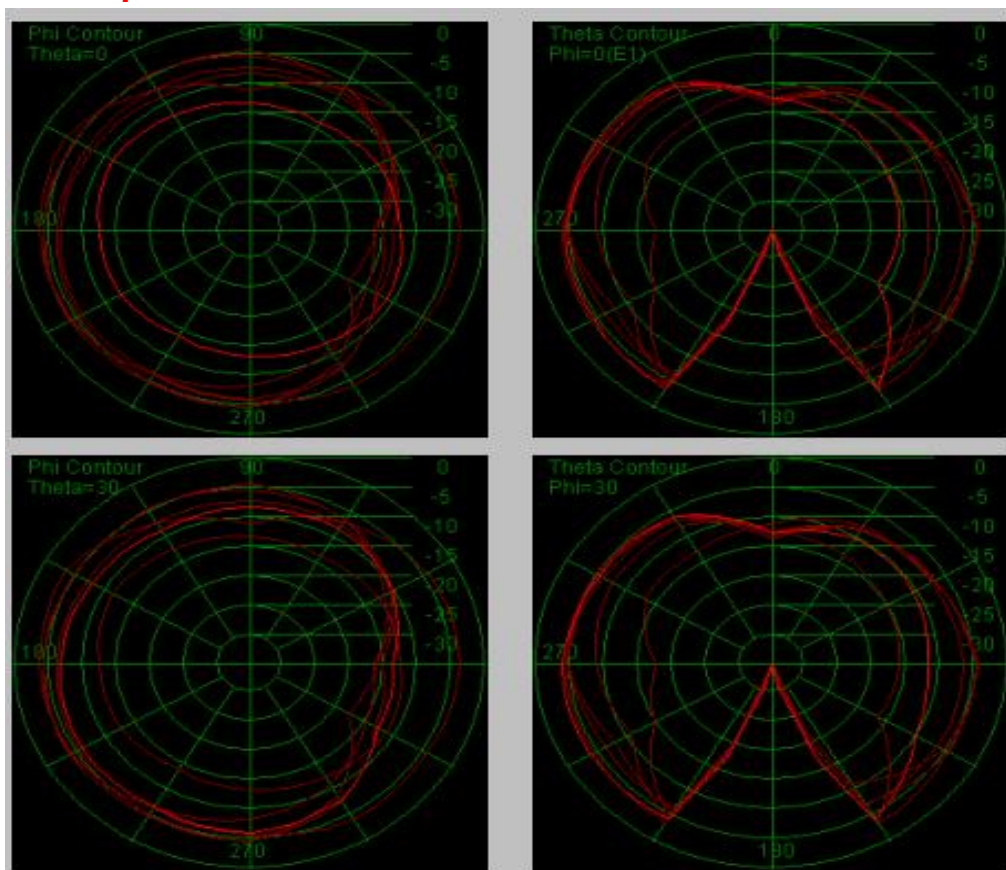
R-freespace



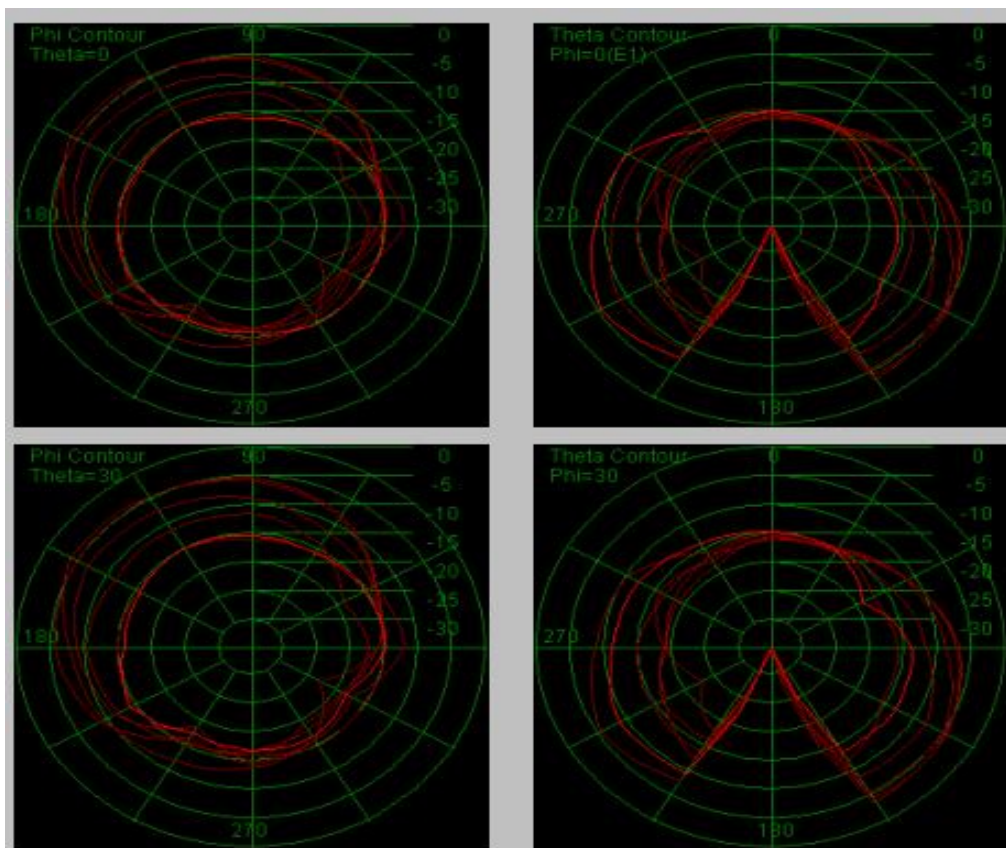
R-h eadear



R-freespace



R-headear



3. Structural drawings

3.1 Left headphone drawing

<p>skills requirement:</p> <p>1.PPC substrate specifications:</p> <p>2.Electroplating specifications:</p> <p>3.Surface ink requirements:</p> <p>4.Reliability requirements:</p> <p>5.Tolerance requirements:</p> <p>6.Key control size:</p> <p>7.Environmental requirements:</p> <p>8.Packaging requirements:</p>		<p>PI substrate: 0.5mil</p> <p>Electrolytic copper: 0.5oz(10D)</p> <p>Double-sided tape: 3M-9471LSE</p> <p>Nickel plated: 3-8um</p> <p>Surface ink color: Matt black</p> <p>Printing font color: Bright black</p> <p>Printing font height: According to drawings</p>																																												
		<p>1. Reliability test: salt spray test\rubber friction test\alcohol resistance test\100 grid test.</p> <p>2. The front ink, the surface of the ink is required to be folded in half without crocking, scratching, etc.</p> <p>1. Shape tolerance ± 0.10;</p> <p>2. Copper foil circuit tolerance ± 0.05;</p> <p>3. The position of the copper foil to the slope is ± 0.15;</p> <p>4. Hole-to-hole position tolerance ± 0.10; hole-to-shape position tolerance ± 0.15;</p> <p>5. The size tolerance of gold finger is ± 0.20;</p> <p>6. For other unmarked dimensions, refer to 2D drawings.</p>																																												
<p>The dimensions marked with numbers are regarded as important dimensions, and the others refer to 2D drawings</p>		<p>Parts meet ROHS2.0/REACH/GR environmental protection requirements</p> <p>Packed in PE bags, the quantity of each bag is 100PCS, there is a mark on the outside of the bag</p>		<p>Shenzhen Yu Sheng Communication Equipment Co., Ltd.</p>																																										
<p>DATE</p> <p>Modify the content</p>		<p>Version</p> <p>Revise</p>			<table border="1"> <tr> <td>0-10</td> <td>± 0.10</td> <td></td> <td>Model</td> <td>A3983</td> <td>DATE</td> <td>20230329</td> </tr> <tr> <td>10-20</td> <td>± 0.12</td> <td></td> <td>Name</td> <td>L-BT-PPC</td> <td>Design</td> <td>JFB</td> </tr> <tr> <td>20-40</td> <td>± 0.15</td> <td></td> <td>Part NO</td> <td>093011-1A</td> <td>Review</td> <td>JFB</td> </tr> <tr> <td>40-50</td> <td>± 0.20</td> <td></td> <td>Material quality</td> <td>Electrolytic copper (half to half)</td> <td>RF</td> <td>CKH</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Mold surface treatment</td> <td></td> <td>confirm</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Appearance treatment</td> <td></td> <td>UNIT</td> <td>mm</td> </tr> </table>	0-10	± 0.10		Model	A3983	DATE	20230329	10-20	± 0.12		Name	L-BT-PPC	Design	JFB	20-40	± 0.15		Part NO	093011-1A	Review	JFB	40-50	± 0.20		Material quality	Electrolytic copper (half to half)	RF	CKH				Mold surface treatment		confirm					Appearance treatment		UNIT
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由 Autodesk 教育版产品制作

Gold plated Area

3.2 Right headset drawing

由 Autodesk 教育版产品制作		A																																		
skills requirement:	PI substrate: 0.5mm1																																			
1. FPC substrate specifications:	Electrolytic copper: 0.5oz (2D)																																			
2. Electroplating specifications:	Double-sided tape: 3M-9471LSE Nickel plated: 3-8um Gilded: 0.025um																																			
3. Surface ink requirements:	Surface ink color: Matt black Printing font color: Bright black Printing font height: According to drawings	<p>■ Gold plated Area</p>																																		
4. Reliability requirements:	<p>1. Reliability test: salt spray test\rubber friction test\alcohol resistance test\100 grid test.</p> <p>2. The front ink, the surface of the ink is required to be folded in half without cracking, scratching, etc.</p>																																			
5. Tolerance requirements:	<p>1. Shape tolerance ±0.10;</p> <p>2. Copper foil circuit tolerance ±0.05;</p> <p>3. The position of the copper foil to the shape is ±0.15;</p> <p>4. Hole-to-hole position tolerance ±0.10; hole-to-shape position tolerance ±0.15;</p> <p>5. The size tolerance of gold finger is ±0.20.</p> <p>6. For other unmarked dimensions, refer to 2D drawings.</p>																																			
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7. Environmental requirements:	Parts meet ROHS2.0/REACH/CP environmental protection requirements		<p>ShenZhen Yu Sheng Communication Equipment Co., Ltd.</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Model</td> <td style="width: 10%;">A3983</td> <td style="width: 10%;">DATE</td> <td style="width: 10%;">20230329</td> </tr> <tr> <td>Name</td> <td>R-PT-FPC</td> <td>Design</td> <td>JFB</td> </tr> <tr> <td>Part NO</td> <td>095011-1B</td> <td>Review</td> <td>JFB</td> </tr> <tr> <td>Material quality</td> <td>Electrolytic copper (hair to hair)</td> <td>RF</td> <td>CKH</td> </tr> <tr> <td>Gold surface treatment</td> <td></td> <td>confirm</td> <td></td> </tr> <tr> <td>Appearance treatment</td> <td></td> <td>UNIT</td> <td>mm</td> </tr> <tr> <td></td> <td></td> <td>proportion</td> <td>FIT</td> </tr> <tr> <td></td> <td></td> <td>Revised</td> <td>R. A</td> </tr> </table>		Model	A3983	DATE	20230329	Name	R-PT-FPC	Design	JFB	Part NO	095011-1B	Review	JFB	Material quality	Electrolytic copper (hair to hair)	RF	CKH	Gold surface treatment		confirm		Appearance treatment		UNIT	mm			proportion	FIT			Revised	R. A
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