



样品规格书

Antenna Part Specification

客户名称: Customer name:	漫步者 EDIFIER
项目名称: Project name:	X5 Lite
天线类型: Material category:	天线组件 Antenna assembly
版本: Version:	V1.0
日期: Date:	2023.07.06



目录

Contents

一：无源测试报告	3
I: The report of passive data	3
二：暗室有源测试数据	8
II: 3D Active test report of antenna.....	8
三：匹配电路	9
III: Matching circuit	9
四：环境处理注意事项	10
IV: Environmental handling precautions	10
五：结构图档	11
V: Structure file	11

变更记录栏 Change record			
编制/变更日期 Compile / change date	变更理由 Reason for change	变更内容 Changed content	版本 Version



一：无源测试报告

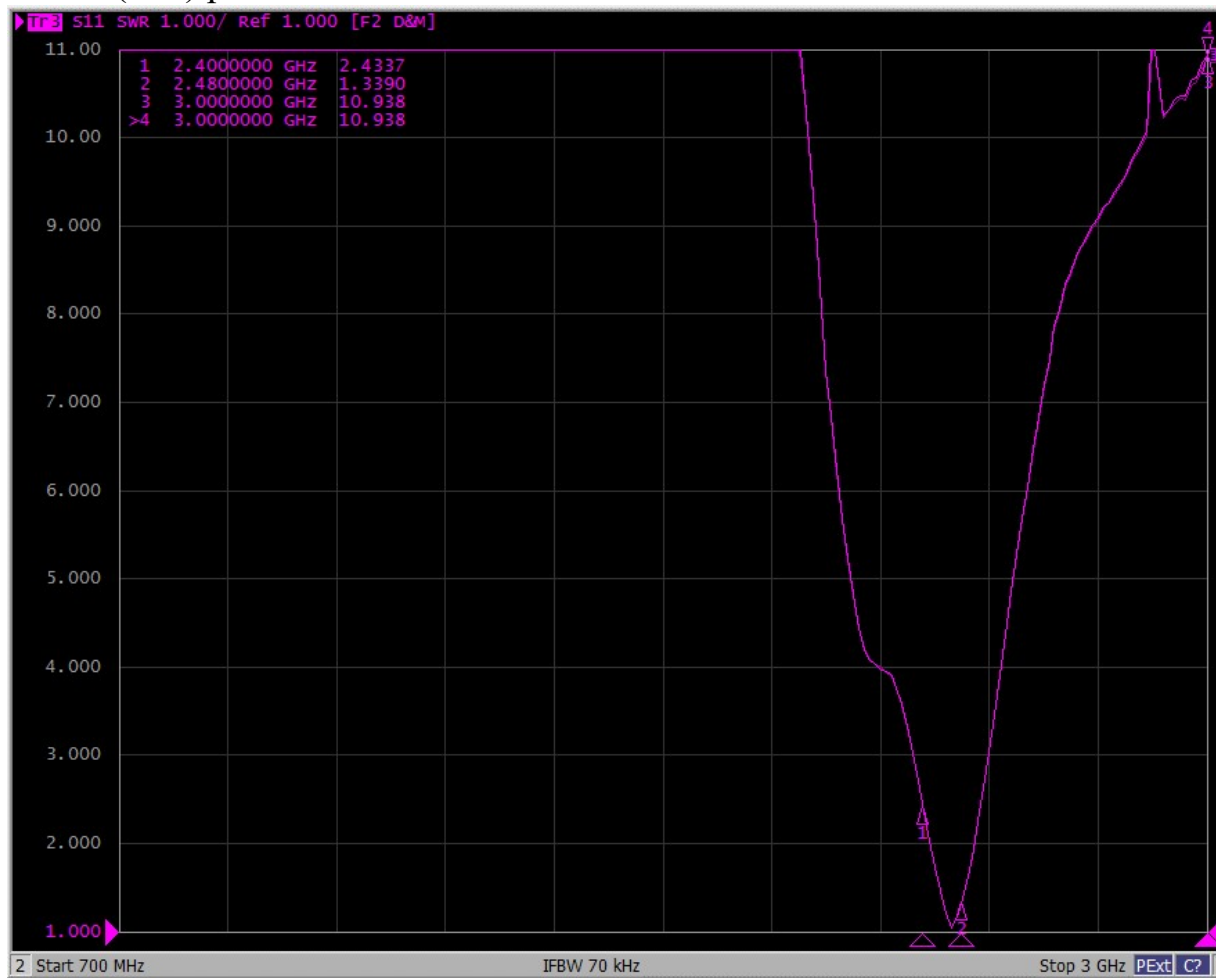
I: The report of passive data



Angilent E5071C

左耳天线 S 参数

VSWR(S11) parameter (L) :





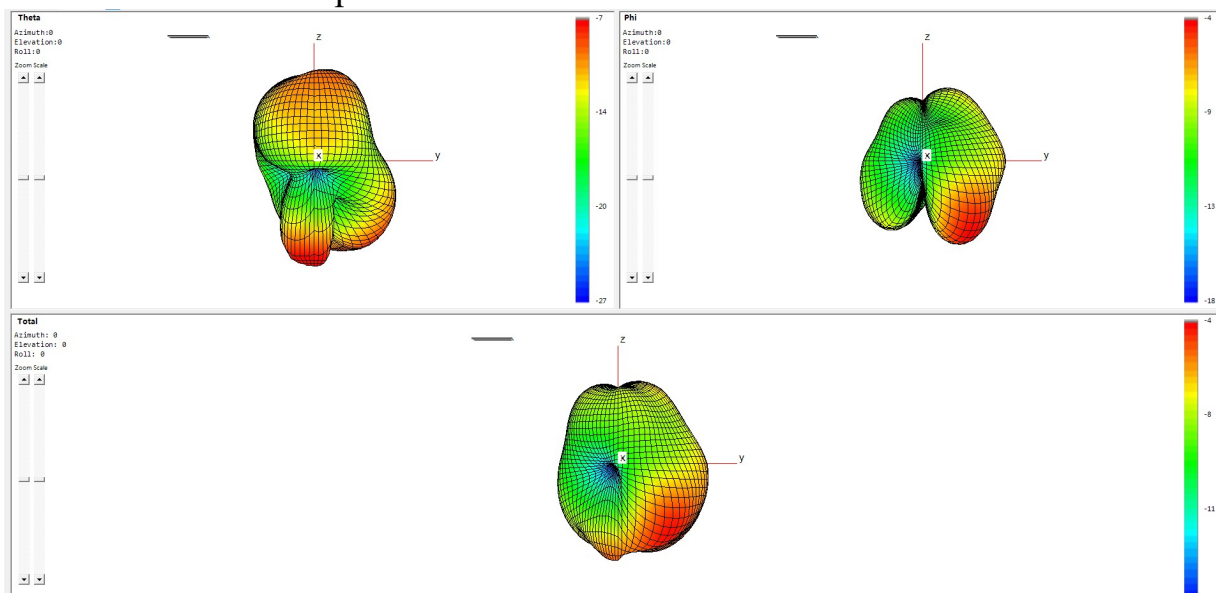
左耳天线效率和增益

Efficiency:

2400-2480 MHz (L)			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	20.7%	-6.9	-4.6
2410	22.0%	-6.6	-4.3
2420	23.1%	-6.4	-4.1
2430	23.3%	-6.3	-4.0
2440	23.3%	-6.3	-4.0
2450	23.9%	-6.2	-4.0
2460	23.8%	-6.2	-4.0
2470	25.1%	-6.0	-3.7
2480	25.6%	-5.9	-3.6
Average value	24.0%	-6.20	-3.93

左耳无源 3D 方向图

3D Antenna radiation pattern (L) :

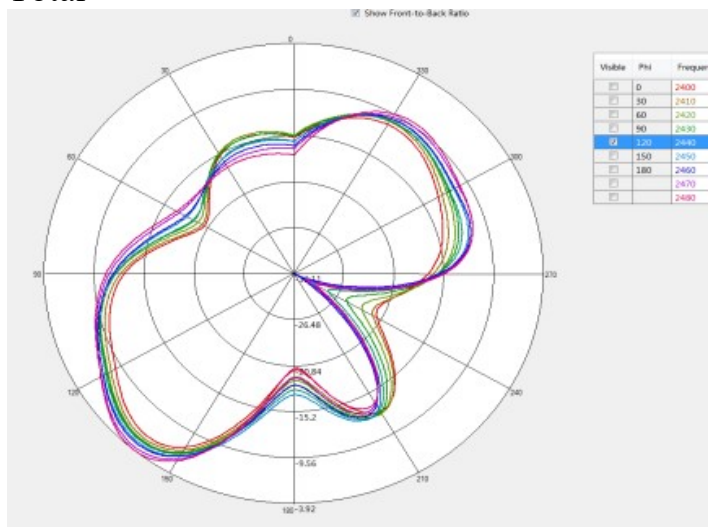




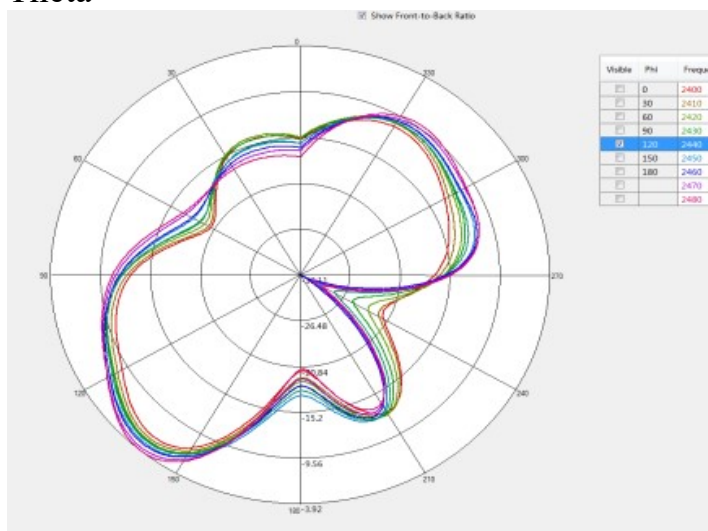
左耳无源 2D 方向图

2D Antenna radiation pattern (L) :

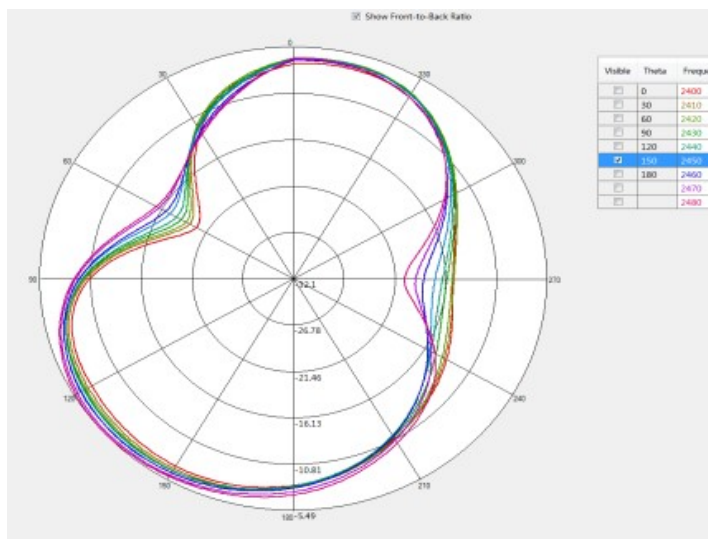
Total



Theta



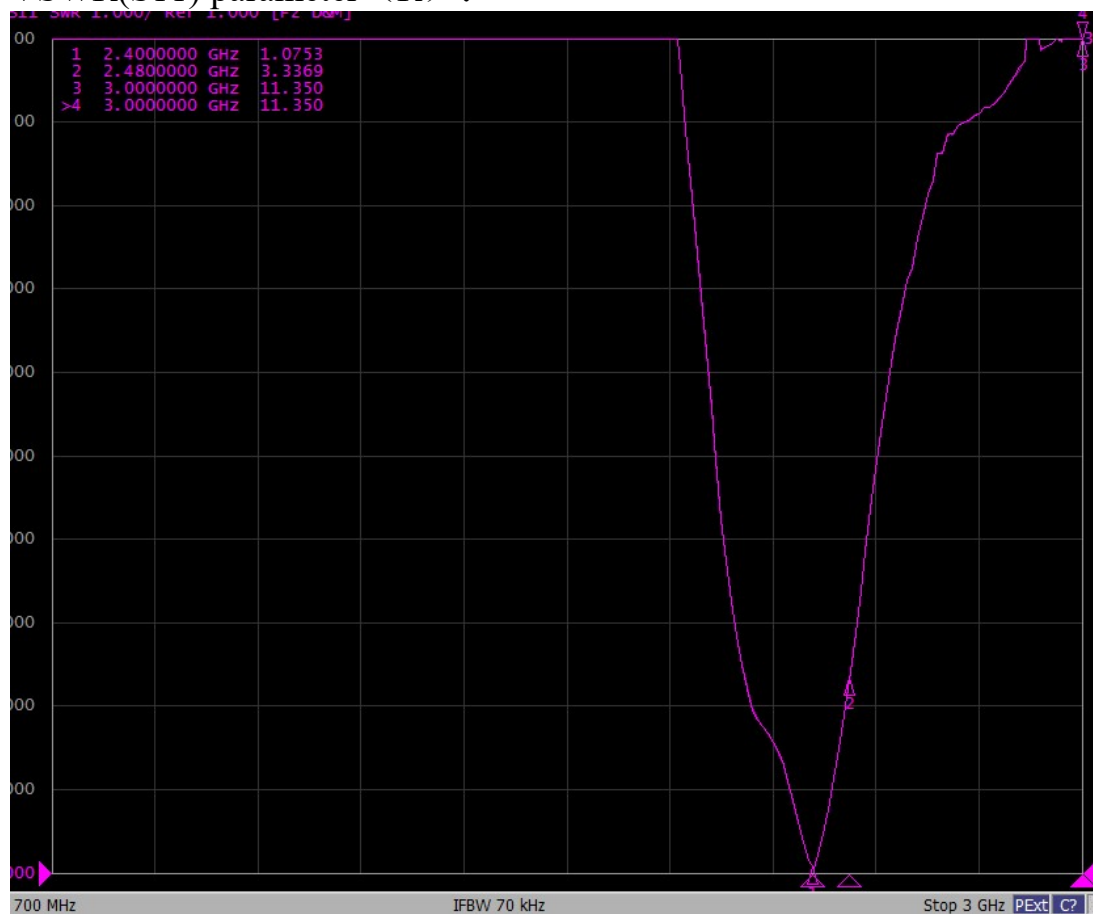
Phi





右耳天线 S 参数

VSWR(S11) parameter (R) :



右耳天线效率和增益

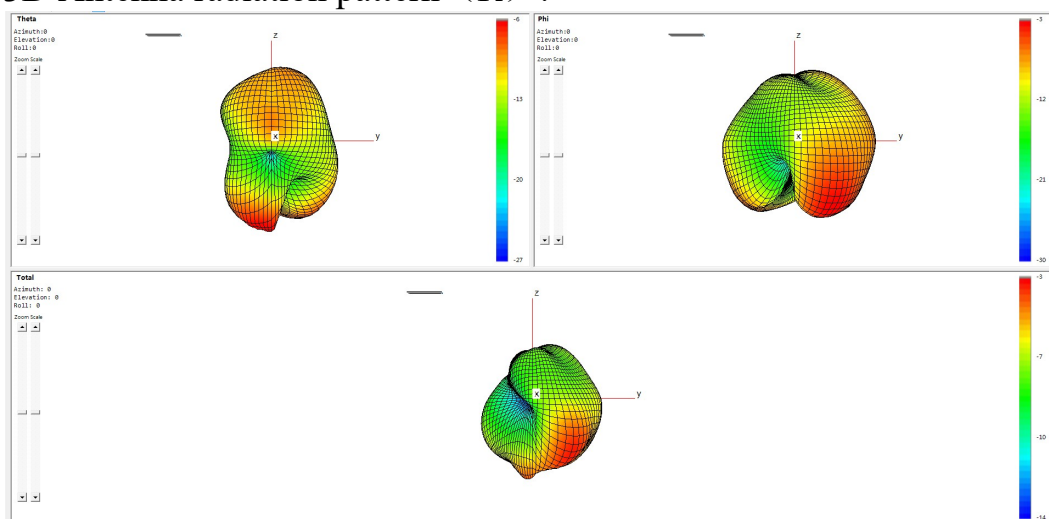
Efficiency:

2400-2480 MHz (R)			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	22.6%	-6.5	-3.3
2410	23.7%	-6.3	-3.1
2420	24.5%	-6.1	-3.0
2430	24.5%	-6.1	-3.0
2440	24.2%	-6.2	-3.1
2450	24.7%	-6.1	-3.2
2460	24.4%	-6.1	-3.3
2470	25.6%	-5.9	-3.0
2480	25.8%	-5.9	-3.1
Average value	24.8%	-6.05	-3.10



右耳无源 3D 方向图

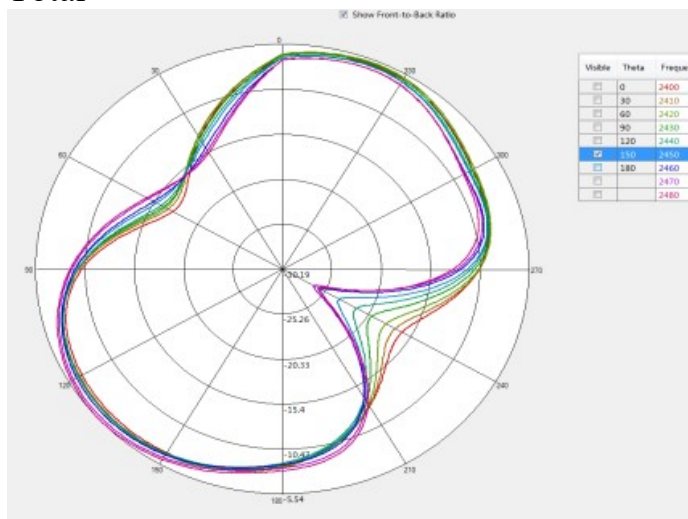
3D Antenna radiation pattern (R) :



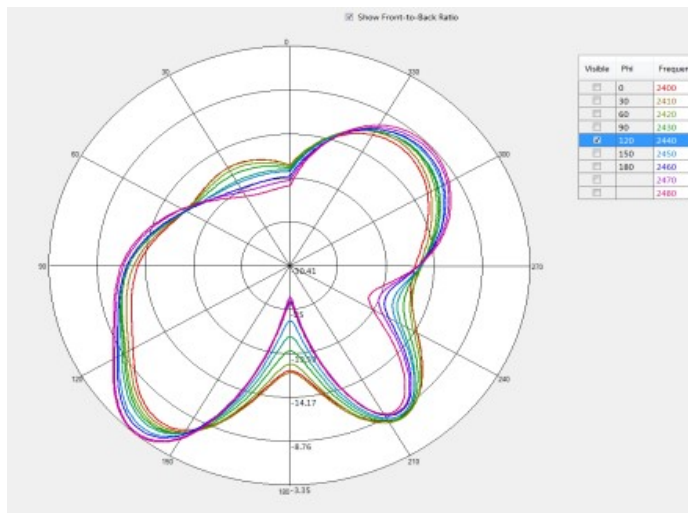
右耳无源 2D 方向图

2D Antenna radiation pattern (R) :

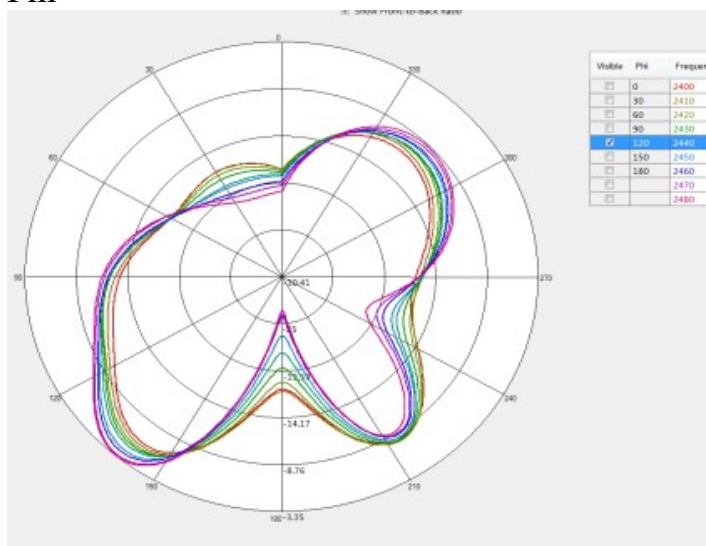
Total



Theta



Phi



二：暗室有源测试数据

II: 3D Active test report of antenna

	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	4.0	-88.7
	CH 39	4.8	-89.1
	CH 78	5.1	-89.2

	Channel	TRP (dBm)	TIS (dBm)
R	CH 0	4.2	-88.6
	CH 39	5.1	-89.3
	CH 78	4.3	-88.8



OTA Standard Chamber



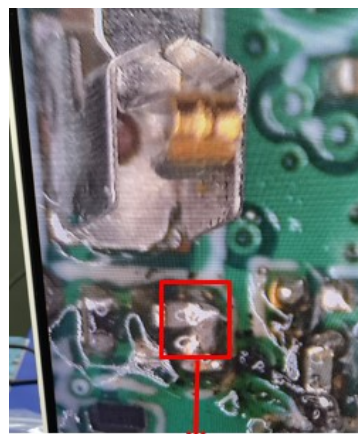
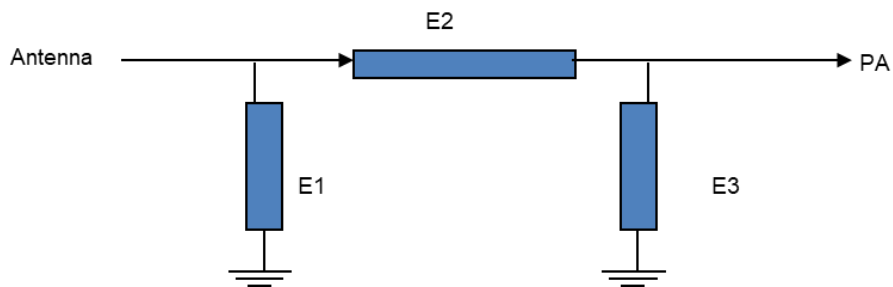
三：匹配电路

III: Matching circuit

左耳匹配电路

L-matching circuit

Element	Value
E1	1.8pF
E2	0Ω
E3	N/A

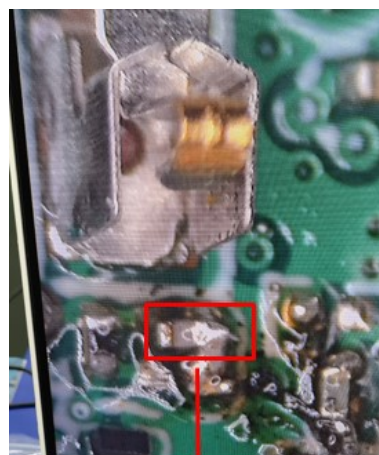
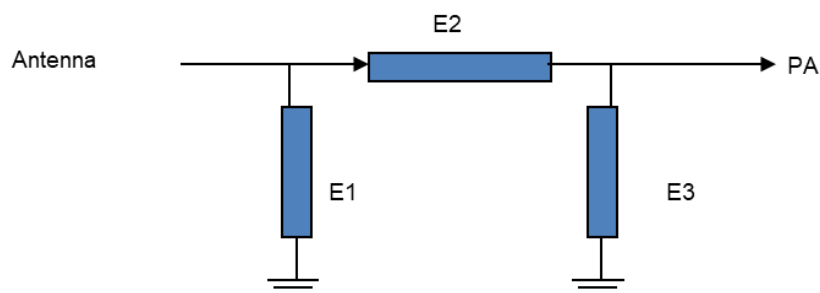


1.8pF

右耳匹配电路

R-matching circuit

Element	Value
E1	1.8pF
E2	0Ω
E3	N/A



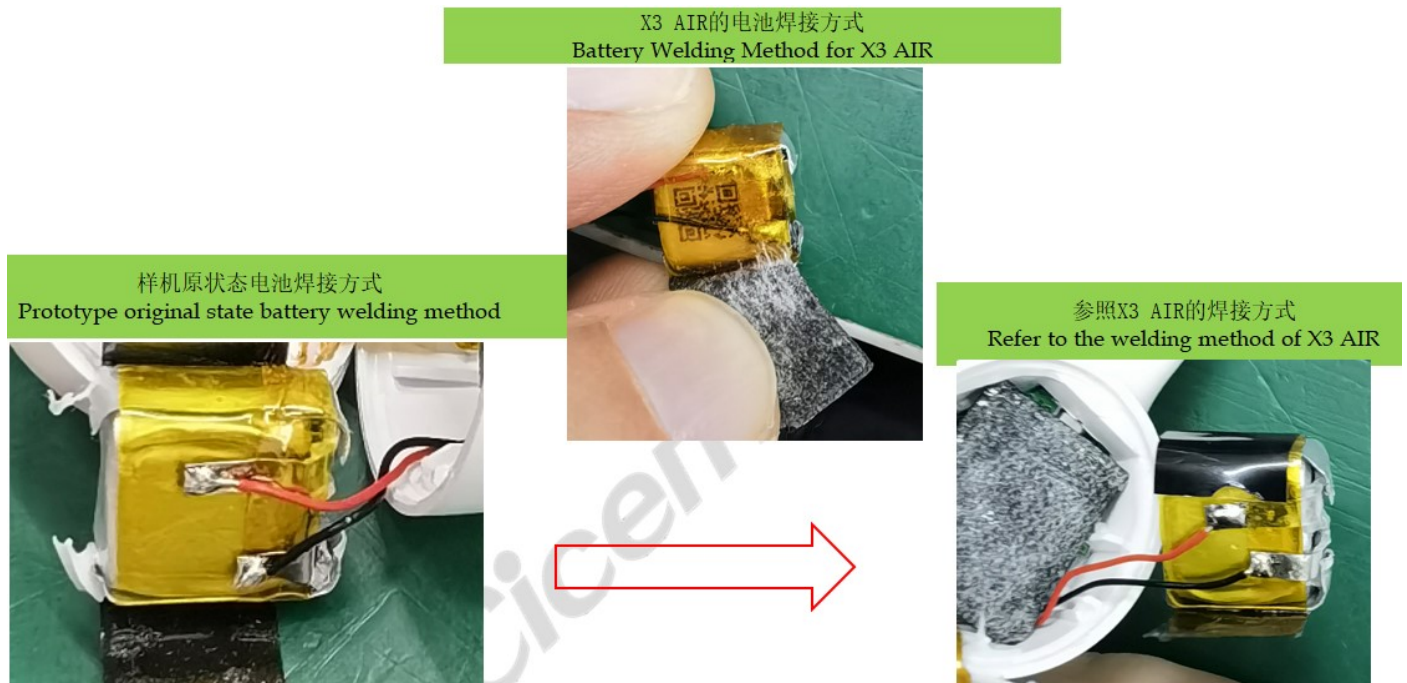
1.8pF

四：环境处理注意事项

IV: Environmental handling precautions

① 电池线焊接

① Welding of battery cables



原状态电池线是逆着电池的极耳方向焊接的，需要参考 X3 项目的焊接方式，电池线顺着极耳的方向焊接。

The original state battery wire is welded against the direction of the battery's pole ear, and it needs to refer to the welding method of X3 project. The battery wire is welded along the direction of the pole ear.

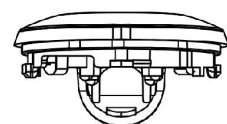
② 电池线装配

② Battery line assembly method



装配时注意，电池摆放为极耳方向对着天线馈脚方向。电池放正，居中摆放。
When assembling, pay attention to placing the battery in the direction of the pole ear facing the antenna feed foot. Place the battery upright and centered.

V: Structure file



FPC: *10,60±0.20.

—FPC: *14,59±0,20

表面印刷黄色油墨

一丝印白色字体

/ HPLC大线区域

手机上壳

 深圳市思讯通信技术有限公司 Shenzhen Cicent Communication Technology Co., Ltd									
 第三角法									
未注公差按标准			料号		规格		M3 Lite		
 0.02			日期		2023/07/05		品名		左耳天线组件
 0.02			设计		LFE		页码		1/1
 0.04			材质		审核		T10		
 0.02			单位		mm		比例		1:1
请勿实测图纸									

