



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



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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

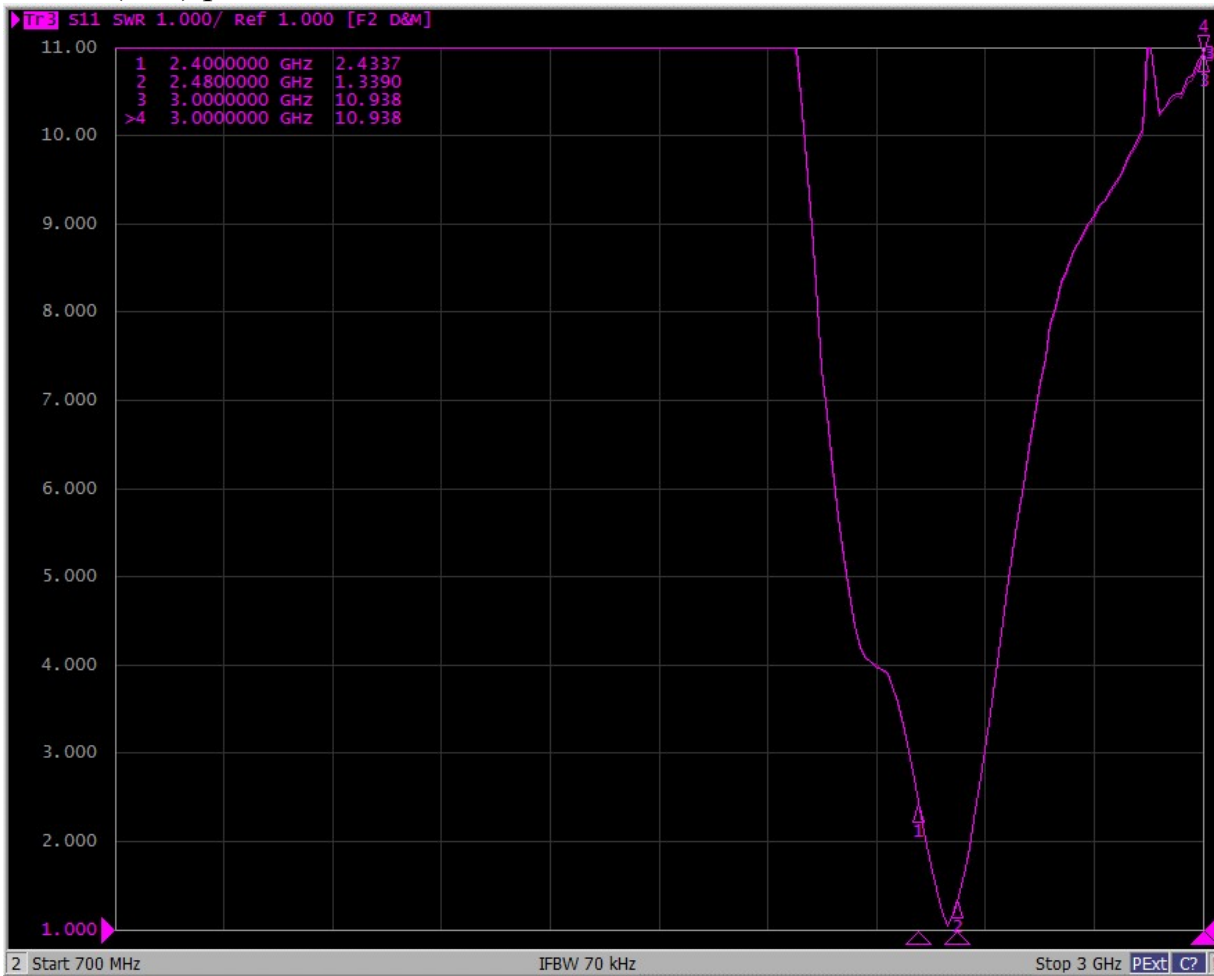
I: The report of passive data



Angilent E5071C

左耳天线 S 参数

VSWR(S11) parameter (L) :





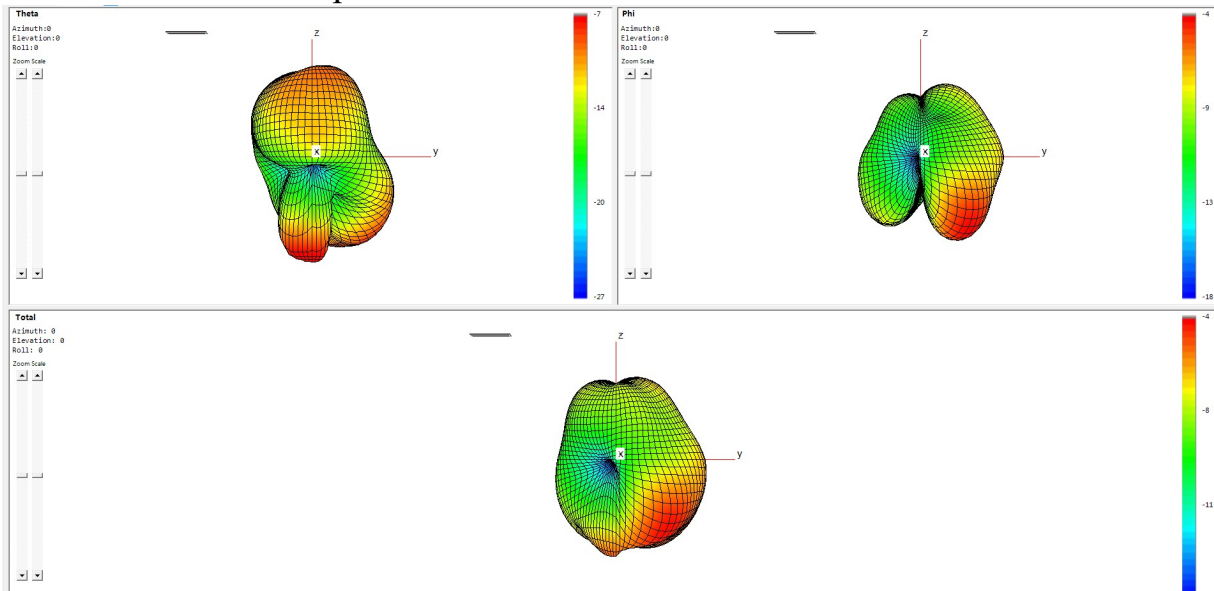
左耳天线效率和增益

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

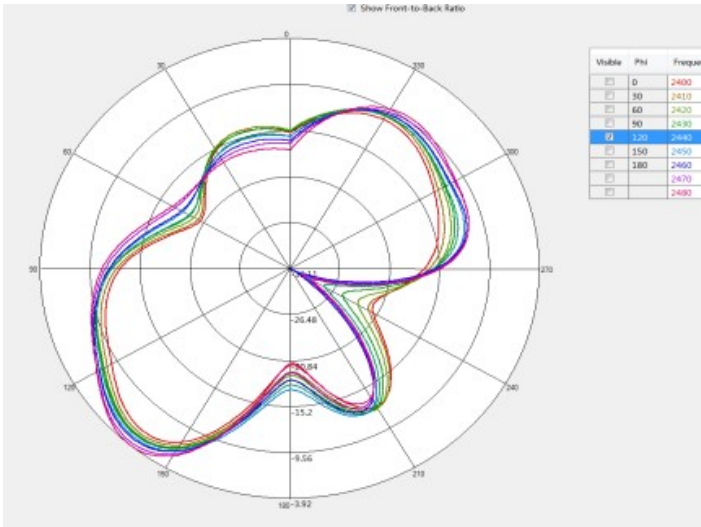
3D Antenna radiation pattern (L) :



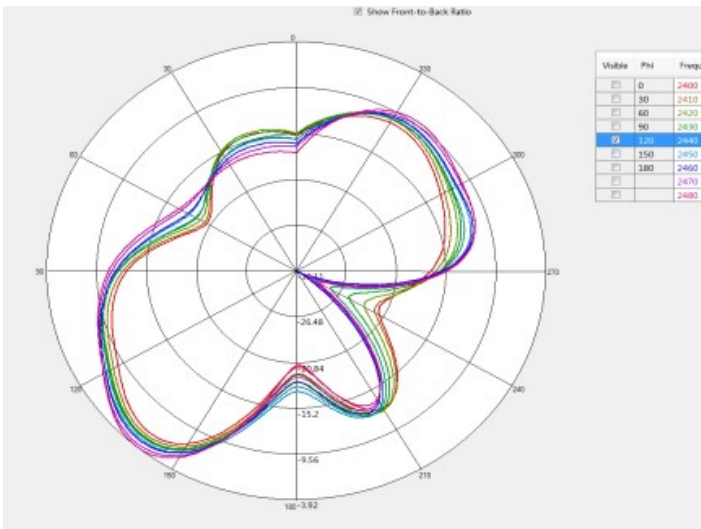


左耳无源 2D 方向图

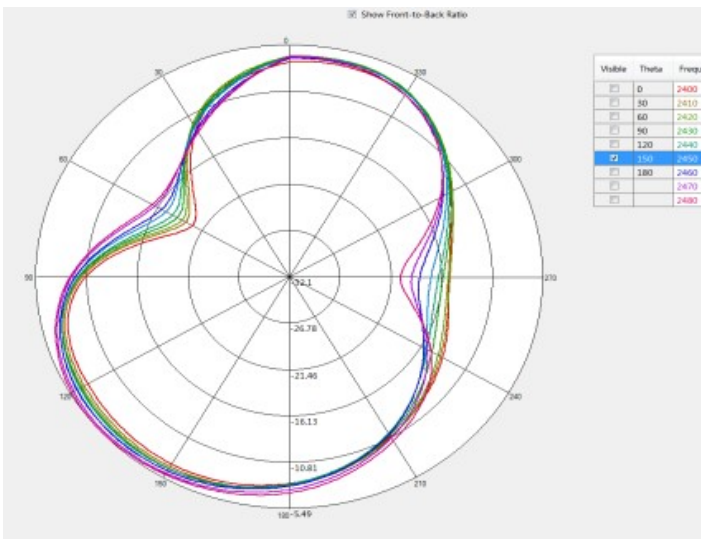
2D Antenna radiation pattern (L) :
Total



Theta



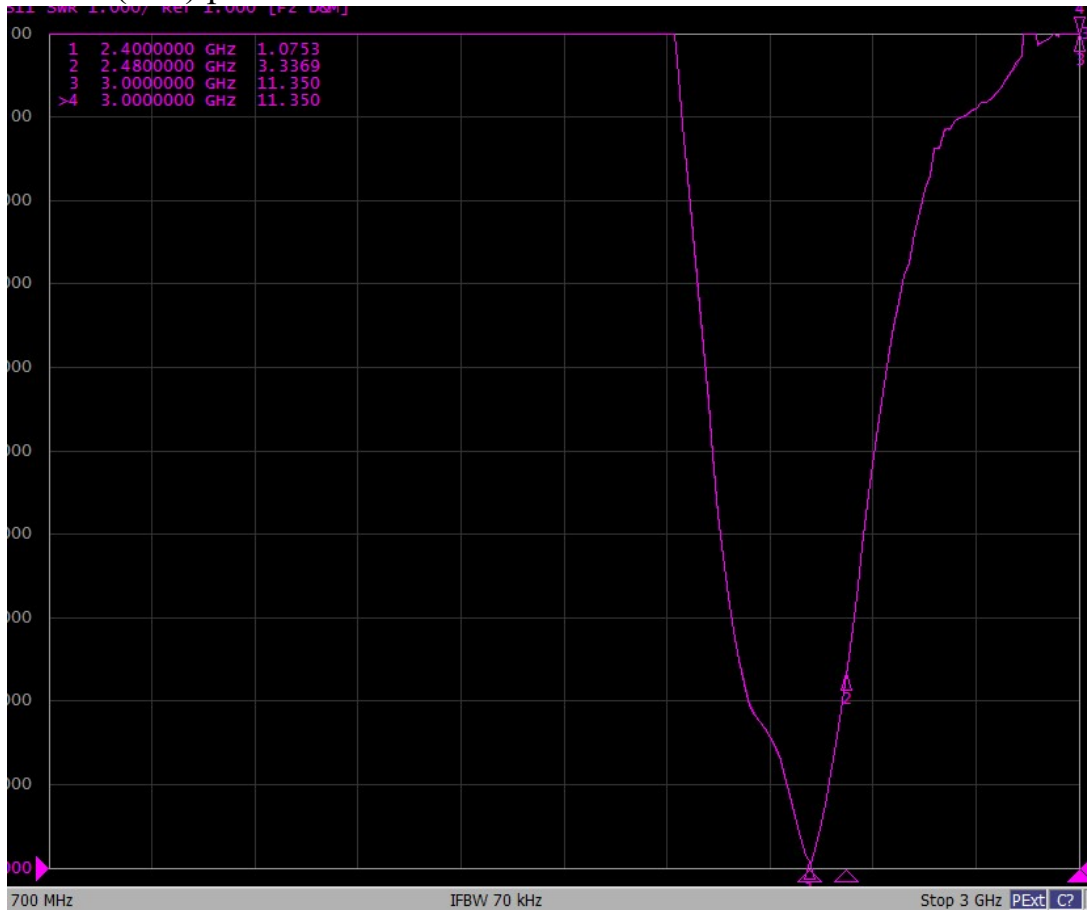
Phi





右耳天线 S 参数

VSWR(S11) parameter (R) :



右耳天线效率和增益

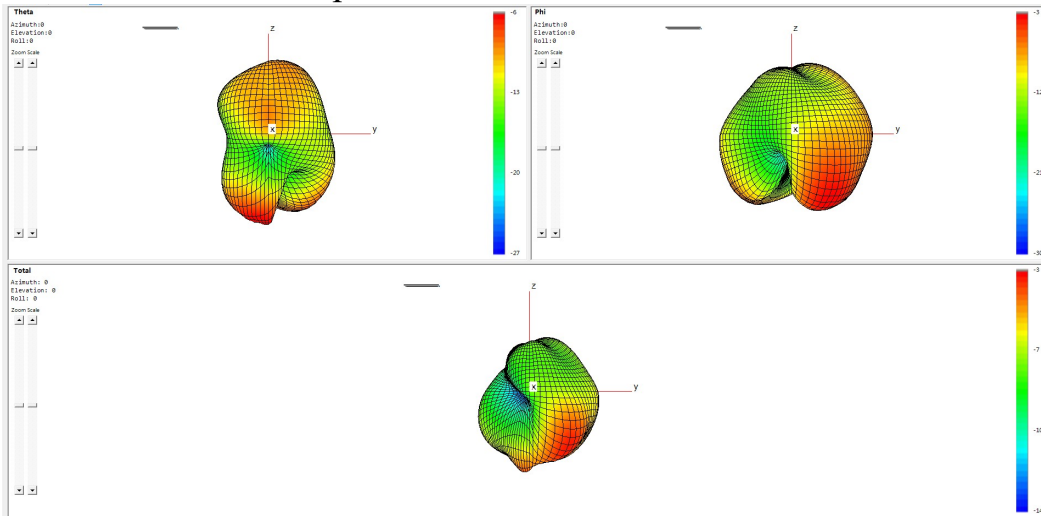
Efficiency:

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

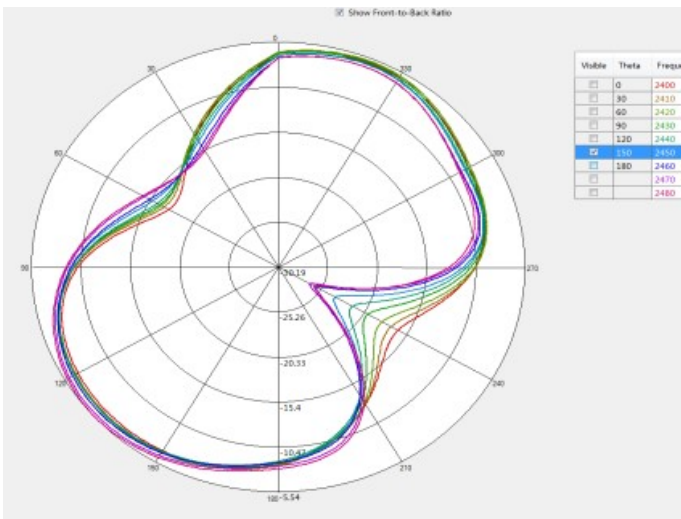
3D Antenna radiation pattern (R) :



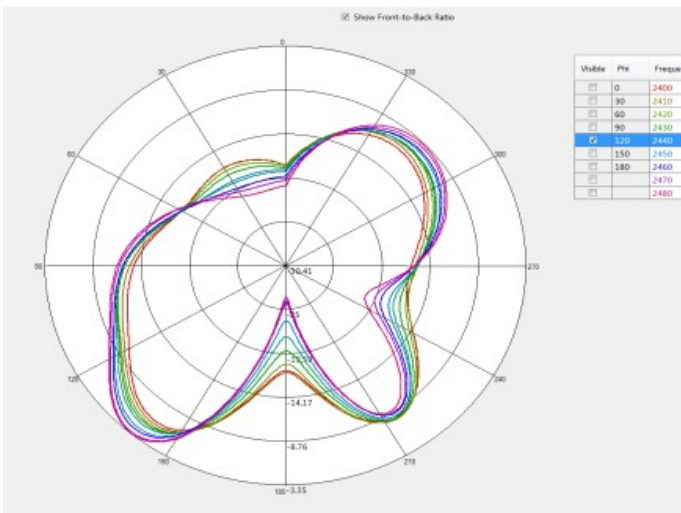
右耳无源 2D 方向图

2D Antenna radiation pattern (R) :

Total

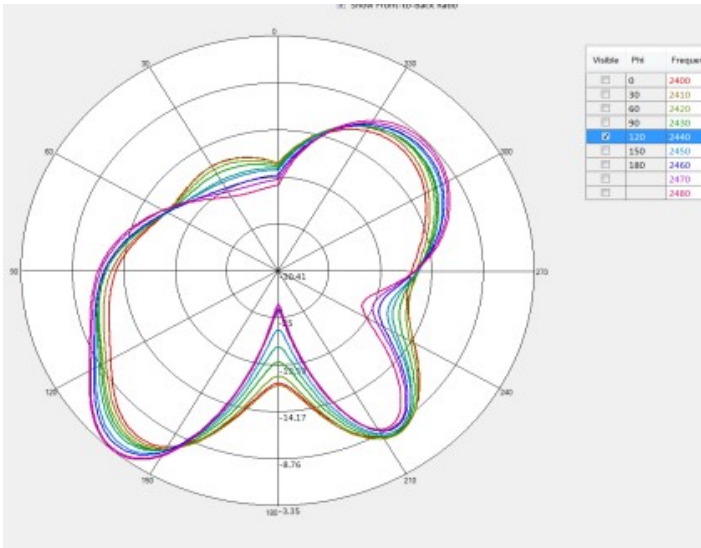


Theta





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



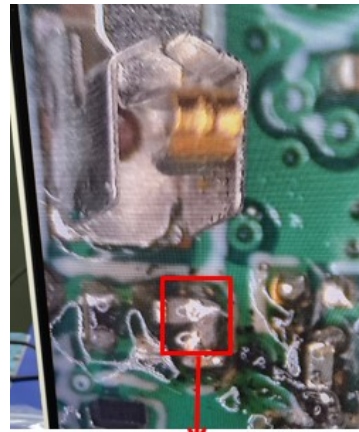
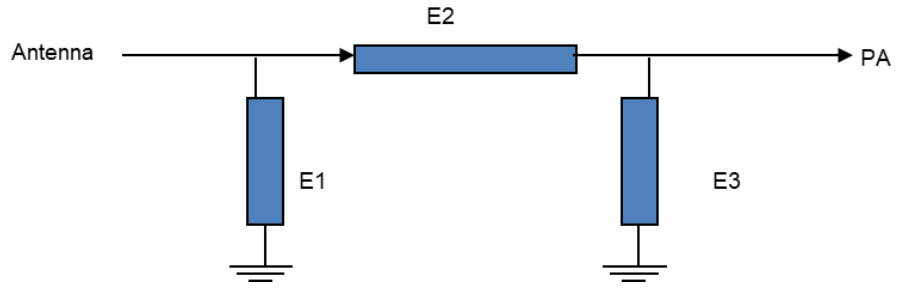
三：匹配电路

III: Matching circuit

左耳匹配电路

L-matching circuit

Element	Value
E1	1.8pF
E2	0Ω
E3	N/A

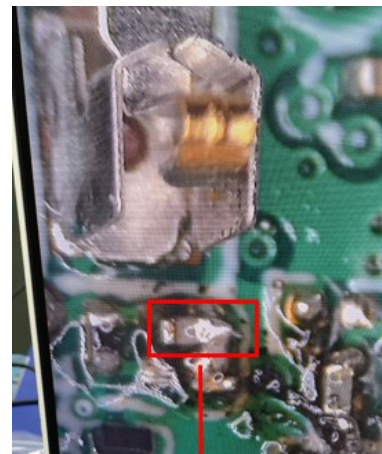
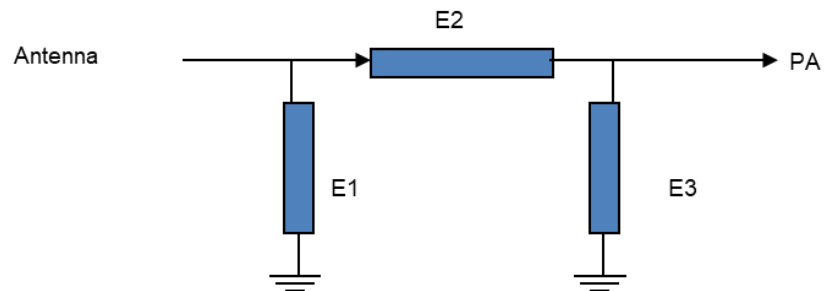


1.8pF

右耳匹配电路

R-matching circuit

Element	Value
E1	1.8pF
E2	0Ω
E3	N/A



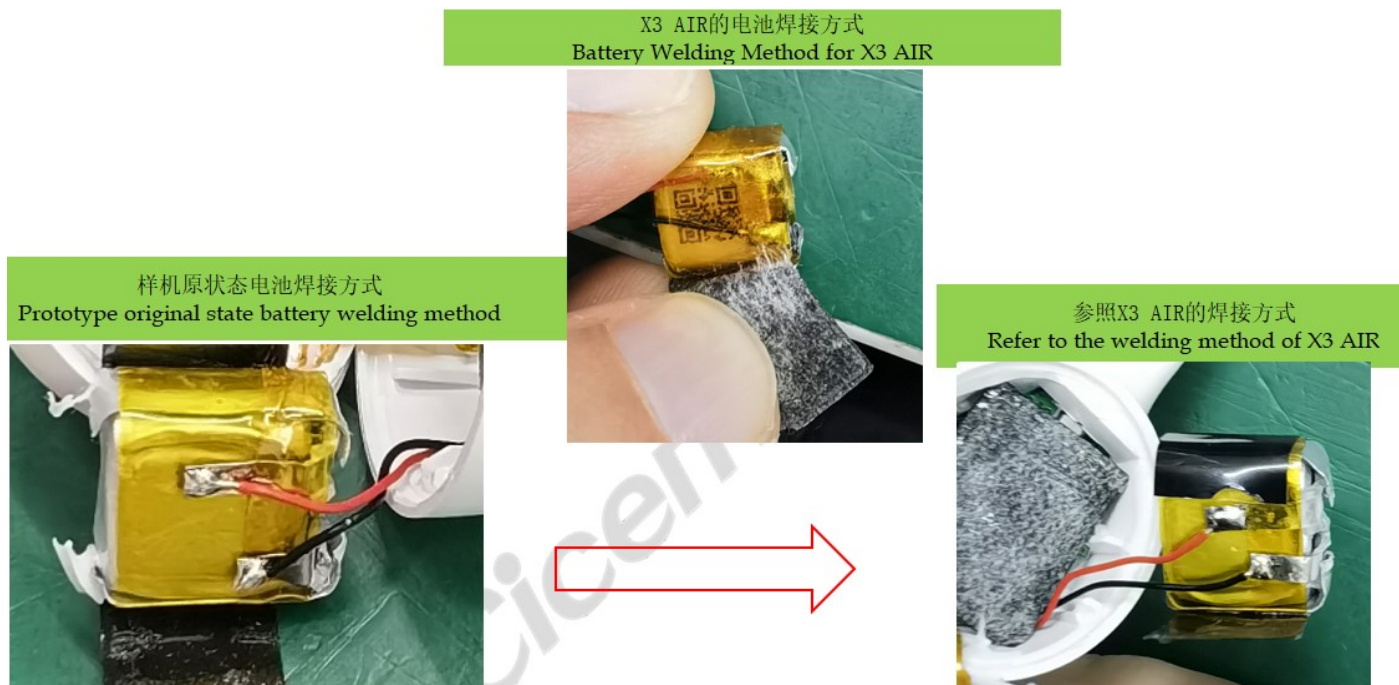
1.8pF

四：环境处理注意事项

IV: Environmental handling precautions

① 电池线焊接

① Welding of battery cables

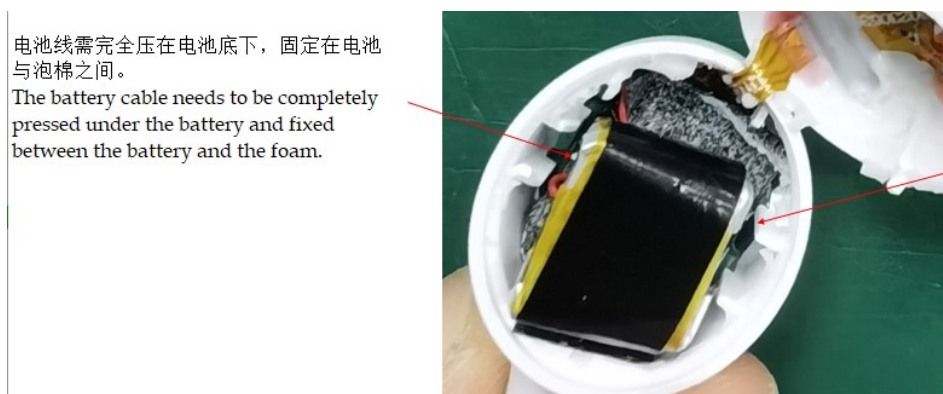


原状态电池线是逆着电池的极耳方向焊接的，需要参考 X3 项目的焊接方式，电池线顺着极耳的方向焊接。

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



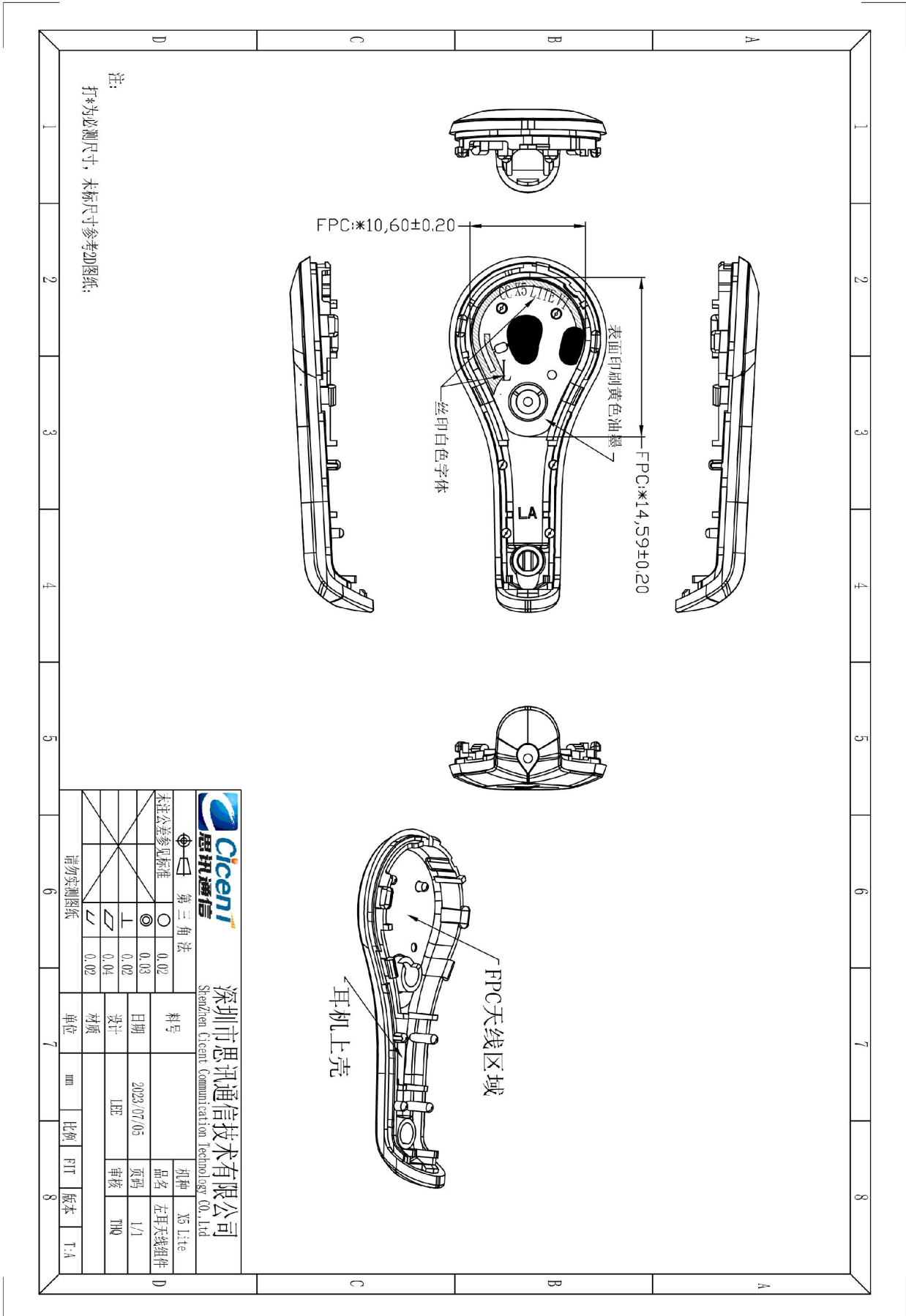
电池线需完全压在电池底下，固定在电池与泡棉之间。
The battery cable needs to be completely pressed under the battery and fixed between the battery and the foam.

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.



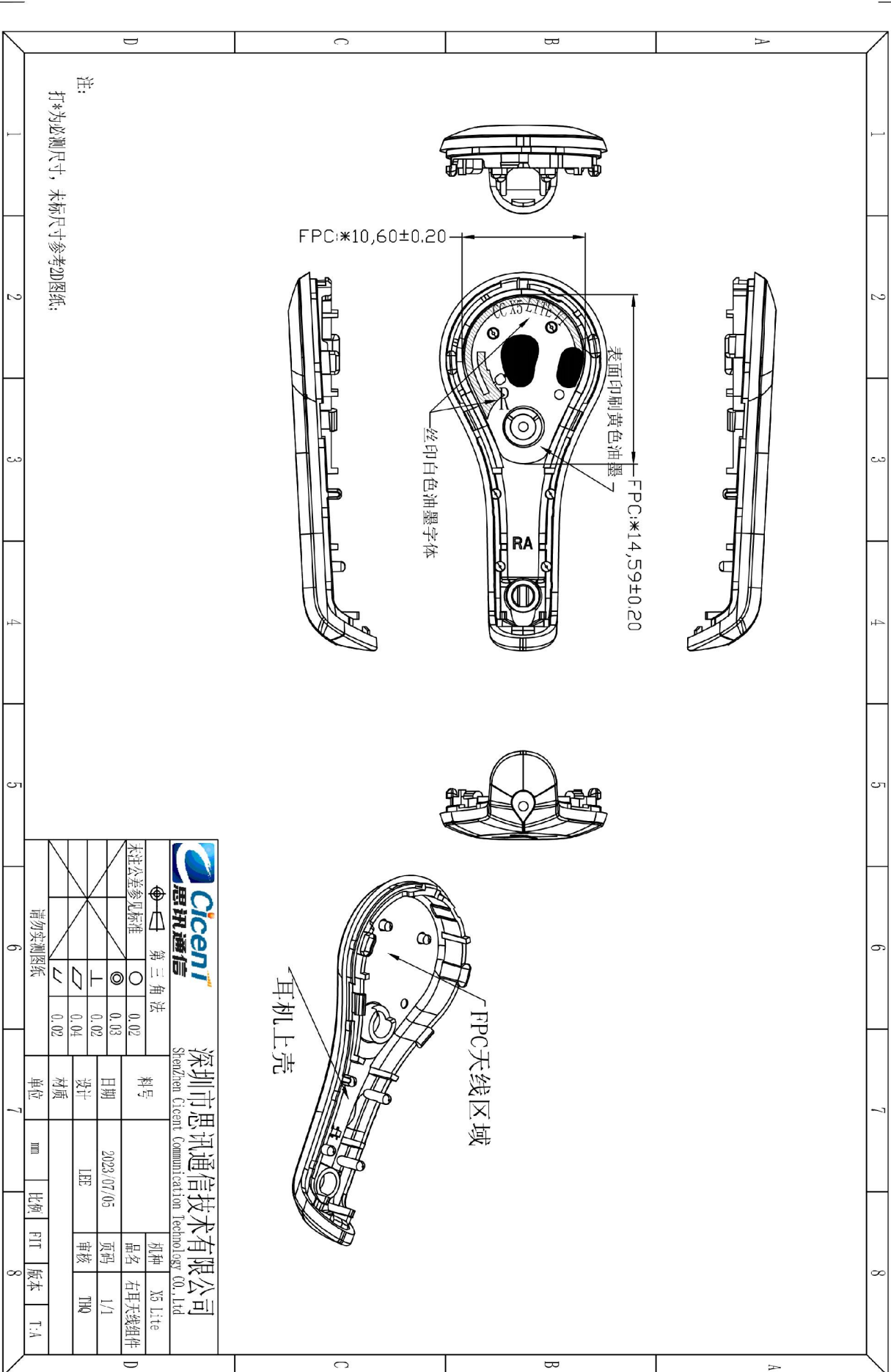
五：结构图档

V: Structure file



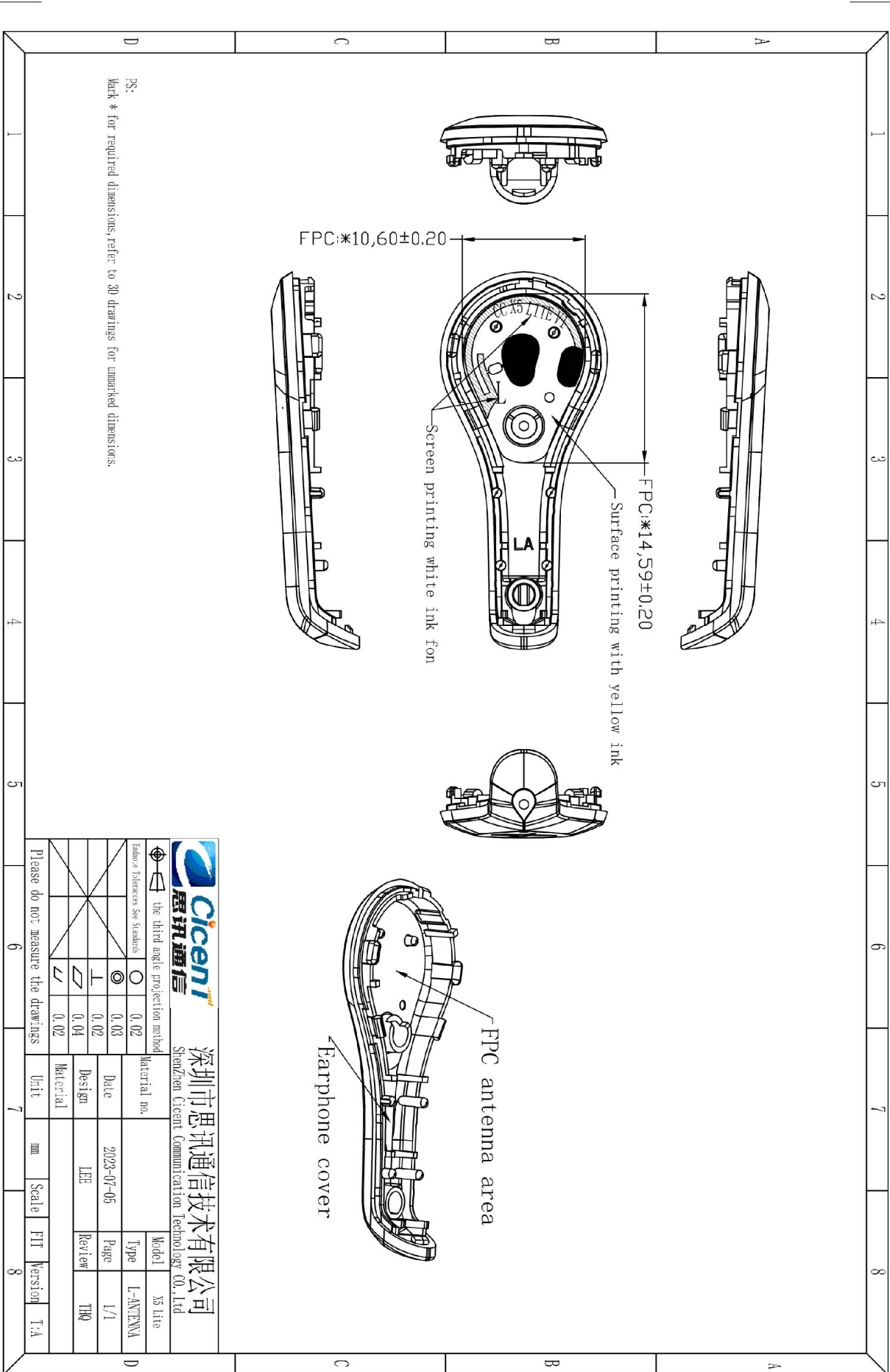
		第三角法		料号	品种	品名	X5 Lite
未注公差参见标准		0.02	0.02	日期	2023/07/05	页码	1/1
设计		0.02	0.04	设计	LEE	审核	THQ
材质		0.02	0.02	材质			
请勿实测图档		mm	比例	单位	mm	比例	版本
		mm	比例	单位	mm	比例	T: A

深圳市思讯通信技术有限公司
Shenzhen Cicent Communication Technology Co., Ltd



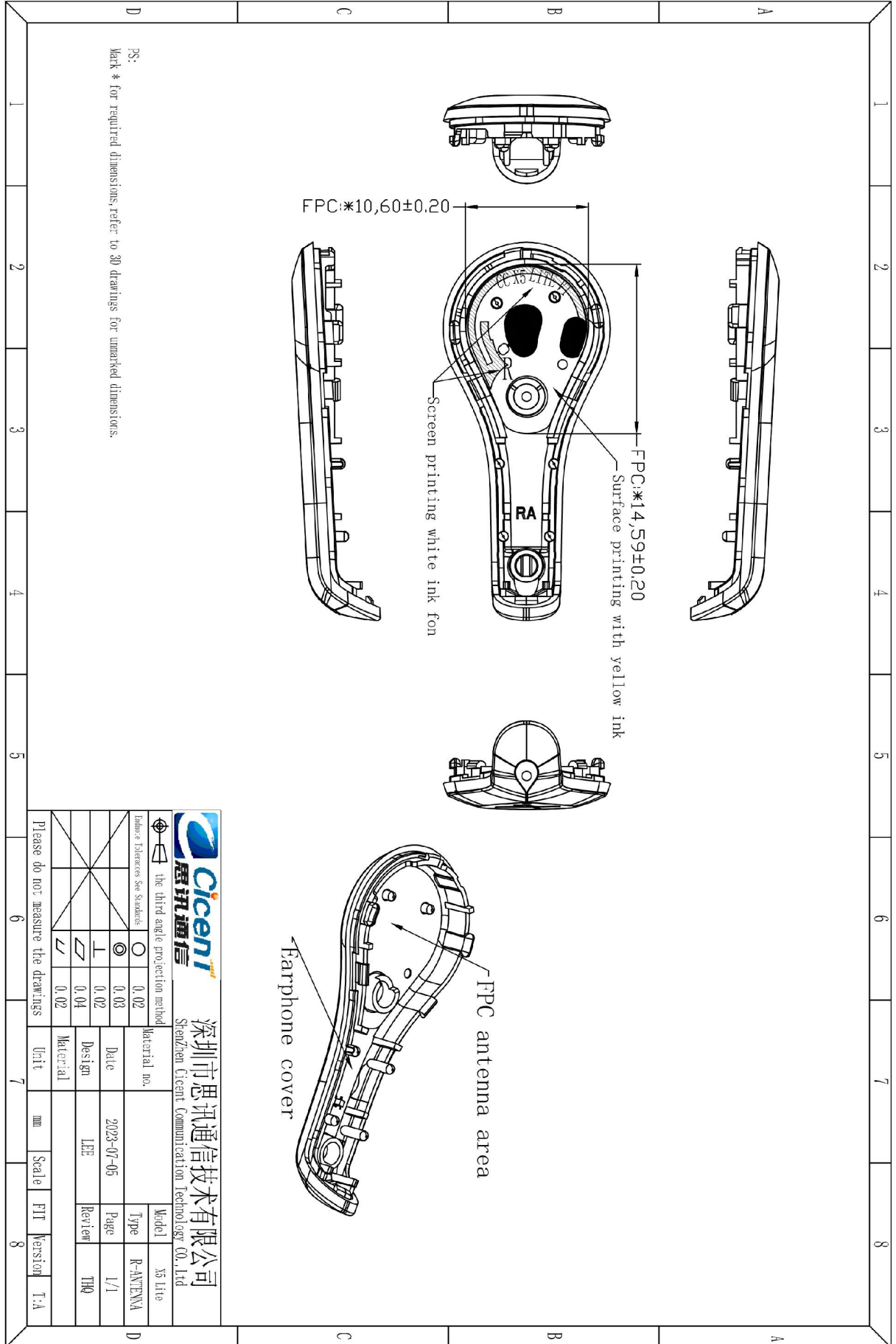
注:
打*为必测尺寸, 未标尺寸参考加图纸.

 深圳市思讯通信技术有限公司 Shenzhen Cicent Communication Technology Co., Ltd		第三角法 料号 日期 设计 材料 单位		品种 品名 页码 审核 T.MO	
未注公差参见标准 请勿实测图纸	○ 0.02 ◎ 0.03 ⊥ 0.02 ≻ 0.04 ≻ 0.02	2023/07/05 LEE	右耳天线组件 1/1 T.MO	mm	比例
				FIT	版本
				T.A	



PS:
Mark * for required dimensions, refer to 3D drawings for unmarked dimensions.

		深圳市思讯通信技术有限公司 Shenzhen Cicent Communication Technology Co., Ltd	
	the third angle projection method	Material no.	Model
	Induce Tolerances See Standards	Date	Type
		Design	Page
		Material	Review
		Unit	Version
		mm	T: A
		Scale	FIT
			Version
			T: A



		the third angle projection method	
Induce Dimensions See Standards		Material no.	
⊙	0.02	⊙	0.03
⊥	0.02	⊥	0.02
∇	0.04	∇	0.04
∇	0.02	∇	0.02
Please do not measure the drawings		Unit	mm
		Scale	1:1
		PTT	Version
		T.A	

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Shenzhen Cicent Communication Technology Co., Ltd

Model	X3 Lite
Type	R-ANTENNA
Date	2023-07-05
Page	1/1
Design	LEE
Review	THO
Material	