



样品规格书

Antenna Part Specification

客户名称: Customer name:	联网光电 Liangang Optoelectronic Technology Co.,Ltd.
项目名称: Project name:	Antman
天线类型: Material category:	FPC 天线 FPC antenna
版本: Version:	V1.0
日期: Date:	2023.03.28



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	9
II: 3D Active test report of antenna	9
三：匹配电路	10
III: Matching circuit	10
四：结构图档	12
IV: Structure file	12

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

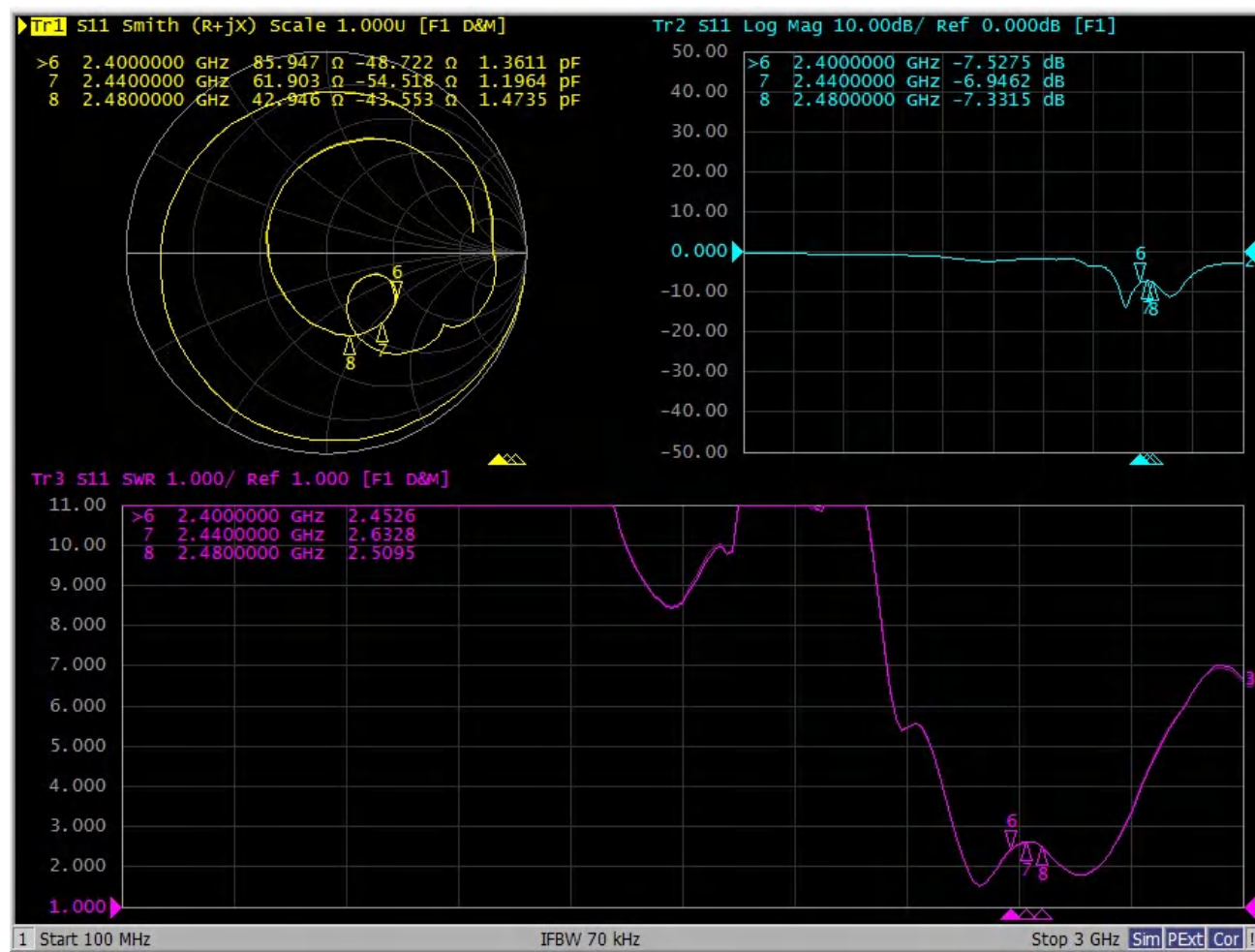
I: The report of passive data



Angilent E5071C

左耳天线 S 参数

Left antenna VSWR(S11) parameter





左耳天线无源效率与增益

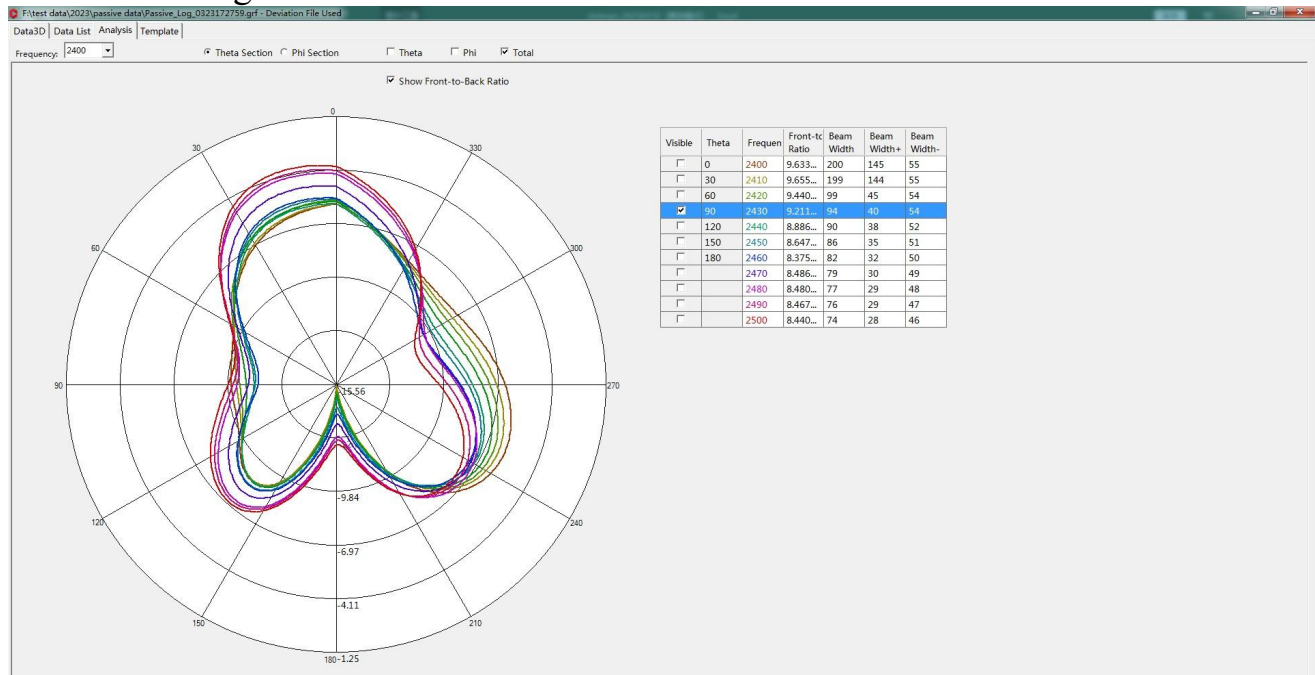
Passive efficiency and gain of left ear antenna

L			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency
2400	-1.32	-5.47	28.35
2410	-1.51	-5.57	27.75
2420	-1.72	-5.64	27.26
2430	-1.96	-5.84	26.06
2440	-2.25	-6.05	24.84
2450	-2.07	-5.99	25.17
2460	-2.19	-6.13	24.35
2470	-1.90	-5.85	25.98
2480	-1.57	-5.53	28.00
Average value	-1.83	-5.79	26.42

天线无源方向图

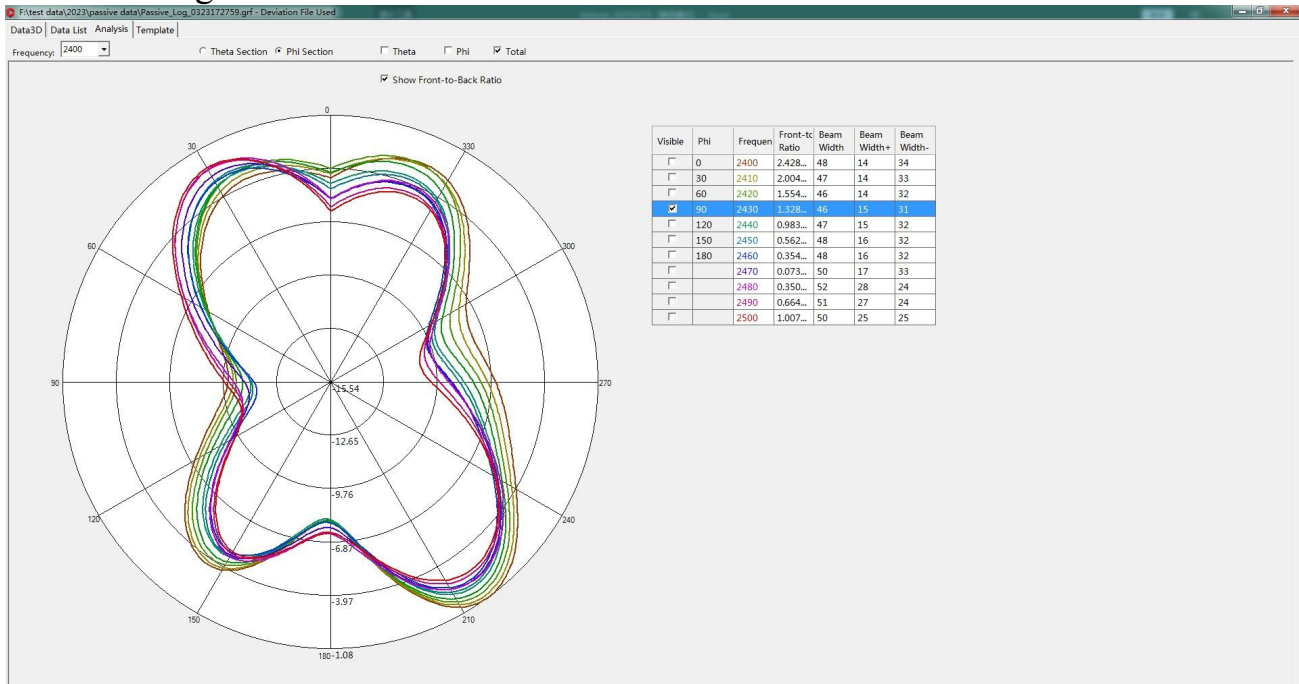
Antenna radiation pattern

Theta=90.00deg

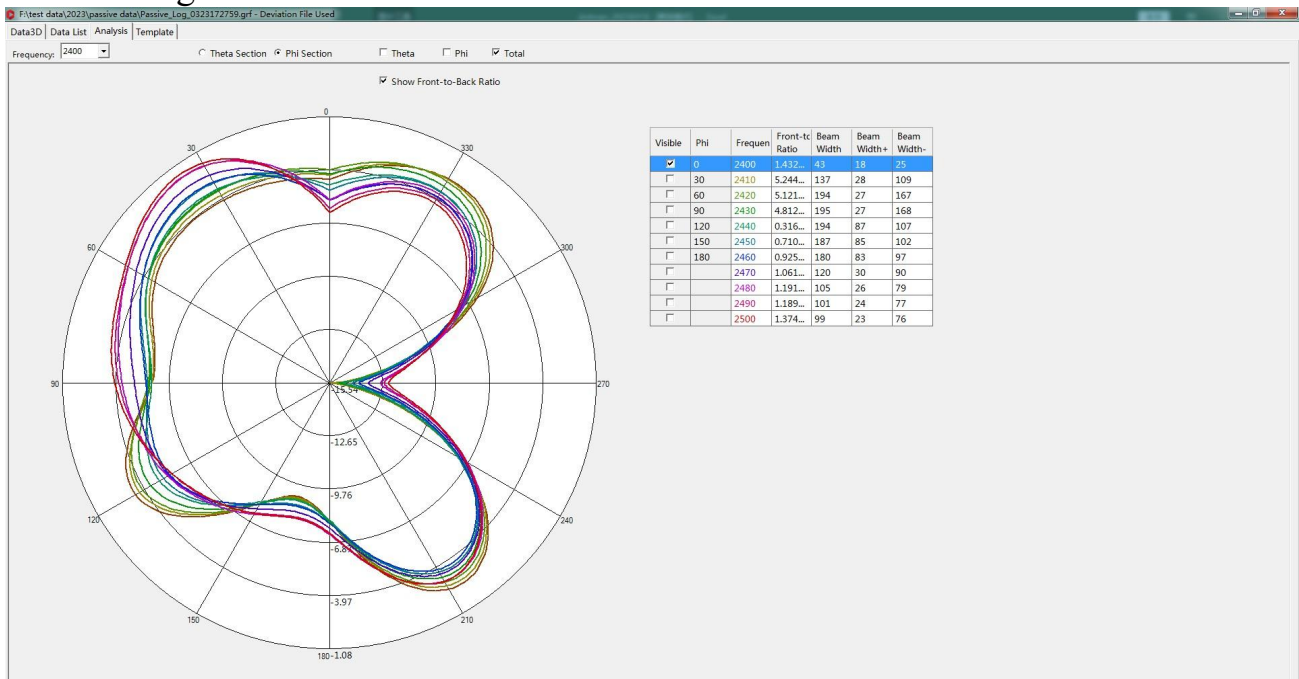




Phi=90.00deg



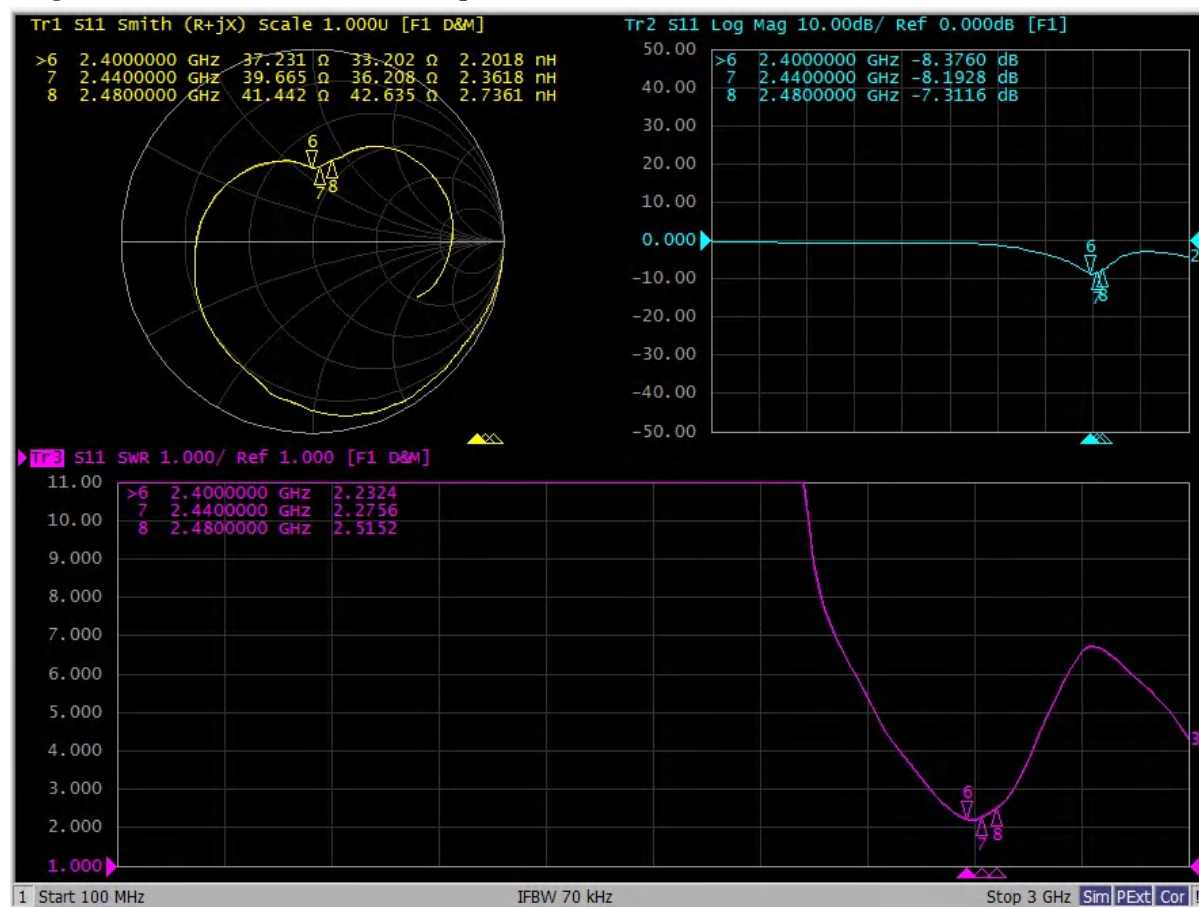
Phi=0.00deg





右耳天线 S 参数

Right antenna VSWR(S11) parameter



右耳天线无源效率与增益

Passive efficiency and gain of Right ear antenna

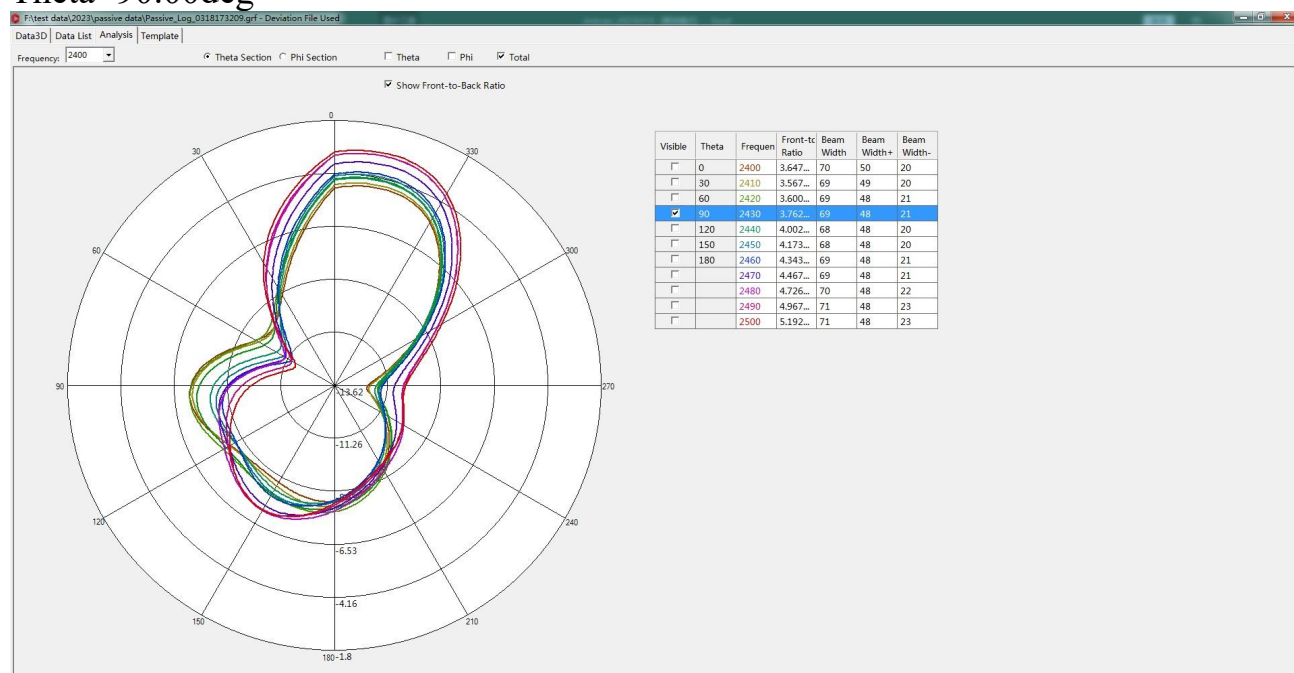
R			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency
2400	-2.65	-6.49	22.46
2410	-2.41	-6.38	23.00
2420	-2.29	-6.28	23.53
2430	-2.37	-6.42	22.79
2440	-2.29	-6.60	21.88
2450	-2.06	-6.54	22.20
2460	-2.20	-6.64	21.69
2470	-2.04	-6.39	22.95
2480	-1.80	-6.25	23.70
Average value	-2.23	-6.44	22.69



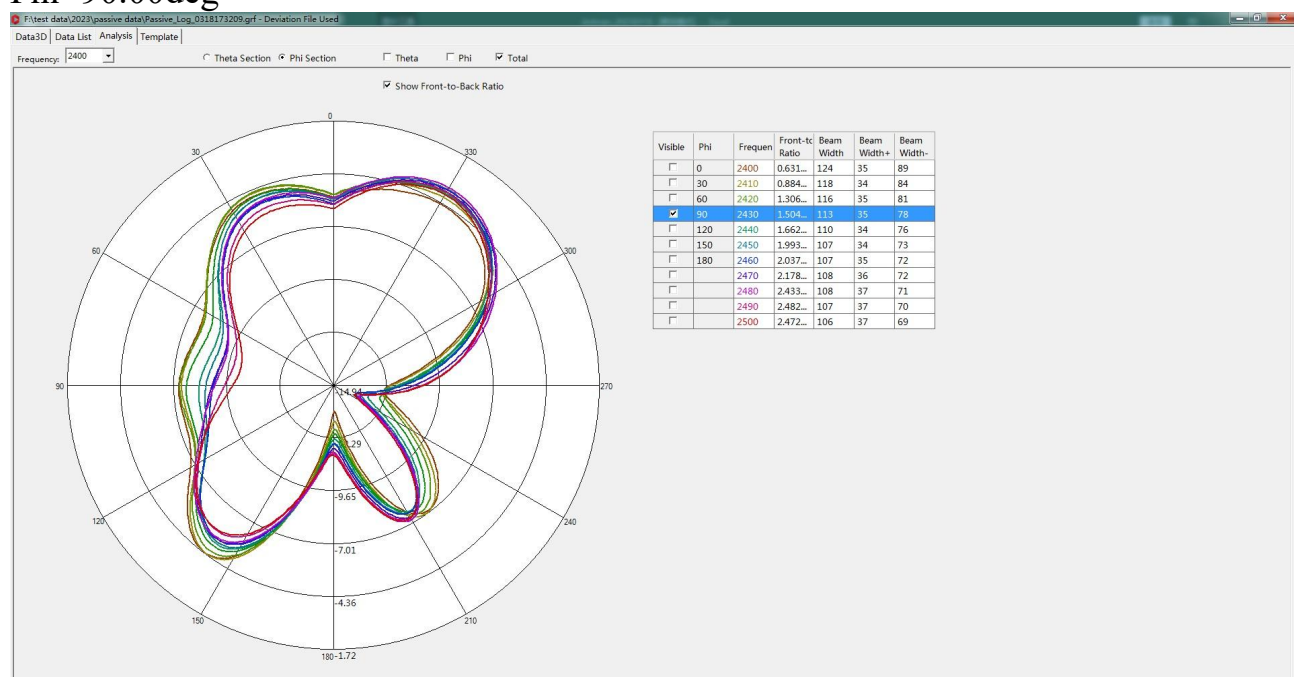
天线无源方向图

Antenna radiation pattern

Theta=90.00deg

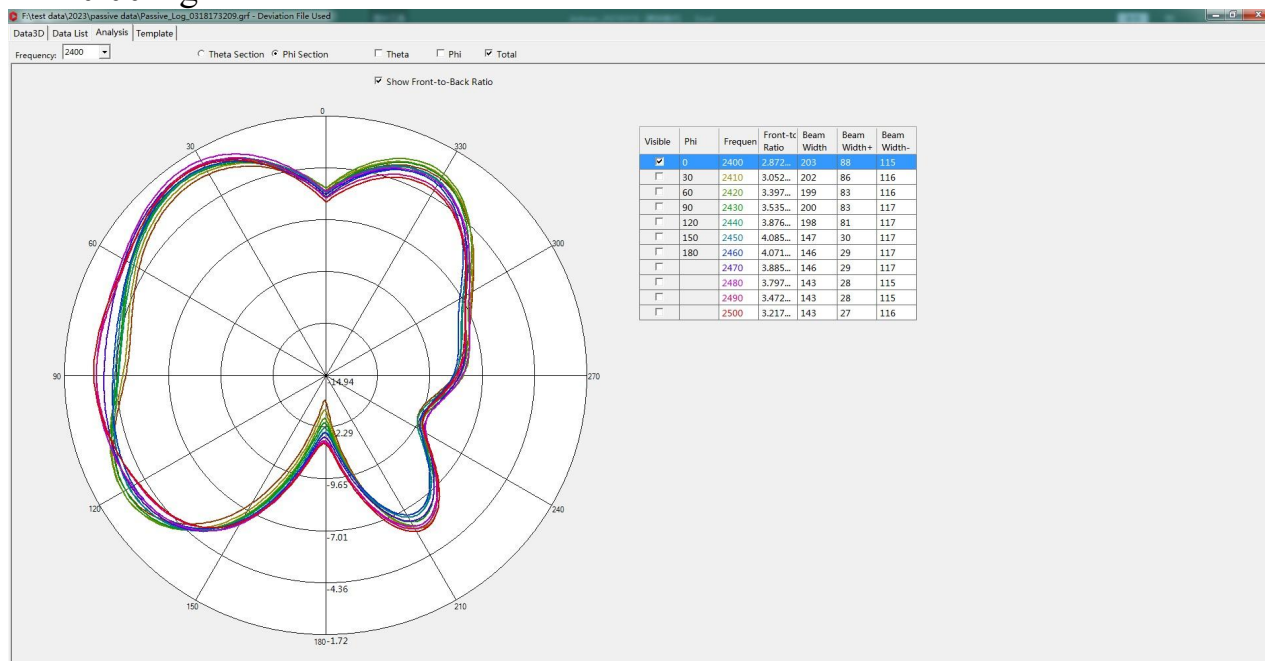


Phi=90.00deg





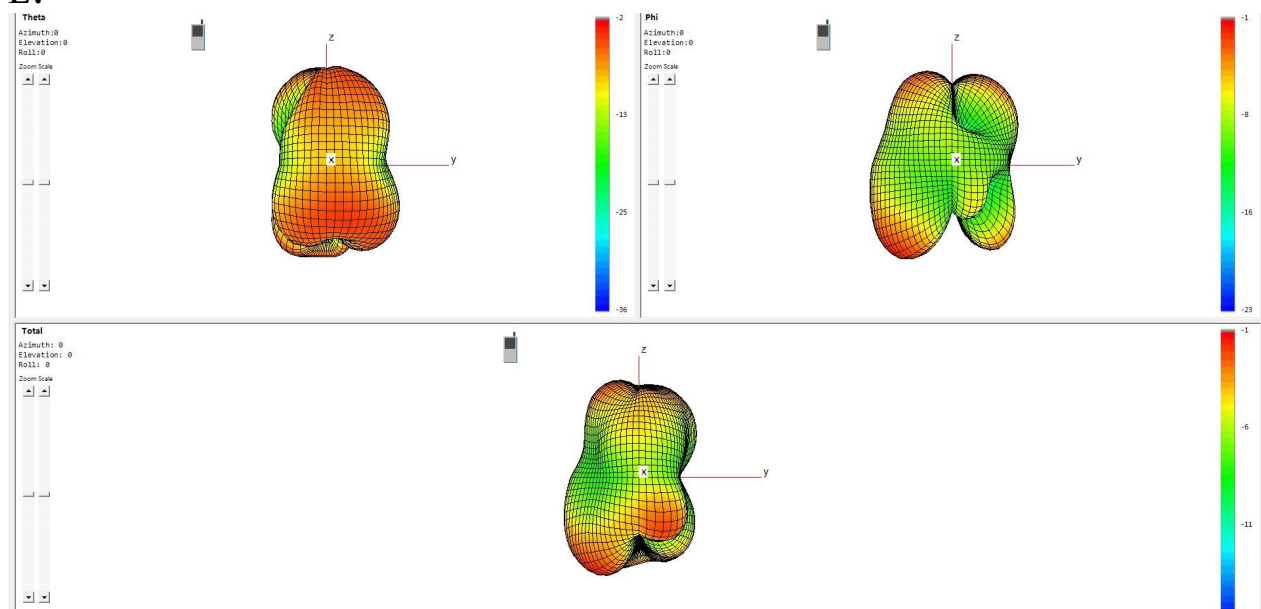
Phi=0.00deg



天线无源 3D 方向图

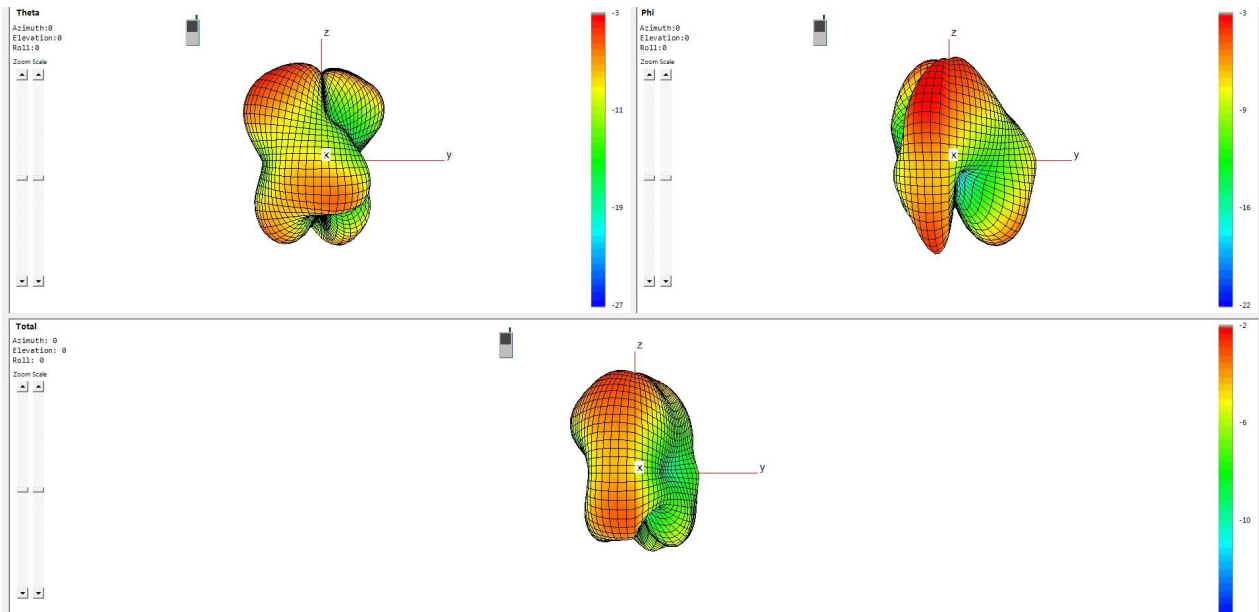
3D Antenna radiation pattern

L:





R:



二：暗室有源测试数据

II: 3D Active test report of antenna

Free/自由空间	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	8.8	-91.5
	CH 39	8.9	-90.6
	CH 78	7.8	-90.3

free/自由空间	Channel	TRP (dBm)	TIS (dBm)
R	CH 0	8.0	-90.8
	CH 39	7.9	-89.6
	CH 78	7.5	-89.6

Headform/人头耳	Channel	TRP (dBm)	TIS (dBm)
L2	CH 0	4.6	-87.6
	CH 39	5.8	-87.3
	CH 78	4.6	-87.0

Headform/人头耳	Channel	TRP (dBm)	TIS (dBm)
R	CH 0	4.8	-87.7
	CH 39	5.0	-87.0
	CH 78	4.6	-86.9



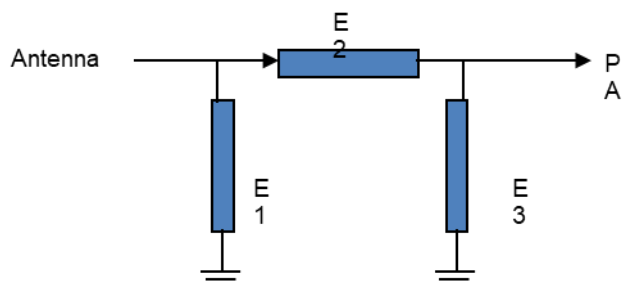
OTA Standard Chamber

三：匹配电路

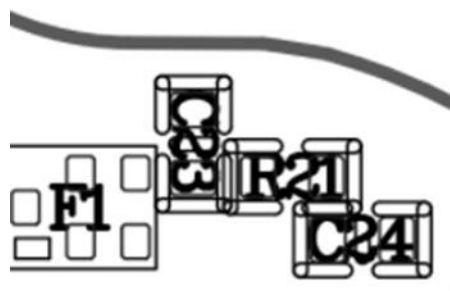
III: Matching circuit

L

Element	Value
C23(0201)	N/A
R21(0201)	1.5pF
C24(0201)	N/A



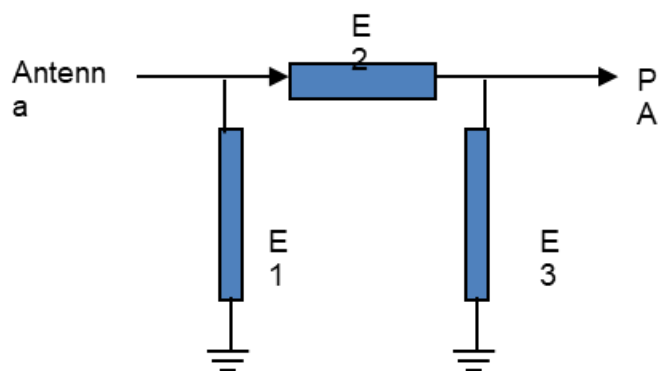
L主板位号图



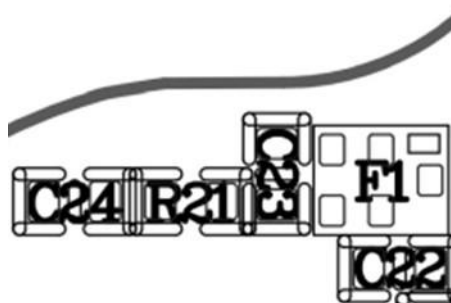


R

Element	Value
C23(0201)	N/A
R21(0201)	1.5pF
C24(0201)	N/A



R主板位号图

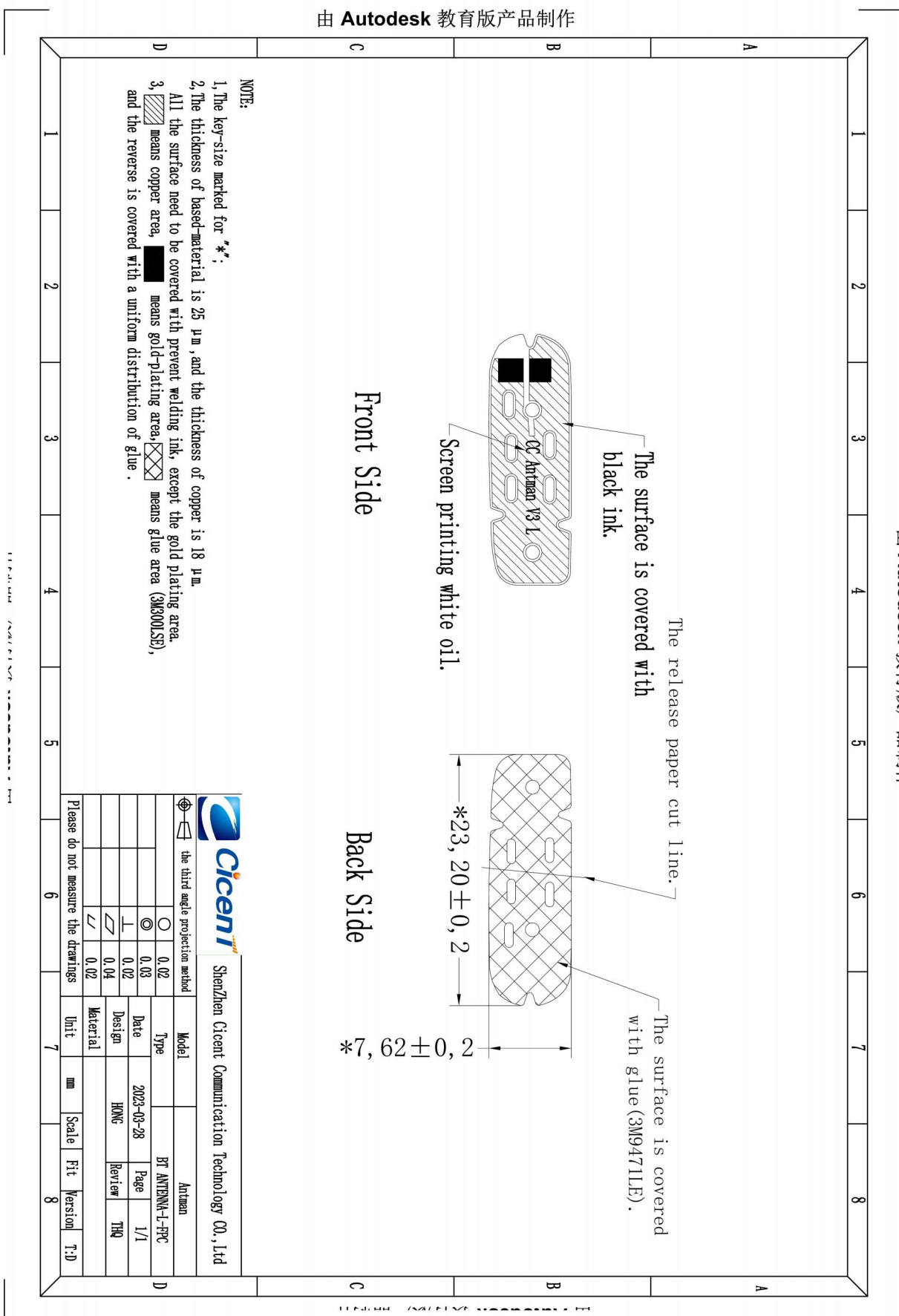


四：结构图档

IV: Structure file

由 Autodesk 教育版产品制作

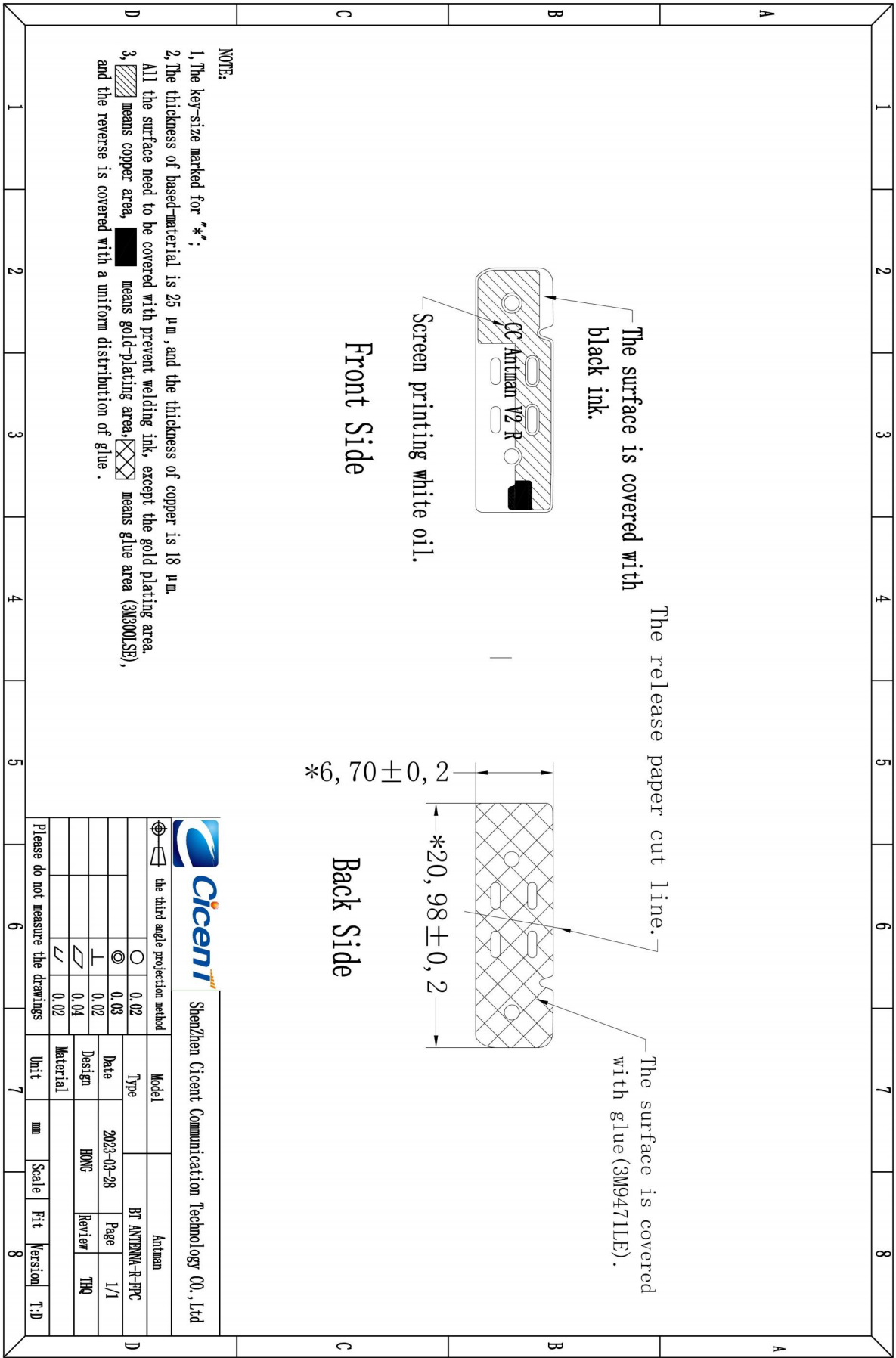
由 Autodesk 教育版产品制作





由 Autodesk 教育版产品制作

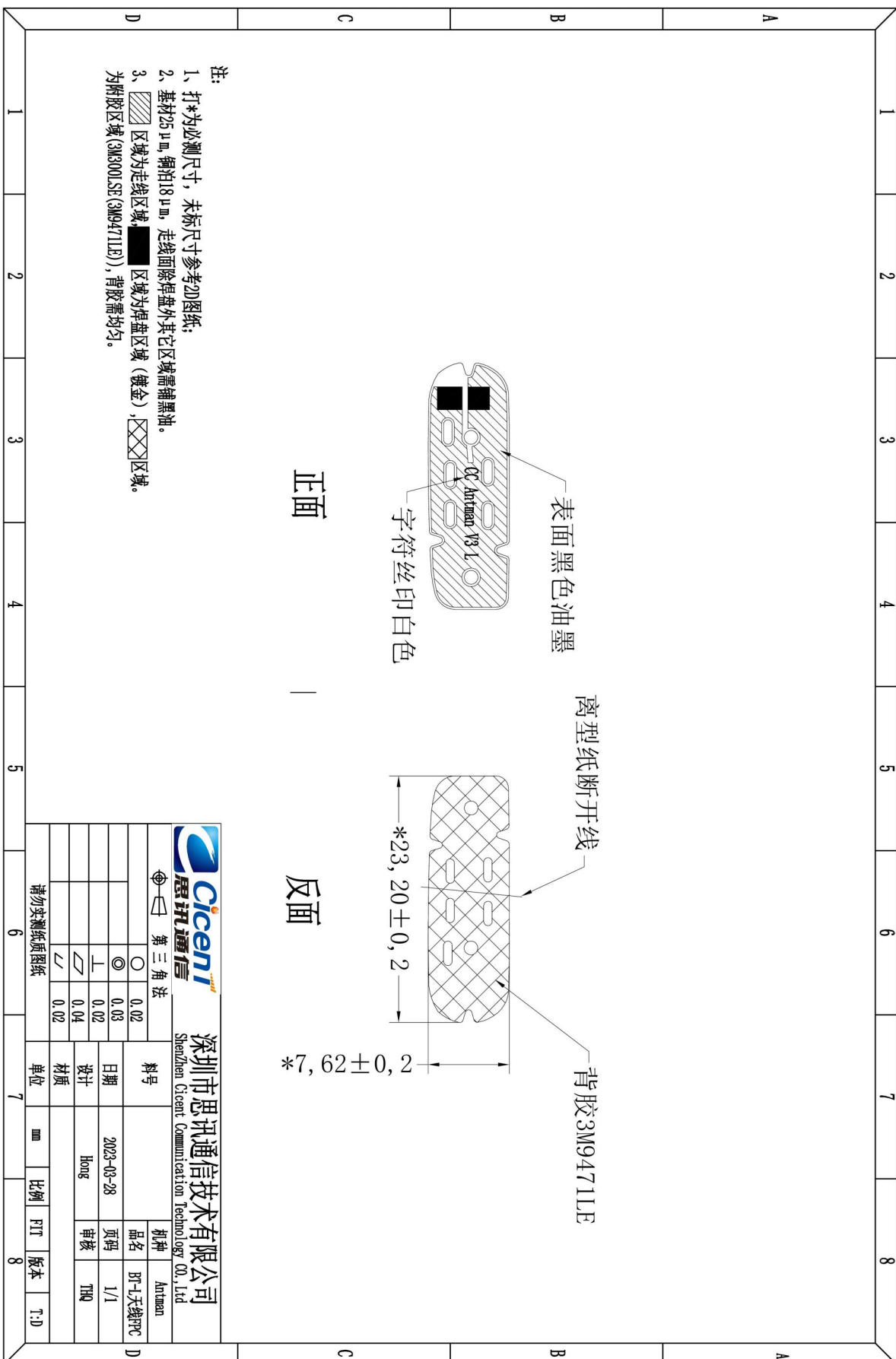
由 Autodesk 教育版产品制作





由 Autodesk 教育版产品制作

由 Autodesk 教育版产品制作





由 Autodesk 教育版产品制作

由 Autodesk 教育版产品制作

