

Shenzhen Cicent Communication Technology Co., Ltd.

SPCIFICATION FOR APPROVAL

Customer Name	Jiangxi risound Electronics Co., Ltd
Publish Date	2023. 11. 06
Model Name	BTE-673
Product NO.	41070209
Product Name	FPC antenna-L
Description	FPC antenna -L 23.70*10.70*0.10mm, Gum backing 3M9471 Gold finger gilding, Silk screen version V5;

supplier

SIGN	APPROVED BY	CHECKED BY	DRAMN
	朱煥明 洪明	唐伟	钟松枝

customer

SIGN	QE	R&D	PE

Supplier name: Shenzhen Cicent Communication Technology Co., Ltd.

Supplier Address: 505-506 .ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china

Contact person and contact information: Simon (18318811986)



Contents

I: The report of passive data	3
II: 3D Active test report of antenna.....	6
III: Matching circuit	6
IV: Structure file.....	7
V: Sample size inspection report.....	8
VI: The report of Reliability test	9
VII: Packaging method.....	10
VIII: Environmental Management Material List	11
IX: Registration of harmful substances	12

Change record			
Compile / change date	Reason for change	Changed content	Version

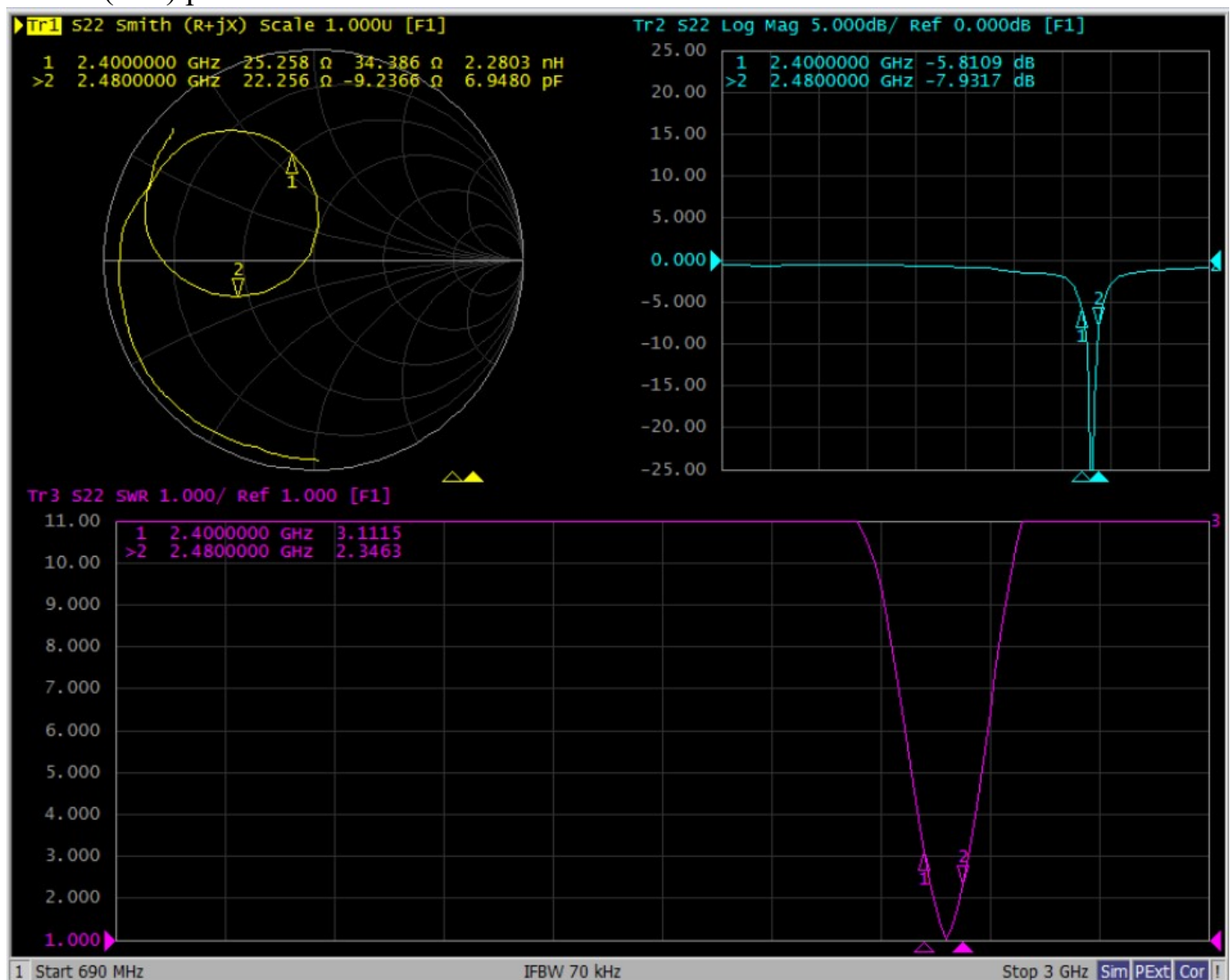


I: The report of passive data



Angilent E5071C

VSWR(S11) parameter:





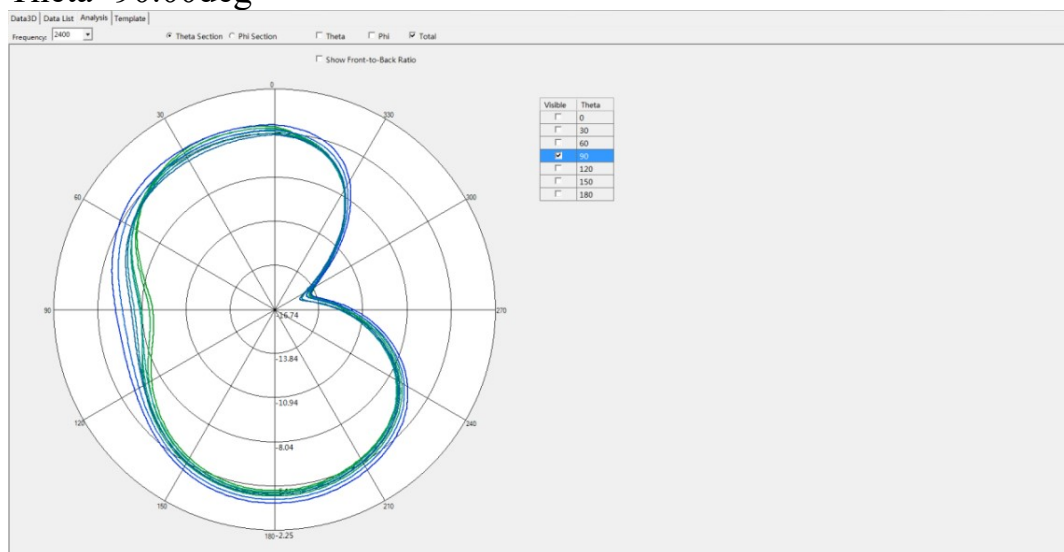
Efficiency:

2400-2480 MHz			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	21.4%	-6.70	-3.42
2410	21.7%	-6.63	-3.31
2420	22.1%	-6.55	-3.17
2430	22.2%	-6.54	-3.05
2440	22.7%	-6.44	-2.93
2450	23.0%	-6.38	-2.82
2460	22.3%	-6.52	-2.86
2470	22.2%	-6.53	-2.86
2480	22.1%	-6.56	-2.92
Average value	22.2%	-6.54	-3.04

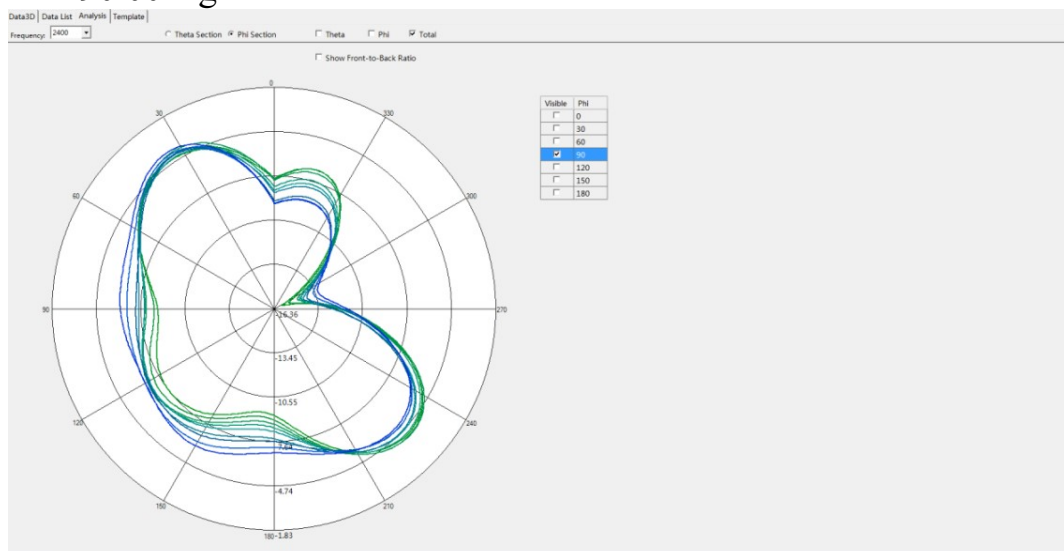


Antenna radiation pattern:

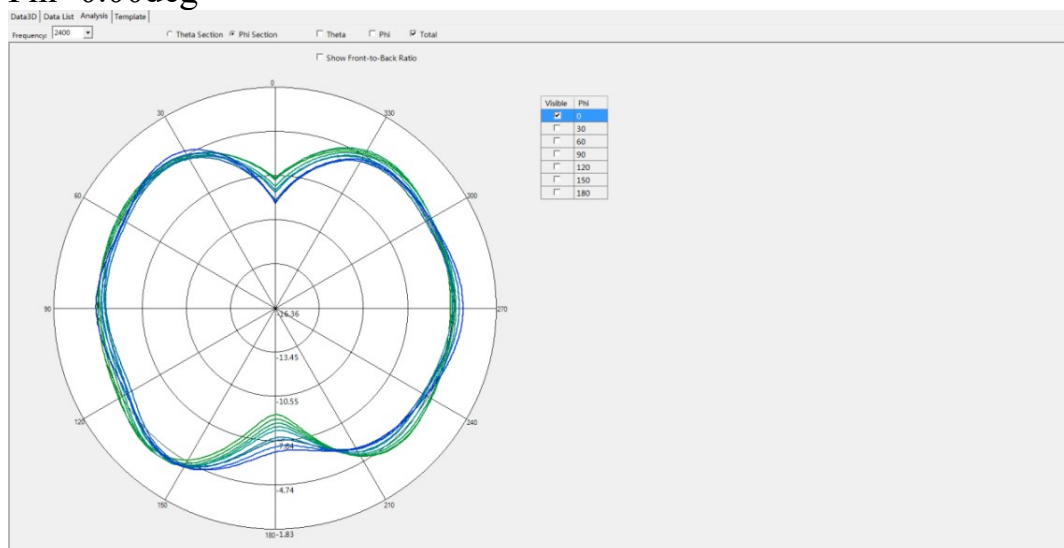
Theta=90.00deg



Phi=90.00deg



Phi=0.00deg





II: 3D Active test report of antenna

free space	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	6.0	-89.5
	CH 39	6.1	-89.8
	CH 78	5.3	-89.1

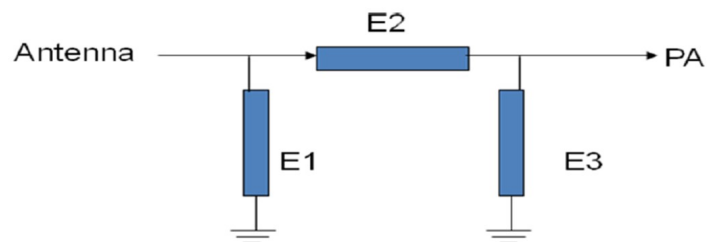
Headform	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	0.4	-84.2
	CH 39	0.5	-84.4
	CH 78	0.1	-84.4



OTA Standard Chamber

III: Matching circuit

Element	Value
E1	N/A
E2	$0\ \Omega$
E3	N/A

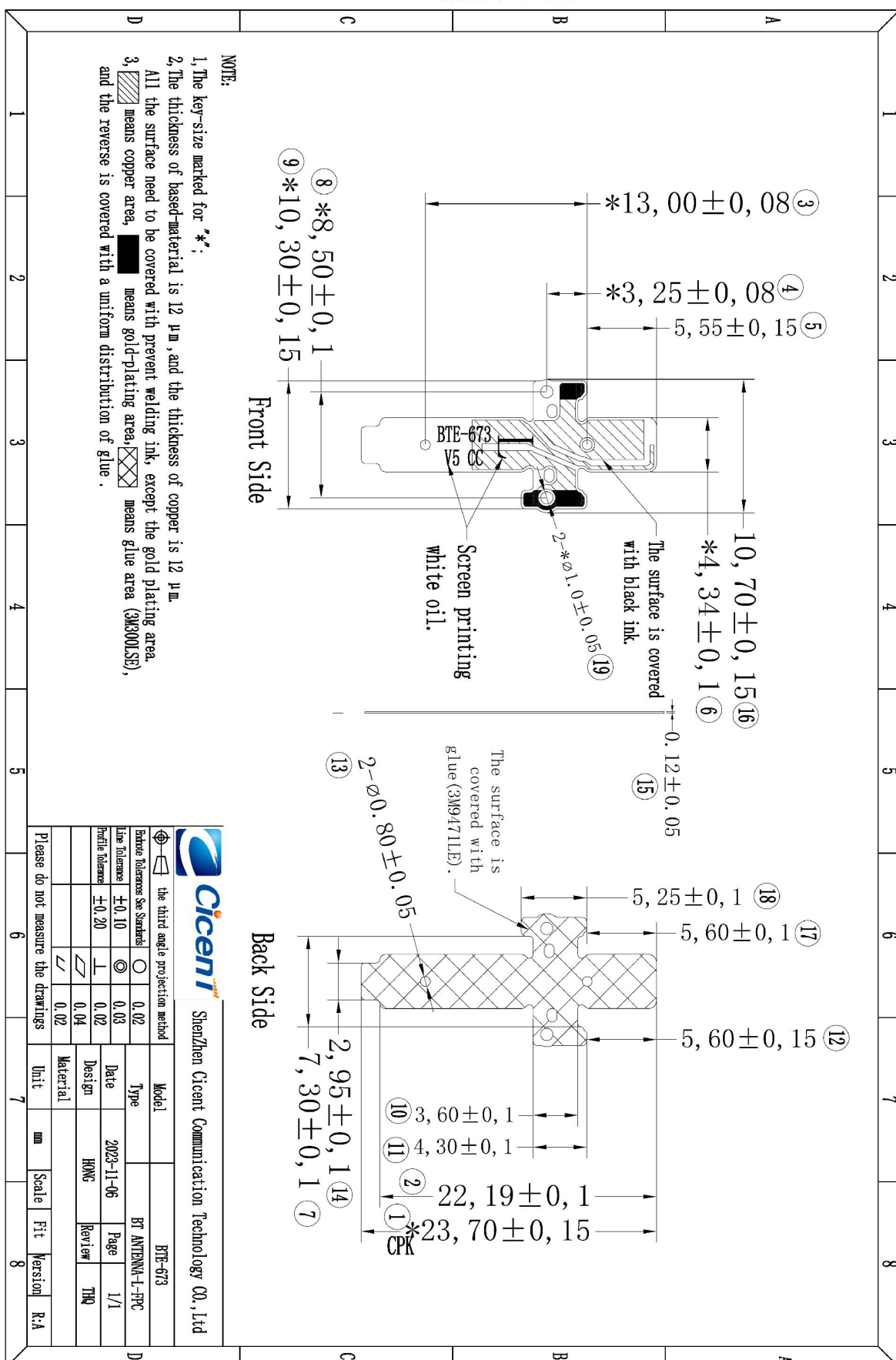




IV: Structure file

由 Autodesk 教育版产品制作

由 Autodesk 教育版产品制作





V: Sample size inspection report

Sample Size Inspection Report

The project name: BTE-673

Type: FPC

Date: 2023-09-20

The test items		Standard	Sample inspection status					Determine	Note
			1	2	3	4	5		
appearance	scratch	According to finished product inspection specification.	√	√	√	√	√	OK	
	bruised		√	√	√	√	√	OK	
	stain		√	√	√	√	√	OK	
	variant		√	√	√	√	√	OK	
	other		√	√	√	√	√	OK	
Structure size	A1	23.70±0.15	23.75	23.68	23.72	23.76	23.74	OK	L
	A2	13.00±0.08	13.05	13.02	13.03	12.98	12.99	OK	L
	A3	3.25±0.08	3.26	3.25	3.28	3.22	3.28	OK	L
	A4	4.34±0.10	4.36	4.35	4.32	4.30	4.38	OK	L
	A5	8.50±0.10	8.55	8.53	8.48	8.48	8.53	OK	L
	A6	10.30±0.15	10.33	10.32	10.36	10.28	10.26	OK	L
	A7	1.00±0.05	1.03	1.03	1.02	0.99	0.99	OK	L

The approver: Zhang Rencun

The inspectors: Xuxiaoyan

The tester: Che Shuilan



VI: The report of Reliability test

Reliability Test											
customers		Jiangxi risound Electronics Co., Ltd		The project name		BTE-673					
Item no.	Reliability test project	Test conditions and requirements	Test standard	Testing tools	Number of tests	The test results			Note		
						OK	NG	NA			
1	Salt Spray Test	In a closed environment of $35\pm 2^{\circ}\text{C}$, humidity $>85\%$, pH in the range of 6.5-7.2, with $5\% \pm 1\%$ NaCl solution for 24h continuous saline spray, remove the product with water gently rinse, placed at room temperature for 2H to check the appearance.	The surface of the product has no abnormality such as foaming, oxidation and coating peeling.	Salt spray tester	5	OK					
2	Constant Temperature and Humidity Test	Put the tested product into the constant temperature test machine, and place it for 10h at the temperature of $55\pm 2^{\circ}\text{C}$ and humidity of $93\pm 3\%$ (RH). Take out the sample and put it in room temperature for 2 hours to observe the appearance.	No warping, blistering, paint or coating peeling is allowed.	Constant temperature and humidity box	5	OK					
The tester: Xu Xiaoyan The inspectors: Zhang Rencun The approver: Zhang Rencun											



VII: Packaging method

Packaging Catalogue	Packing Diagram
Number of packages: The specific packaging quantity is adjusted according to the order quantity.	

Packaging molding effect

	
---	--

change	Change point	date	make	confirm
1				
2				
3				
Inspector: Zhang Rencun		Reviewed by: Lee		date: 2023.11.06



IX: Registration of harmful substances

有害物质登记表

Registration of harmful substances

供应商名称 Manufacturer name: Shenzhen Cicent Communication Technology Co., Ltd.										
物料代码 Material code: 41070209/41070210				填写时间 Date: 2023-09-21						
填写人员 Completed by: 陈世贵				填写部门 Department: Project Department						
电话 Tel: 15913505297				邮箱 E-mail: csg@cicent.com.cn						
有害物质清单 List of harmful substances										
产品名称 Product name	部件名称 Component name	均质材料名称 Homogeneous material name	品牌厂家 Brand manufacturer	有害物质成分 Harmful Substances	有害物质在部件中的百分比 Percentage content	Cas. No	OPPO标准 standard	有害物质作用及不可替代原因 substance's function & Irreplaceable reason	判定结论 conclusion	环保专员复核 review
FPC antenna	Gold Finger Plating Layer	Electronickel gold	金源星	nickel	98.00%	7440-02-0	0.5ug/WEEK	Gold copper interval gold coating as a base to prevent gold copper displacement and oxidation	Used in the gold plating process without direct contact with the human body, judged qualified	
FPC antenna	字符油墨 Character ink	ZSR-150	川裕	F	77.7ppm	14762-94-8	No harmful fluoride	Epoxy resin is an indispensable ink material that remains during the synthesis of the main body of the product's epoxy resin	NOPPAS	

*如果原材料成分含有有害物质，需登记在此页。
*If the ingredients contain harmful substances, you need to register on this page.