



深圳市林荣科技有限公司

样品承认书

Confirmation of products

客户名称	深圳市睿	联技术股份有限	公司		
Customer	1/1/5月1月 目	ANJX/PIX III FI	411		
项目名称	DB1	版本	Λ 1	日期	2024/1/9
Project Name	DD1	Version	A. 1	Date	2024/1/9
项目料号	02 05 01 005	客户料号		E2 0E 00	02. 0021A
Project NO.	03. 05. 01. 005	Customer NO.	,	55. 05. 00	02. 0021A
频段	868~915MHz	备注		CUD 1	G 天线
Frequency Range	808 915MHZ	Notes	-	SUD 1	6人线
设计	71	A ELL	7	01.	ż
Designed By	(LV) AFTAV	A STATE OF THE STA	5	图教	3
审核	3.1.	XXXXX			
Approved By	N. 4 210 20 0				
客户确认		N. Carlotte			
Clients' Approval					

设计单位:深圳市林荣科技有限公司

Designer: SHENZHEN 3GTX ANTENNA TECHNOLOGY CO.,LTD.

地 址:深圳市龙华区大浪街道华荣路联建工业园 A1 栋

Building 1, 3 floors, Huarong Road, Dalang Street, Longhua District, Shenzhen



Index

1. Specifications······3
2. VSWR Testing
2-1 Testing connection·····3
2-2 VSWR·····3
2-3 Testing data
2.4Antenna 3D pattern····· 4
3. Power、Sensiticity Testing4
3-1 Testing field
3-2 Testing results
3.3 Active testing5
4. Environmental treatment
5. Mechanical Dimension Drawing
6. Mechanical Dimension Testing report ······ {
7. Packaging standard



1. Specification

This report mainly provides the testing conditions of various electric and structural performance parameters for cell phone antenna ----DB1 Picture 1 shows the antenna designed by LR.



2、 VSWR Testing

2.1 Testing connection

The **Return Loss** testing devices are connected in sequence: Agilent5071C Network Analyzer →Testing Cable → Customer-providing Devices.

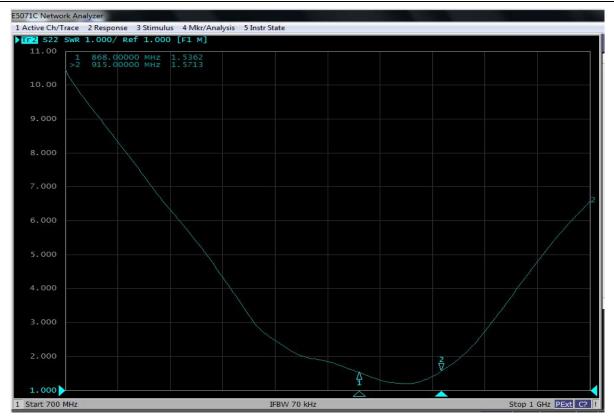
2.2 VSWR

The following table expresses the VSWR value of antenna's two edges of its frequency range. With regard to the relevant diagram of VSWR

I	DB1 VSWR	
Frequency (MHz)	868	915
VSWR	1.53	1.57

2.3 Testing data

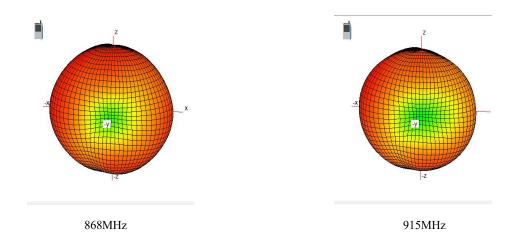




868~915MHz antenna VSWR

2.4Antenna 3D pattern

868/915MHz



3. Power, Sensiticity Testing

3.1 Testing field

LR Microwave Anechoic Chamber: testing frequency ranges from 400MHz to 6GHz and the 40cm diameter spherical quite zone, the chamber provides less than -90dB reflectivity from 400MHz—6GHz.

3.2 Testing results

The following table indicates the testing results related to Power and Sensitivity in Microwave Anechoic



Chamber, concerning the relative diagram.

3.3 Active testing.

DB1 Antenna efficiency

Freq(MHz)	Gain(db)	Efficiency(%)
868	-0.49	47. 63
873	-0.39	49. 37
878	-0. 27	50. 74
883	-0.18	51.62
888	-0.08	52. 64
893	0.15	53. 62
898	0.16	53. 74
903	0.30	53. 72
908	0.33	52. 93
913	0.33	52. 37
915	0.35	52. 13

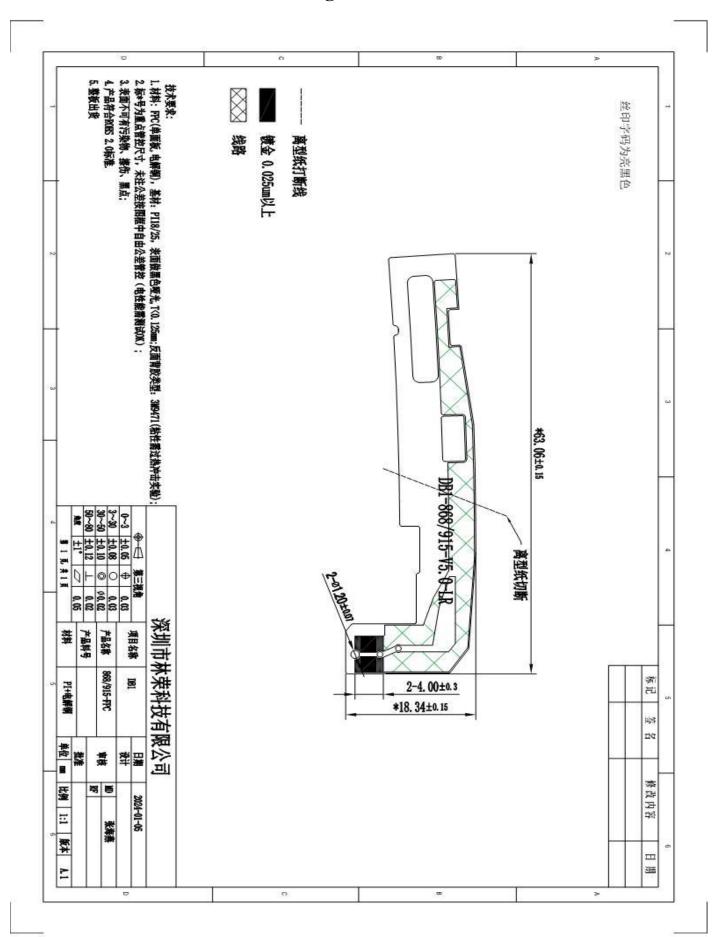
4. Environmental treatment

The environmental treatment of the whole machine is as follows

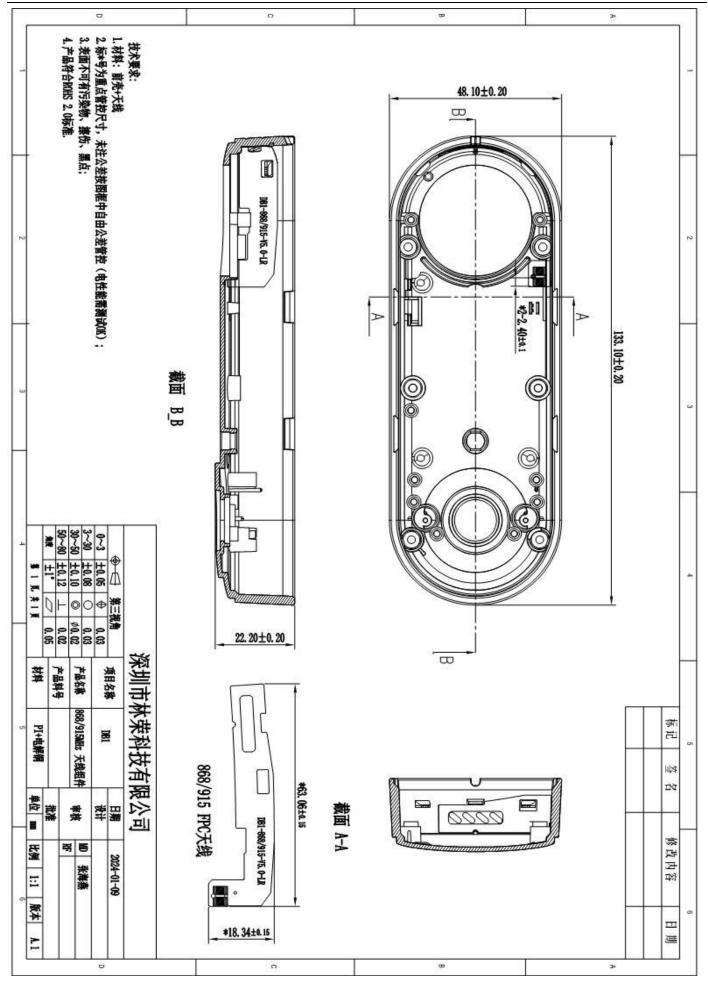




5. Mechanical Dimension Drawing







Page 7



6. Mechanical Dimension Testing report

Vei	###	444	\$ s	,		D.L. N.					(##F)						,	,	,	,	,	,	,	,	,
	林荣科技	材质牌号	本本	1		Part	Part Name	781 8	NR1 868/915—FPC干燥	\$ 11.0g	(養号)		_	-	-	•	् उ					/ WILLIMETERS TINCHES		MILLIMETERS INCHES	MILLIMETERS INCHES
						(44	零件名称)	ס זמת	00/ e10 I	PEN/AL	,	Rev(版本)	*	*		A.1	A.1	A.1	A.1	A.1	A.1	A.1	A.1	A.1	A.1
	差		2024-1-10	1-10		MEA	SURED	DIMENS	MEASURED DIMENSION(实搬尺寸)	R 1)	% TOLERANCE USED (公差使用百分比)	NCE USE	0	-	0	0				DISPOSITION				DISPOSITION	
DIM. #	DIMENSION	DRAWING ZONE	+10L	٠١٥٢.	NOTE	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 1 SAMPLE 2 SAMPLE 3 SAMPLE 4 SAMPLE 5	SAMPLE 5	UPPER	LOWER		0%-25%	9%-25% 25%-50%	1250m/250m/2	25%-50%	25%-50% 50%-75%	25%-50% 50%-75% 75%-100%	25%-50% 50%-75% 75%-100%	25%-50% 50%-75% 75%-100% 100%+ Re-Measure Accept	25%-50% 50%-75% 75%-100% 100%+ Re-Measure Accept Fix Tool	25%-50% 50%-75% 75%-100% 100%+ Re-Measure Accept	25%-50% 50%-75% 75%-100% 100%+ Re-Measure Accept Fix Tool Accept With Variance	25%-50% 50%-75% 75%-100% 100%+ Re-Measure Accept Fix Tool Accept With Variance
-	133.10		0.20	(0.20)		133.04	133.06	133.06	133.11	133.03	5%	-35%	25.4%	×	7700	7700	7700	7700	7700	7700	7700	7700	7700	× 133.10	×
2	22.20		0.20	(0.20)		22.20	22.18	22.21	22.20	22.19	5%	-10%	. * 0		×									× 22.20	×
ω	48.10		0.20	(0.20)	- 2	48.10	48.11	48.09	48.08	48.10	5%	-10%	10000		*	- 0	- 0	- 0	- 0	- 0	- 0	- 0	- 0	× 48.10	×
4	18.34		0.15	(0.15)		18.34	18.35	18.38	18.32	18.30	27%	-27%	•	•	×									× 18.34	*
5	63.06		0.15	(0.15)		63.08	63.11	63.07	63.09	63.03	33%	-20%	38.00		×									× 63.06	×
6	以下空白																								
7					2 - 3				9 9				, .												
8					2 2																				
9																									
10					2																				
1		1			-H					ik				- 17 - 17		100 100 100 100 100 100 100 100 100 100	27 27 27 27	27 27 27 27 27 27						40	5
12					20		8		00								30.					20		200	
ಚ																									

1. DIMENSION,+TOL,-TOL,SAMPLE1, SAMPLE2, SAMPLE3 2. 注意1中描述的内容输入时,请:

a. 在WTOLERANCEUSED(公差使用百分比比)中无论是UPPER还是LOWER>100%, 须:
(1)检查输入数据是否输入错误;(2)测量数据是否操作有误或是仪器测量不准确;(3)测量时间是否不适宜;(4)排除了(1)(2)(3)外, 仍然>100%, 请设计师对每个尺寸的后面作出选择即从"Re-measure, Accepet, Re Tool, Accept Virance"中选一, 若是选Accept with virance. 必须完成后面的Dimension, +TOL, -TOL;
b. DIMENSION栏中的即尺寸前一栏中的DIM, #必须与图面上的一数;同时注意, 在作Cpk的尺寸的尺寸编号与FAI全尺寸测量报告中的尺寸的编号必须是相同的, 且Cpk尺寸必须被用符号标注, 此标注导必须表示

的意思是指该尺寸为重点管控尺寸,要做Cpk! c.测量工具代号Weasure No.; A=callipers(0.00) B=micrometer(0.000) C=Pin Guage (0.000) D=High Guage (0.000) E=CMM (0.000) F=Plug Guage (0.00) G=R Guage (0.0) I=Deep Guage

Page 8



7. Packaging standard

包装说明: 具体包装数量以实物为准, 图片只显示包装的方式, 并非此项目实物。

Packaging Description: the specific packaging quantity is subject to the physical object. The picture only shows the way of packaging, not the physical object of the project



天线用 PE 袋包装

The top cover board, with PE film packaging



防潮防水 PET 袋封装,放于纸箱或胶筐内 Moistureproof waterproof PET bag packaging,



纸箱用胶带封口

Carton sealing with duct tape



包装箱整箱外观()

Put in the cartons

Cases appearance