

样品承认书 Confirmation of products

| 客户名称 Customer | 深圳 | 市汇泰科电子有限 | 县公司 | | | |
|-------------------|----------------------------|----------|------|-----------------|------------|--|
| 项目名称 | DCOOF | 版本 | A 1 | 日期 | 2020 02 10 | |
| Project Name | RC905 | Version | A. 1 | Date | 2020-08-10 | |
| 项目料号 | | 客户料号 | | | | |
| Drajaat NO | 11.01.01.0003 | Customer | 4 | 42.01.RC905-001 | | |
| Project NO. | | NO. | | | | |
| 频段 | 2400 [~] 2500 MHz | 备注 | | BI E&A | NT+天线 | |
| Frequency Range | 2400 2300 MHZ | Notes | | DLL&F | INT · 八段 | |
| 设计 | | | | | | |
| Designed By | | | | | | |
| 审核 | | | | | | |
| Approved By | | | | | | |
| 客户确认 | | | | | | |
| Clients' Approval | | | | | | |

公司名称:深圳市林荣科技有限公司 Designer: SHENZHEN LINRONG TECHNOLOGY CO.,LTD

地址: 深圳市龙华区大浪街道华荣路联建工业园1栋3楼

ADD: Floor 3, building 1, LianJian Industrial Park, Huarong Road, Dalang street, Longhua District, Shenzhen

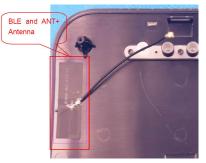


Index

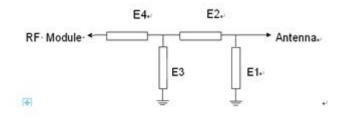


1. Specification

This report mainly provides the testing conditions of various electric and structural performance parameters for cell phone antenna ----RC905 Picture 1 shows the antenna designed by LR.



2 、 Matching circuit diagram



| Element | Value |
|----------|-------|
| E1(0201) | |
| E2(0201) | o欧姆 |
| E3(0201) | |
| E4(0201) | |

3、 VSWR Testing

3.1 Testing connection

The VSWR testing devices are connected in sequence: Agilent5071C Network Analyzer \rightarrow Testing Cable \rightarrow Customer-providing Devices.

3.2 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

| | RC905 | BLE VSWR | |
|--------------------|--------------|----------|------|
| Frequency (MHz) | 2400 | 2450 | 2500 |
| VSWR | 1.36 | 1.1 | 1.26 |



3.3 Testing data



RC905 antenna VSWR

4. Test the efficiency of the antenna Testing

4.1 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.

4.2 Testing results

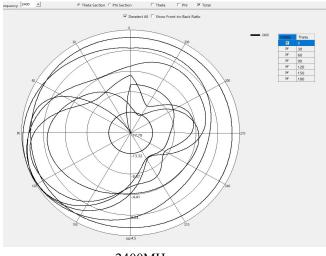
The following table indicates the testing results related to Power and Sensitivity in Microwave Anechoic Chamber, concerning the relative diagram.

| | 2.4G BLE 天 | 线 |
|------|------------|------------|
| Freq | Gain | Efficiency |
| 2400 | 4.41 | 67.79% |
| 2410 | 4.58 | 70.44% |
| 2420 | 4.33 | 68.37% |
| 2430 | 4.52 | 71.48% |
| 2440 | 4.46 | 69.72% |
| 2450 | 4.60 | 72.66% |
| 2460 | 4.42 | 72.15% |
| 2470 | 4.47 | 74.60% |
| 2480 | 4.68 | 78.53% |
| 2490 | 4.63 | 78.15% |
| 2500 | 4.47 | 74.38% |
| 2510 | 4.47 | 73.85% |

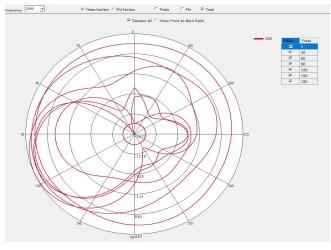


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| 2520 | 4.43 | 72.26% |
|------|------|--------|
| 2530 | 4.45 | 68.29% |
| 2540 | 4.57 | 68.25% |
| 2550 | 4.65 | 70.89% |
| 2560 | 4.50 | 68.34% |
| 2570 | 4.57 | 65.71% |
| 2580 | 4.25 | 66.27% |
| 2590 | 4.26 | 69.00% |
| 2600 | 4.30 | 68.42% |



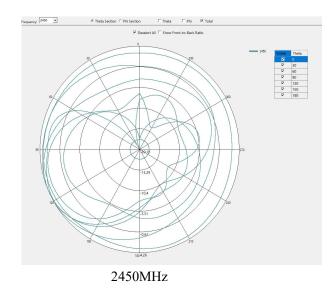






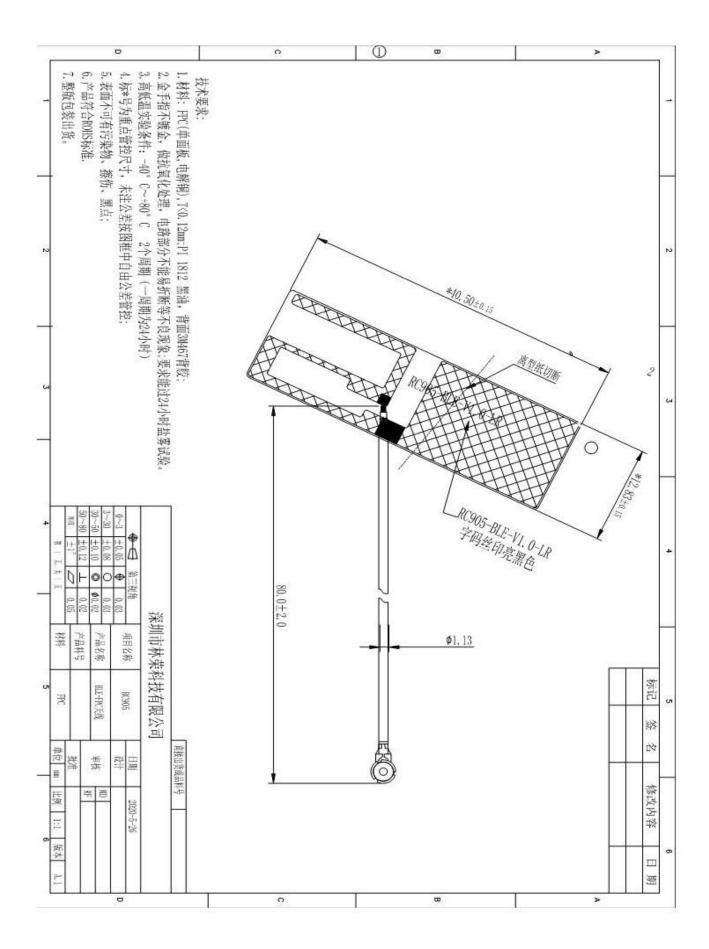
5、Environmental treatment

Original machine environment





6、 Mechanical Dimension Drawing





7. Mechanical Dimension Testing report

| Vendor(供应商) | 共应商) | 材质 | 材质名称 | FPC | _ | Part N | Part NO(料号) | 11 | 11.01.01.0003 | 003 | Tool Number | Cav. Number(次数) | ber() | | | | | F | Unit(单位) | 3 | | Quality(# | 山质签字) | 5 |
|-------------|--------------|--------------|-----------|--------|------|----------|-------------|----------|--|----------|------------------|-------------------------------|--------|---------|---------|----------|-------|-------------|----------|----------|-------------------------|-----------|---------------------|-------|
| 林荣科技 | 拔 | 材质 | 材质牌号 | 1 | | Part | Part Name | ł | | - | (横号) | | - | | _ | | | | | | :011 | A | 2 | A |
| - | | | | | | (零件 | (零件名称) | PTV | FFU 2、W DLE天政 | | - | Rev(版本) | | A.1 | | | Ę | 5 | E L | | Ē | it | 3 | |
| 日期 | - | | 2020-8-10 | -8-10 | | MEA | SURED | DIMENS | MEASURED DIMENSION(实現尺寸) | IR4) | % TOLER/ (公邀使 | % TOLERANCE USED (公差使用百分比) | | | | ₽ | SPO | DISPOSITION | ž | | | ACCEPT | ACCEPTABLE VARIANCE | 5 |
| DIM.# | DIMENSION | DRAWING ZONE | +TOL | + TOL | NOTE | SAMPLE † | SAMPLE 2 | SAMPLE 3 | SAMPLE 1 SAMPLE 2 SAMPLE 3 SAMPLE 4 SAMPLE 5 | SAMPLE S | UPPER | LOWER | 0%-25% | 25%-50% | 50%-75% | 75%-109% | 100%+ | Re-Measure | Accept | Fix Tool | Accept With Variance | DIMENSION | +TOL | |
| 1 40 | 40.50 | | 0.15 | (0.15) | | 40.56 | 40.60 | 40.61 | 40.58 | 40.60 | 73% | 0% | × | | × | | | | | | | 40.50 | 40.61 | 40.56 |
| 2 12 | 12.83 | | 0.15 | (0.15) | | 12.90 | 12.91 | 12.83 | 12.90 | 12.80 | 53% | -20% | | × | × | | | | _ | | | 12.83 | 12.91 | 12.80 |
| 3 80 | 80.00 | | 2.00 | (2.00) | | 81.00 | 80.00 | 80.00 | 81.00 | 81.00 | 50% | 0% | | × | × | | | | | | | 80.00 | 81.00 | 80.00 |
| 4 IJT | 以下空白 | | | | | | | | | 0. I | | | | | | | i: | | | | | | | 1 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | - |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| # | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | - | _ | _ | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | |

a. 在STOLERANCEUSED(公差使用百分比比)中无论是UPPEN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,65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"中述一,若是选Accept with virance,必须完成后面的Dimension,+T04,-T04;;
b. DIMENSION栏中的甲尺寸前一栏中的DIM,#必须与图面上的一致;同时注意,在作Cpk的尺寸的尺寸缩号与FA1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,此标注号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

(0,000)



8. Environmental test report



深圳市林荣科技有限公司

SHENZHEN LINRONG TECHNOLOGY CO., LTD

高低温试验测试报告

High and low temperature test report

| 报告编号:LRQA: | 202008100009 | | | | | 日期:2020 | 0年8月10日 |
|--------------------------------|--|----------------------------------|-----------------------|--|------------------------------------|---|----------|
| 产品名称 Product name | FPC 2.4G BLE天线 | 送检部门 Inspection department | 研发 | 料号 Serial № | 11. 01. 01. 0003 | 试样数量Qty | 2PCS |
| 试验日期 | 8月8日 | 试验时间 | 48H | 开始START | 当日9:00 | 客户Customer | 汇泰科 |
| Date | одоц | Test time | 460 | 结束OVER | 8月10日9:00 | 供应商Supplier | 7 |
| 测试仪器 instrument | 可程式恒 | 温恒湿试验机 | Ξ | 仪器编号 NO. | НҮ-) | PG-HS001-051 | |
| 试验条件 Condition | ř | 寄温 70±2℃ | | | 低温 | -40±2℃ | |
| 试验时间 Test time | | 24H | | | | 24H | |
| 测试方法 Test method | 将产品放置在温度为 试验完成后在常温环 | | | | | | |
| 判定标准 Judging standard | FPC无起翘:机械性 LDS化镀表面无异信 LDS化镀喷涂油墨元 外置天线外观无明 其它: 部件无裂痕 | 色、无脱落;机 和开裂、脱落;机 显异常、变色、 | 或性能检测 机械性能 起泡、变 | 查和电性能指标 检查和电性能指 形、开裂等和6 | 标测试通过。 电性能指标测试通过。 | ŝ | |
| 试验结果 Experiment a result | 1. FPC (□有 ■无) 2. LDS化镀表面 (□ 4 3. LDS化镀喷涂油墨 4. 外置天线外观无明 5. 其它: 部件(□有 | 「□无)异色、 (□有 □无) 开 显异常、变色、 | 脱落: 材 裂、脱落 起泡、变 | l械性能检查和国 : 机械性能检查 形、开裂等和国 | 电性能指标测试 (□ 查和电性能指标测试 电性能指标测试 | (□是□否)合格 (□是□否)合格; | |
| 判定结果 judge | ■ ОК | | 🗆 NG: | 1. 19 . | | | 70 |
| GB/T2424. 5-20 | 作业标准依照中华人时 05执行. 2标准依照中华人民共 | 25.594 - 12862555519553 | N | standards in China nationa 2.Judge stand | al standard GB/T24 | hepeo ple's Republ 24.5-2005 implement the People's Repub | ntation. |
| | 批准 Grant | | 审核 | Examine | | 试验员Tester | |
| | | | | | | | |

LR-4-PG-050/A.1



9. 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。

