

# 承 认 书

Approval Sheet

客户 (Customer):

客户料号 (Cus .P/N):

华联威料号 (HLW P/N):216104-1010-G63038

品名规格 (PronameSpec):板对板间距0.8高度4.6 40PIN

送样日期 (Delivery Date):2023/08/11

承认日期 (Acknowledge Date): 2023/08/11

|   |                  |                           |                    |
|---|------------------|---------------------------|--------------------|
| Approved No:  |                  | 客 户<br>Customer           |                    |
| 采 购 部<br>Purchasing Dept  | 品 质 部<br>QC Dept | 工 程 部<br>Engineering Dept | 确 认<br>Approved By |
|   |                  |                           |                    |
| 深 圳 市 华 联 威 电 子 科 技 有 限 公 司<br>SHEN ZHEN SHI HUA LIAN WEI ELECTRONICS TECHNOLOGY CO; LTD. |                  |                           |                    |
| 业 务 部<br>Sales Dept   | 品 管 部<br>QC Dept | 工 程 部<br>Engineering Dept | 核 准<br>Checked By  |
| 欧阳小丽  | 欠必锋              | 陈依婷                       | 唐竹君                |

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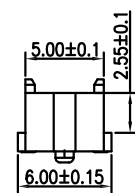
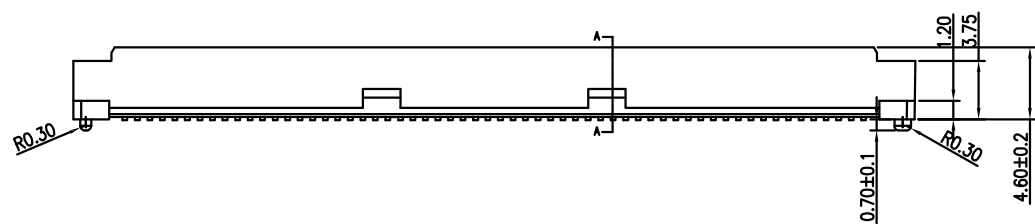
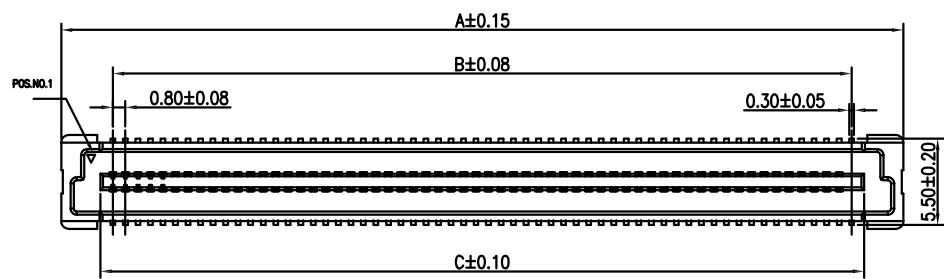
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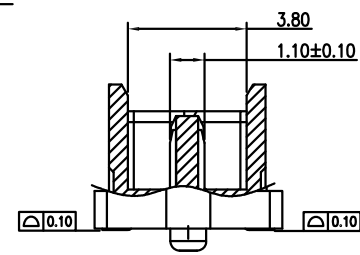
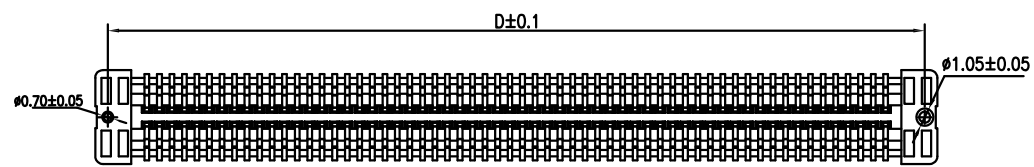
|      |         |       |
|------|---------|-------|
| REV. | ECN.NO. | APPD. |
| A    | /       | /     |

技术指标 (Technical Index) :

1. 工作温度 (Temperature range) : -25° C-85° C.
2. 额定电压 (Rated voltage) : 250V DC/AC (rms)
3. 额定电流 (Rated current) : 5A AC, DC
4. 接触阻抗 (CONTACT Resistance) :  $\leq 25\text{M}\Omega$
5. 耐压值 (Withstanding voltage) : 1500V AC/minute
6. 绝缘阻抗 (Insulation resistance)  $\geq 1000\text{M}\Omega$

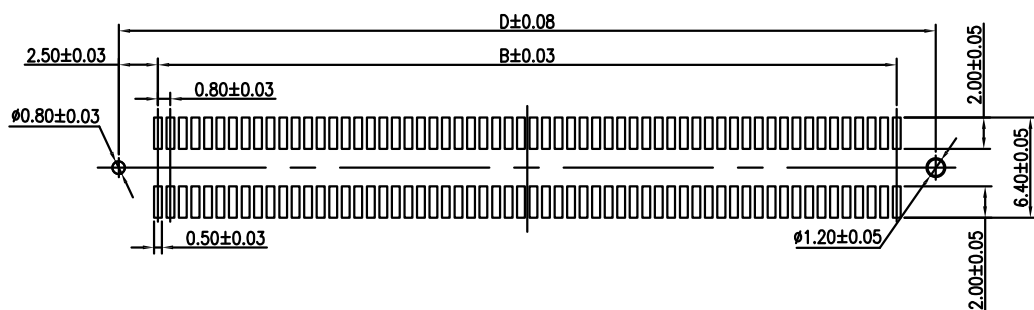


216104-1010-G63038  
 G: 半金G/Fu  
 6: LCP  
 3: 米黄色



SECTION A-A  
SCALE 2:1

| NO. of contacts | Dimensions |       |       |       |
|-----------------|------------|-------|-------|-------|
|                 | A.         | B.    | C.    | D.    |
| 40              | 21.80      | 15.20 | 16.80 | 20.20 |
| 60              | 29.80      | 23.20 | 24.80 | 28.20 |
| 80              | 37.80      | 31.20 | 32.80 | 36.20 |
| 100             | 45.80      | 39.20 | 40.80 | 44.20 |
| 120             | 53.80      | 47.20 | 48.80 | 52.20 |
| 140             | 61.80      | 55.20 | 56.80 | 60.20 |
| 160             | 69.80      | 63.20 | 64.80 | 68.20 |
| 180             | 77.80      | 71.20 | 72.80 | 76.20 |
| 200             | 85.80      | 79.20 | 80.80 | 84.20 |



RECOMMENDED P.C.BOARD LAYOUT

|                                      |          |
|--------------------------------------|----------|
| TOLERANCE UNLESS OTHERWISE SPECIFIED |          |
| .XXX ±0.10                           | .X' ±3'  |
| .XX ±0.20                            | .XX' ±2' |
| .X ±0.30                             |          |

**FLW** 深圳市华联威电子科技有限公司  
 HUA LIAN WEI TECHNOLOGY ELECTRONICS CO.;LTD.

|          |           |             |                     |       |       |      |
|----------|-----------|-------------|---------------------|-------|-------|------|
| APPROVED |           | PART NAME:  | 板对板间距0.8高度4.6 40PIN |       |       |      |
| CHECKED  |           | PART No:    | 216104-1010-G63038  |       |       | C    |
| DRAWN    | weihong   | PROJECTION: | UNIT:               | SCALE | SHEET | REV. |
| DATE     | 2021.9.23 |             | mm                  | 1:1   | 10F1  | A    |

## FPC系列產品SPEC

| TEST ITEM                         |                                       | REQUIREMENT   | PROCEDURE   |
|-----------------------------------|---------------------------------------|---|---|
| 1                                 | Examination of Product                | Meets requirements of product drawing.<br>No physical damage.   | Visual inspection.  |
| 2                                 | Operating Temperature                 | -25°C ~+85°C  |   |
| 3                                 | Storage Temperature :                 | -25°C ~+85°C  |   |
| <b>ELECTRICAL REQUIREMENT</b>     |                                       |   |   |
| 4                                 | Rating Voltage                        | 50V AC max  |   |
| 5                                 | Rating Current                        | 0.5Amperes max  |   |
| 6                                 | Contact Resistance                    | [40]Milliohms Max.(Initial)<br>[60]Milliohms Max.(Final)  | Subject mated contacts assembled in housing to 40mV Max open circuit at 1A Max.   |
| 7                                 | Dielectric withstanding Voltage       | No creeping discharge or flashover shall occur.Current leakage: 0.5mA Max.  | 200V AC for 1minute Test between adjacent circuits of unmated connector.  |
| 8                                 | Insulation Resistance                 | 500M Ohm Min  | Impressed voltage 200 VDC.Test between adjacent circuits of unmated connector.  |
| <b>Mechanical Requirement</b>     |                                       |   |   |
| 9                                 | Connector Withdrawal Force            | F(N)= P x 0.39 MIN (P: Number of Contacts) (With Black Slider)<br>F(N)= P x 0.27 MIN (P: Number of Contacts) (With Brown Slider)            | Operation Speed: 25mm/min.Measure the force required to mate connector.   |
| 10                                | Terminal & Solder Peg Retention Force | Test method complies with EIA-364-29  | 200gf MIN   |
| 11                                | Durability                            | See Note  | Operation Speed : 200cycle/Hour.Durability Cycles : 20Cycles  |
| 12                                | Vibration                             | No electrical discontinuity greater than 1 $\mu$ sec shall occur.   | Measure change in contact resistance after 2 hours of vibration in reach of the X,Y and Z directions. Frequency varying in 1 Minutes sweeping as 10~55~10 Hz with 1.5mm   |
| 13                                | Thermal Shock                         | 5 Cycles - 55°C $\pm$ 3°C for 30 minutes.<br>+85°C $\pm$ 2°C The connectors under test must be mated. There shall be no evidence of damage. | It shall be subjected to temperature cycle at the following condition 1 cycle consists of - 55°C $\pm$ 3°C for 30 minutes.<br>+85°C $\pm$ 2°C for 30minutes . Time of cycles: 5 cycles.<br>Test method complies with EIA-364-32 |
| <b>ENVIRONMENTAL REQUIREMENTS</b> |                                       |   |   |
| 14                                | Solder ability                        | Wet solder coverage:95%Min  | Solder Temperature : 260 $\pm$ 5°C,<br>Duration:5 $\pm$ 0.5sec.   |
| 15                                | Resistance to Wave Soldering Heat     | No physical damage shall occur.   | Solder Temp. : 260 $\pm$ 5°C, 10 $\pm$ 1sec.  |

|    |                 |  |  |
|----|-----------------|--|--|
| 16 | Salt spray test | Visual Inspection-No physical damageLLCR-60 mΩ max per contact | Mated connector expose to 5% salt concentration for 48 hours at temperature 35±2 °C .After the test specimens shall be washed with running water and dried naturally |
|----|-----------------|--|--|

| Product Qualification and Requalification test |                              |      |      |      |      |      |      |      |      |      |
|--|------------------------------|------|------|------|------|------|------|------|------|------|
| Test or Examination                            | Test Group                   |      |      |      |      |      |      |      |      |      |
|  | A                            | B    | C    | D    | E    | F    | G    | H    | I    | J    |
|  | Test Sequence (a)            |      |      |      |      |      |      |      |      |      |
| Examination of Product                         | 1, 7                         | 1, 9 | 1, 6 | 1, 5 | 1, 5 | 1, 5 | 1, 5 | 1, 3 | 1, 3 | 1, 3 |
| Contact Resistance                             |                              | 2, 8 | 2, 5 | 2, 4 | 2, 4 | 2, 4 | 2, 4 |      |      |      |
| Dielectric withstanding                        | 3, 6                         |      |      |      |      |      |      |      |      |      |
| Insulation Resistance                          | 2, 5                         |      |      |      |      |      |      |      |      |      |
| Temperature Rising                             |                              |      |      |      |      |      |      | 2    |      |      |
| Mating Force                                   |                              | 3, 7 |      |      |      |      |      |      |      |      |
| Unmating Force                                 |                              | 4, 6 |      |      |      |      |      |      |      |      |
| Durability                                     |                              | 5    |      |      |      |      |      |      |      |      |
| Vibration                                      |                              |      | 3    |      |      |      |      |      |      |      |
| Mechanical Shock                               |                              |      | 4    |      |      |      |      |      |      |      |
| Solderability                                  |                              |      |      |      |      |      |      |      |      | 2    |
| Resistance to Soldering                        |                              |      |      |      |      |      |      |      | 2    |      |
| Thermal Shock                                  |                              |      |      | 3    |      |      |      |      |      |      |
| Humidity Temperature                           | 4                            |      |      |      | 3    |      |      |      |      |      |
| Temperature Life                               |                              |      |      |      |      | 3    |      |      |      |      |
| Salt Spray                                     |                              |      |      |      |      |      | 3    |      |      |      |
| 備注   | 無客戶指定增加測試項目外，依照此標準進行產品可靠性評估。 |      |      |      |      |      |      |      |      |      |

核准：唐竹君

制作人：魏红

## 測試報告

## TEST REPORT

|                   |                     |                         |                           |                         |                                       |
|-------------------|---------------------|-------------------------|---------------------------|-------------------------|---------------------------------------|
| 產品名稱<br>Part Name | 板对板间距0.8高度4.6 40PIN | 測試日期<br>Date of Testing | 2023.08.09-<br>2023.08.11 | 報告編號<br>Report NO.      | MD20230811-01                         |
| 產品型號<br>Part Name | 216104-1010-G63038  | 樣品數量<br>Quantity        | 5PCS                      | 測試環境<br>Date of Testing | 濕度Temp:18~21℃<br>相對濕度<br>R.H.:49%~57% |

## 一. 電性測試 ELECTRICAL TEST

| 序號<br>NO | 測試項目<br>Testing Item | 測試條件<br>Testing Conditions | 測試設備<br>Testing Equipment<br>s | 規格<br>SPEC   | 測試記錄Testing Result |      |      |      |      | 判定<br>Judge |    |
|----------|----------------------|----------------------------|--------------------------------|--------------|--------------------|------|------|------|------|-------------|----|
|          |                      |                            |                                |              | 1                  | 2    | 3    | 4    | 5    | OK          | NG |
| 1        | 接觸阻抗                 | 20mA                       | 直流低電阻測試儀                       | 20mΩ Max     | Pass               | Pass | Pass | Pass | Pass | V           |    |
| 2        | 絕緣阻抗                 | 500 V DC/1分钟               | 絕緣電阻測試儀                        | 5000 MΩ Min. | Pass               | Pass | Pass | Pass | Pass | V           |    |
| 3        | 耐壓測試                 | 1000V AC /<br>0.5 mA 50秒   | 耐壓測試儀                          | No damaged   | OK                 | OK   | OK   | OK   | OK   | V           |    |

## 二. 机械特性測試 MECHANICAL TEST

| 序號<br>NO | 測試項目<br>Testing Item | 測試條件<br>Testing Conditions | 測試設備<br>Testing Equipment<br>s | 規格<br>SPEC | 測試記錄Testing Result |    |    |    |    | 判定<br>Judge |    |  |
|----------|----------------------|----------------------------|--------------------------------|------------|--------------------|----|----|----|----|-------------|----|--|
|          |                      |                            |                                |            | 1                  | 2  | 3  | 4  | 5  | OK          | NG |  |
| 4        | 插入力                  | 每分钟12.7±3mm的速度             | 插拔力計                           | 间距         | 插拔力                | OK | OK | OK | OK | OK          | V  |  |
|          |                      |                            |                                | 2.54mm     | 2.94<br>N<br>MAX   |    |    |    |    |             |    |  |
|          |                      |                            |                                | 2.00mm     | 1.96<br>N<br>MAX   |    |    |    |    |             |    |  |
|          |                      |                            |                                | 1.27mm     | 1.47<br>N<br>MAX   |    |    |    |    |             |    |  |
|          |                      |                            |                                | 1.00mm     | 0.78<br>4N<br>MAX  |    |    |    |    |             |    |  |
| 5        | 拔出力                  | 每分钟12.7±3mm的速度             | 插拔力計                           | 间距         | 插拔力                | OK | OK | OK | OK | OK          | V  |  |
|          |                      |                            |                                | 2.54mm     | 0.59<br>N<br>MIN   |    |    |    |    |             |    |  |
|          |                      |                            |                                | 2.00mm     | 0.49<br>N<br>MIN   |    |    |    |    |             |    |  |
|          |                      |                            |                                | 1.27mm     | 0.30<br>N<br>MIN   |    |    |    |    |             |    |  |
|          |                      |                            |                                | 1.00mm     | 0.15<br>N<br>MIN   |    |    |    |    |             |    |  |
| 6        | 锁口保持力                | 间距                         | 插拔力                            | 吊重测试机      | 不得发生物理损坏。          | OK | OK | OK | OK | OK          | V  |  |
|          |                      | 2.54mm                     | 9.8N MIN                       |            |                    |    |    |    |    |             |    |  |
|          |                      | 2.00mm                     | 7.84N MIN                      |            |                    |    |    |    |    |             |    |  |
|          |                      | 1.27mm                     | 2.45N MIN                      |            |                    |    |    |    |    |             |    |  |
|          |                      | 1.00mm                     | 0.08N MIN                      |            |                    |    |    |    |    |             |    |  |

|   |     |                             |      |           |    |    |    |    |    |   |  |
|---|-----|-----------------------------|------|-----------|----|----|----|----|----|---|--|
| 7 | 耐久性 | 测试速度：每分钟15个循环，测试次数：100次循环最少 | 插拔力計 | 不得发生物理损坏。 | OK | OK | OK | OK | OK | V |  |
|---|-----|-----------------------------|------|-----------|----|----|----|----|----|---|--|

三. 环境特性测试 ENVIRONMENTAL TEST

| 序號<br>NO | 測試項目<br>Testing Item | 測試條件<br>Testing Conditions       | 測試設備<br>Testing Equipment | 規格<br>SPEC | 測試記錄Testing Result |    |    |    |    | 判定<br>Judge |    |
|----------|----------------------|----------------------------------|---------------------------|------------|--------------------|----|----|----|----|-------------|----|
|          |                      |                                  |                           |            | 1                  | 2  | 3  | 4  | 5  | OK          | NG |
| 9        | 冷热冲击                 | 温度-40±3℃<br>温度105±3℃<br>持续时间0.5H | 高低温试验箱                    | 不得发生物理损坏。  | OK                 | OK | OK | OK | OK | V           |    |
| 10       | 湿温循环                 | 温度85℃±5℃,<br>持续时间:250H           | 湿温循环机                     | 最大接触阻抗20mΩ | OK                 | OK | OK | OK | OK | V           |    |
| 11       | 盐雾试验                 | 温度:35±2℃<br>12小时                 | 盐雾试验箱                     | 最大接触阻抗20mΩ | OK                 | OK | OK | OK | OK | V           |    |
| 12       | 可焊性                  | 焊锡温度:<br>260±5℃                  | 熔锡炉                       | 沾锡面积达90%以上 | OK                 | OK | OK | OK | OK | V           |    |
| 13       | 焊接耐热试验               | 260±5℃<br>10秒                    | 工业烘烤箱                     | 不得发生物理损坏   | OK                 | OK | OK | OK | OK | V           |    |
|          |                      |                                  |                           |            |                    |    |    |    |    |             |    |

綜合判定  
TEST JUDGMENT

合格 (Acceptable)

不合格 (Reject)

核准(Approver): 欠必锋

測試(Tester): 但芬

# 深圳市华联威电子科技有限公司

## 检验报告

首件检验  
 入库检验  
 出货检验  
 客退检验  
 退料检验  
 其他
 2023年08月11日 版次: A1

| 料号  | 216104-1010-G63038  |          | 制令单号   | /          |       | 送检单位     | 工程部     |                 | 首件制作者    | 装配       |     |     |    |
|---|---------------------|----------|--|------------|-------|----------|---------|-----------------|----------|----------|-----|-----|----|
| 品名  | 板对板间距0.8高度4.6 40PIN |          | 客户代号   | /          |       | 批 量      | /       |                 | 送检时间     | /        |     |     |    |
|   |                     |          |  |            |       | 数 量      | 5PCS    |                 | 确认时间     | /        |     |     |    |
| 抽样标准  |                     |          | <input checked="" type="checkbox"/> 单次 <input type="checkbox"/> 双次                             |            |       | 抽样数      | AQL     | CRI:0           | MAJ:0.40 | MIN:0.65 |     |     |    |
| MIL-STD-105E(II)  |                     |          | <input checked="" type="checkbox"/> 正常 <input type="checkbox"/> 加严 <input type="checkbox"/> 减量 |            |       | ( 5PCS ) | ACC/REJ | 0               | /        | /        |     |     |    |
| 不良数: CRI ( / )   MAJ ( / )   MIN ( / )  |                     |          |  |            |       |          |         |                 | 不良率(%)   |          |     | /   |    |
| NO.   | 检验项目                | 检测<br>仪器 | 检 验 记 录  |            |       |          |         | 品管判定            |          | CRI      | MAJ | MIN | 备注 |
|   | 单位:MM/G             |          | 1  | 2          | 3     | 4        | 5       | AC              | RE       |          |     |     |    |
|   | 21.80±0.15          | D        | 21.82  | 21.81      | 21.83 | 21.83    | 21.84   | √               |          |          |     |     |    |
|   | 15.20±0.08          | D        | 15.19  | 15.20      | 15.19 | 15.18    | 15.19   | √               |          |          |     |     |    |
|   | 0.30±0.05           | D        | 0.31   | 0.30       | 0.31  | 0.29     | 0.30    | √               |          |          |     |     |    |
|   | 16.80±0.10          | D        | 16.78  | 16.80      | 16.79 | 16.78    | 16.79   | √               |          |          |     |     |    |
|   | 5.50±0.20           | D        | 5.53   | 5.55       | 5.54  | 5.55     | 5.53    | √               |          |          |     |     |    |
|   | 20.20±0.10          | D        | 20.22  | 20.21      | 20.22 | 20.19    | 20.21   | √               |          |          |     |     |    |
|   | 1.20±0.20           | D        | 1.18   | 1.20       | 1.18  | 1.19     | 1.20    | √               |          |          |     |     |    |
|   | 3.75±0.20           | D        | 3.77   | 3.79       | 3.76  | 3.78     | 3.77    | √               |          |          |     |     |    |
|   | 4.60±0.20           | D        | 4.58   | 4.60       | 4.59  | 4.58     | 4.60    | √               |          |          |     |     |    |
|   |                     |          |  |            |       |          |         |                 |          |          |     |     |    |
|   |                     |          |  |            |       |          |         |                 |          |          |     |     |    |
|   |                     |          |  |            |       |          |         |                 |          |          |     |     |    |
|   |                     |          |  |            |       |          |         |                 |          |          |     |     |    |
|   |                     |          |  |            |       |          |         |                 |          |          |     |     |    |
|   |                     |          |  |            |       |          |         |                 |          |          |     |     |    |
|   |                     |          |  |            |       |          |         |                 |          |          |     |     |    |
|   |                     |          |  |            |       |          |         |                 |          |          |     |     |    |
|   |                     |          |  |            |       |          |         |                 |          |          |     |     |    |
|   |                     |          |  |            |       |          |         |                 |          |          |     |     |    |
|   |                     |          |  |            |       |          |         |                 |          |          |     |     |    |
|   |                     |          |  |            |       |          |         |                 |          |          |     |     |    |
|   |                     |          |  |            |       |          |         |                 |          |          |     |     |    |
|   |                     |          |  |            |       |          |         |                 |          |          |     |     |    |
|   |                     |          |  |            |       |          |         |                 |          |          |     |     |    |
|   |                     |          |  |            |       |          |         |                 |          |          |     |     |    |
| 检验依据: <input checked="" type="checkbox"/> 《工程图纸》 <input type="checkbox"/> 《检验规范》 <input type="checkbox"/> 《承认书》 <input type="checkbox"/> 样品 <input type="checkbox"/> 其它 |                     |          |  |            |       |          |         |                 |          |          |     |     |    |
| 检测仪器:A游标卡尺 B千分尺 C厚薄仪 D投影镜 E放大镜 F显微镜 G锡炉 H插拔力器 I间位尺 J其它  |                     |          |  |            |       |          |         |                 |          |          |     |     |    |
| 品保判定:   |                     |          |  |            |       |          |         |                 |          |          |     |     |    |
| 核 准<br>APP  | 欠必锋                 |          |  | 审 核<br>CHK | /     |          |         | 检 验 员<br>INSPBY | 但 芬      |          |     |     |    |



|                               |          |               |    |          |          |
|-------------------------------|----------|---------------|----|----------|----------|
| 品名: 板对板间距0.8高度4.6 40PIN (端子)  |          | 版次:A.0        |    |          |          |
| 电镀规格:Ni30u", Sn100u", Au0.5u" |          | 日期:2023/03/04 |    |          |          |
| 页次:1/1                        |          | 厂商:同华         |    |          |          |
| 测试设备:CMI X-射线膜厚测试仪            |          | 1、底层电镀测试 (Ni) |    |          |          |
| 1、底层电镀测试 (Ni)                 |          |               |    |          |          |
| 数据                            | 测试标准     | 实测值           | 判定 | 测试日期     | 测试时间     |
| 1                             | 30u"MIN  | 53.5u"        | OK | 2023/3/4 | 10:20:15 |
| 2                             | 30u"MIN  | 52.3u"        | OK | 2023/3/4 | 10:20:17 |
| 3                             | 30u"MIN  | 60.5u"        | OK | 2023/3/4 | 10:20:19 |
| 4                             | 30u"MIN  | 63.4u"        | OK | 2023/3/4 | 10:20:21 |
| 2、表层电镀测试 (Sn)                 |          |               |    |          |          |
| 数据                            | 测试标准     | 实测值           | 判定 | 测试日期     | 测试时间     |
| 1                             | 100u"MIN | 107.3u"       | OK | 2023/3/4 | 10:25:10 |
| 2                             | 100u"MIN | 104.7u"       | OK | 2023/3/4 | 10:25:12 |
| 3                             | 100u"MIN | 106.9u"       | OK | 2023/3/4 | 10:25:14 |
| 4                             | 100u"MIN | 103.4u"       | OK | 2023/3/4 | 10:25:16 |
| 3、表层电镀测试 (Au)                 |          |               |    |          |          |
| 数据                            | 测试标准     | 实测值           | 判定 | 测试日期     | 测试时间     |
| 1                             | 0.5u"MIN | 0.55u"        | OK | 2023/3/4 | 10:30:32 |
| 2                             | 0.5u"MIN | 0.58u"        | OK | 2023/3/4 | 10:30:34 |
| 3                             | 0.5u"MIN | 0.56u"        | OK | 2023/3/4 | 10:30:36 |
| 4                             | 0.5u"MIN | 0.59u"        | OK | 2023/3/4 | 10:30:38 |

核准: 欠必锋

审核: 李娟

检验员: 但芬

## 盐水喷雾实验报告

|  |                                  |        |                      |
|--|----------------------------------|--------|----------------------|
| 试验方法   | 盐水喷雾腐蚀试验法                        | 参考资料   | MIL-STD-1345         |
| METHOD   | NEUTRL SALT SPRAY CORROSION TEST | REF    |                      |
| 客户   |                                  | 试验起始日期 | 2023年08月10日 12:00 时起 |
|  |                                  | DATE   | 2023年08月11日 08:00 时止 |
| 样品名称   | 板对板间距0.8高度4.6 40PIN              | 试验数量   | 5PCS                 |
| P/N  | 216104-1010-G63038               | QTY    |                      |
| 试验条件 (TEST CONDITION)  |                                  |        |                      |
| 1、盐水溶解 (SALT SOLUTION: 浓度 $50 \pm 10$ g/L, PH值6.5-7.2).  |                                  |        |                      |
| 2、试验室温度 (TEMP. IT THE SPRAY DHAMBR): $35 \pm 1$ °C.  |                                  |        |                      |
| 3、盐水桶温度 (TEMP. OF SALE SOL' N TANK): $35 \pm 1$ °C.  |                                  |        |                      |
| 4、压力桶温度 (TEMP. OF SAR SUPPLIERY): $47 \pm 1$ °C.   |                                  |        |                      |
| 5、试验室相对湿度 (R. H IN THE CHAMBER) 85%.   |                                  |        |                      |
| 6、压缩空气压力 (COMPRESSED AIR PRESSURE): $1.00 \pm 0.01$ Kg/cm <sup>2</sup> .   |                                  |        |                      |
| 7、样品放置位置 (SPECIMEN SUPPORTED ANGLE): 尼龙绳吊挂70° -90° .   |                                  |        |                      |
| 8、喷雾收集量 (COLLECT RATE OF SALT SOL' N) 1-2mL/(8 cm <sup>2</sup> hr).  |                                  |        |                      |
| 9、盐雾测试时间: 12小时 (H)   |                                  |        |                      |
| 判定方法 (ADFUSGD METHOD)  |                                  |        |                      |
| 试验后以20倍放大镜观察、无蓝、绿色腐蚀物之现象 (不包含折弯处), 即判定合格. (Inspext the ecimen at 20 xmagnification no blue or green corrosion products are acceptable) |                                  |        |                      |
| 样品序号   | 试验后现象                            |        | 判定                   |
|  | PHENOMENON AFTER TEST            |        | COMMENT              |
| 1  | 无蓝、绿色腐蚀物之现象                      |        | OK                   |
| 2  | 无蓝、绿色腐蚀物之现象                      |        | OK                   |
| 3  | 无蓝、绿色腐蚀物之现象                      |        | OK                   |
| 4  | 无蓝、绿色腐蚀物之现象                      |        | OK                   |
| 5  | 无蓝、绿色腐蚀物之现象                      |        | OK                   |
|  |                                  |        |                      |

核准: 欠必锋

审核: 李娟

试验员: 但芬

# 东莞市海嵘兴塑胶有限公司

## LCP材质分析报告

| 品 名     | 比 例   | 用 途            |
|---------|-------|----------------|
| 杜邦LCP树脂 | 0.68  | 构成材料主要成份       |
| 抗氧剂     | 0.003 | 抗氧化            |
| 日本住友TAP | 0.002 | 润滑及增加流动性       |
| 大洋安定剂   | 0.005 | 稳定机械性能, 方便重复使用 |
| 玻纤      | 0.30  | 增强             |
| 色母      | 0.01  | 着色             |

注：以上数据真实可靠，但并非绝对值，并不做任何商业依据。





# 产品质量证明书

INSPECTION CERTIFICATE

QIAN YI

DONGGUAN QIANYI METAL MATERIAL CO., LTD

客户 CUSTOMER: 华联威

牌号: C2680 R 状态: EH 规格 (mm): 0.18

化学成分 CHEMICAL COMPOSITION% 化学标准 GB/T5231-2001

| 成份  | Cu        | Pb      | Fe      | Zn  | 杂质    |
|-----|-----------|---------|---------|-----|-------|
| 标准值 | 63.5-68.0 | max0.03 | max0.10 | rem | ..... |
| 实测值 | 64.36     | 0.0067  | 0.0276  | rem | ..... |

物理性能 PHYSICAL PROPERTY 性能标准 GB/T5231-2001

| 性能  | 抗拉 (Mpa)         | 延伸率 (%)    | 维氏硬度 (HV)     | 厚度公差 (mm) | 宽度公差 (mm) |
|-----|------------------|------------|---------------|-----------|-----------|
|     | Tensile strength | Elongation | Hardness Test | Thickness | Width     |
| 标准值 | 530-620          | ≥4         | 160-190       | +0        | +0        |
| 实测值 | 558.4            | good       | 178.4         | -0.01     | -0.05     |

发货日期: 2023-07-11

