

承 认 书

Approval Sheet

客户 (Customer): /

客户料号 (Cus .P/N): /

华联威料号 (HLW P/N): U573-2145-G63038

品名规格 (PronameSpec): TYPE C 母座

送样日期 (Delivery Date):2021/12/07

承认日期 (Acknowledge Date):2021/12/07

| | | | |
|---|------------------|---------------------------|--------------------|
| Approved No: | | 客 户 Customer | |
| 采 购 部 Purchasing Dept | 品 质 部 QC Dept | 工 程 部 Engineering Dept | 确 认 Approved By |
| | | | |
| 深 圳 市 华 联 威 电 子 科 技 有 限 公 司 SHEN ZHEN SHI HUA LIAN WEI ELECTRONICS TECHNOLOGY CO; LTD. | | | |
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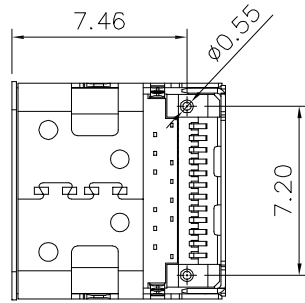
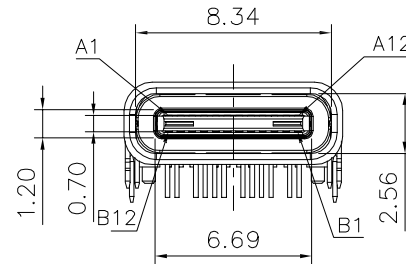
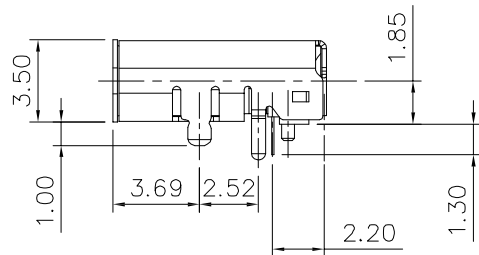
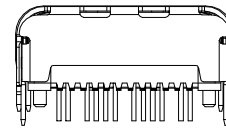
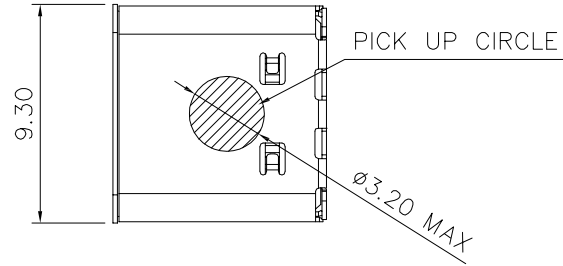
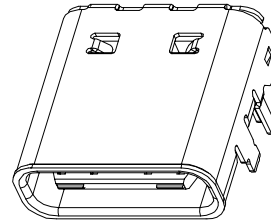
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| | | |
|------|---------|-------|
| REV. | ECN.NO. | APPD. |
| A | / | ZFY |



SPECIFICATIONS:
 Contact current Rating:
 5 Amperes for A1/B1/A12/B12&A4/B4/A9/B9.
 0.25 Amperes other contacts
 Withstanding Voltage: AC 100V(RMS)
 Insulation resistance: 100Megohms Minimum.
 Contact Resistance: 40mΩ Max
 Durability Test: 10000 Cycles
 Mating Force: 5-20 Newtons
 Unmating Force: 8-20 Newtons.

| Pin | Signal Name | Mating Sequence | Pin | Signal Name | Mating Sequence |
|-------|-------------|-----------------|-------|-------------|-----------------|
| A1 | GND | First | B12 | GND | First |
| A2 | SSTXp1 | Second | B11 | SSRXp1 | Second |
| A3 | SSTXn1 | Second | B10 | SSRXn1 | Second |
| A4 | VBUS | First | B9 | VBUS | First |
| A5 | CC1 | Second | B8 | SUB2 | Second |
| A6 | Dp1 | Second | B7 | Dn2 | Second |
| A7 | Dn1 | Second | B6 | Dp2 | Second |
| A8 | SUB1 | Second | B5 | CC2 | Second |
| A9 | VBUS | First | B4 | VBUS | First |
| A10 | SSRXn2 | Second | B3 | SSTXn2 | Second |
| A11 | SSRXp2 | Second | B2 | SSTXp2 | Second |
| A12 | GND | First | B1 | GND | First |
| SHELL | | GND | SHELL | | GND |

- U573-214X-XXX038
- 1: 铁壳镀镍
 - 5: 铜壳镀镍
 - B: 不锈钢镀镍
 - 1: 半金1u"
 - 3: 半金3u"
 - G: 半金G/Fu"
 - 1: 盘装
 - 3: 载带
 - 1: 黑色
 - 2: 白色
 - 3: 米黄色
 - 1: PA46
 - 2: PBT
 - 6: LCP

| | | | | | | |
|--------------------------------------|------------|---|------------------|-------|-------|------|
| TOLERANCE UNLESS OTHERWISE SPECIFIED | | FLW 深圳市华联威电子科技有限公司 | | | | |
| .XXX ±0.15 | | HUA LIAN WEI TECHNOLOGY ELECTRONICS CO;LTD. | | | | |
| .XX ±0.20 | | | | | | |
| .X ±0.30 | | | | | | |
| APPROVED | | PART NAME: | USB TYPE C 母座 | | | |
| CHECKED | | PART No: | U573-2145-X63038 | | | C |
| DRAWN | Shen | PROJECTION: | UNIT: | SCALE | SHEET | REV. |
| DATE | 2021.09.01 | | mm | 1:1 | 10F1 | A |

USB 3.1 TYPE-C系列产品SPEC

版本版次: C

制定日期 20200707

适用范围 通用

1. Scope (范围)

1.1 Contents(内容)

This specification covers the performance, tests and quality requirements for the Electronics USB 3.1 TYPE-C Connector.(此份产品规格适用于USB 3.1 TYPE-C连接器的产品功能，测试方法及质量要求)

2. Requirements (要求):

2.1 Rating(额定条件)

A. Voltage rating(额定电压):30V AC

B. Current rating(额定电流):1.5A

C. Operation Temperature Range(工作温度范围):-30°C to +80°C

3. Test Condition(测试条件):

3.1 Temperature range(温度范围):-15°C to +35°C

3.2 Humidity range (湿度范围):25% to 85%

4. Test Methods and Requirements:(测试方法及要求)

4.1 Examination of product (产品外观)

| | | | |
|-----|-----------------------------------|--------------|--|
| 4.1 | Examination of Product 1. 产品外观 | Visual 目视 | No peeling off the plating deformation of the base or damage. 不得有电镀层剥落，塑料变形或破损 |
|-----|-----------------------------------|--------------|--|

4.2. Electrical Performance(电气性能)

| | | | |
|-----|---|--|--|
| 4.2 | Contact Resistance 1. 接触阻抗 | (EIA-364-06B) 适合USB 3.1 TYPE-C嵌合；开放电压20mv以下；短路电流100ma的状态下测定。 Mate applicable USB 3.1 TYPE-C and measure by dry circuit, 20mv MAX, 100mA. 40mΩMAX | 40mΩ MAX |
| 4.2 | Dielectric Withstanding Voltage 2. (耐电压) | (EIA-364-20C) Unmated connectors, apply 100V AC (RMS.) for 1 minute between adjacent terminals of ground. 没有配对的连接器在相邻的端子或接地之间通上100V的交流电压1分钟 | 1. No Breakdown or flashover 2. Leakage current:0.5mA Max 1. 不能有损坏或跳火花 2. 漏电流<0.5mA |
| 4.2 | Insulation Resistance 3. 绝缘阻抗 | (EIA-364-21C) Unmated connectors, apply 500V DC for 1 minute between adjacent terminals of ground. 没有配对的连接器在相邻的端子或接地之间通上500V的直流电压1分钟 | 100MΩ min (unmated) 没有配对需大于100 MΩ |

4.3Mechanical Performance(机械性能)

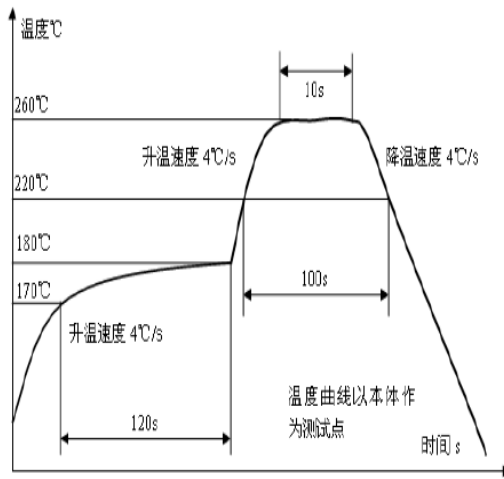
| | | | |
|-------------------------------|---------------------------------------|---|--|
| 4. 3. 1 | Insertion/Withdrawal Force 插入力/拔出力 | (EIA-364-13) Insertion and withdrawal speed: 25mm/minute. 插入和拔出的速度为25mm/分 | 插入力 Insertion 0.50kgf/MIN, 2.0kgf/MAX 拔出力 Withdrawal 0.80kgf/MIN, 2.0kgf/MAX After 10000 cycles 0.6kgf/MIN, 2.0kgf/MAX |
| 4. 3. 2 | Durability 寿命测试 | (EIA-364-09) 适合USB 3.1 TYPE-C; 用每分钟12.5mm的速度, 平行的插入, 拔出。 Insert and extract applicable USB 3.1 TYPE-C at the speed rate of 12.5 mm/minute. | 10000 cycles |
| 4. 3. 3 | Humidity-Temperature cycle 温湿度循环 | | |
| 4. 3. 4 | Vibration 振动 | (EIA-364-28条件3) Amplitude:1.52mm P-P or 147m/s ² {15G} Sweep time: 50-2000-50Hz in 20 minutes. Duration: 12 times in each (total of 36 times) X, Y, Z, axes. Electrical load DC 100mA current shall be flowed during the test.(ANSI/EIA-364-28 Condition III) 在直流100毫安通电状态下测试, 在X,Y,Z垂直3方向上, 频率50-2000-50赫兹(加速度往复20分钟), 全振幅1.52mm P-P或147 m/s ² {15G}, 每轴12回计36回 | Appearance: No damage 外观: 无损坏 Contact Resistance 接触阻抗 Contact: Change from initial Value:30mΩ Max. 端子: 从初始值开始变化量小于30mΩ 间断性: 不超过1微秒 |
| 4. 3. 4 | Physical shock 冲击性 | (EIA-364-27条件A) Pulse width: 11msec Waveform: Half-sine 490m/s ² (50G) 3 strokes in each X, Y, Z axes. (ANSI/EIA-364-27 condition A) 周期: 11msec 冲击波形: 正弦半波490m/s ² (50G) 3循环在X, Y, Z轴 | Appearance: No damage 外观: 无损坏 Contact Resistance 接触阻抗 Contact: Change from initial Value 40mΩ Max 端子: 从初始值开始变化量小于40mΩ Discontinuity: 1μ sec Max. 间断性: 不超过1微秒 |
| 4.4 Environmental Performance | | | |

| | | | |
|-----------|----------------------------|---|---|
| 4. 4.1 | Thermal shock test 冷热冲击 | EIA-364-32C条件1) 10 cycles of: a)-55±3℃ for 30 minutes b) +85±3℃ for 30 minutes 10个循环, a)-55±3℃ 30 分钟 b) +85±3℃ 30 分钟 | Appearance: No Damage. 外观: 没有损坏 Contact Resistance 接触阻抗 Contact: Change from initial Value 40mΩ Max 端子: 从初始值开始变化量小于40mΩ |
| 4. 4.2 | Solder ability 焊锡性 | (EIA-364-52) To be sipped in the solder bath 245±5℃ Coverage for 3 seconds. 将焊锡脚浸在245±5℃的锡炉中<3秒 | The inspected area of each lead must have 90% solder coverage minimum |
| 4. 4.3 | Humidity 恒温恒湿 | (EIA-364-31B) (A) Mate connectors together and perform the test as follows 配对的连接器测试条件 Temperature: +25℃ to +85℃(温度: +25℃到+85℃) Relative Humidity: 90% to 95%(相对湿度: 90%到95%) Duration:4 cycles(96 hours) (持续时间: 4个循环共96小时) Upon completion of the test, specimens shall be conditioned ambient room conditions for 24 hours, after which the specified measurements shall be performed. 试验完成后, 样品放置于室温条件中24小时后再进行测试 | Appearance: No Damage 外观, 没有损坏 Contact Resistance 接触阻抗 Contact: Change from initial Value 30mΩ Max 端子: 从初始值开始变化量小于30mΩ |
| 4. 4.4 | Salt Spray 盐水喷雾 | EIA-364-26B) Temperature: 35±2℃ 温度: 35±2℃ Concentration for salt: 5% 盐水浓度: 5% (1)Duration: 24H 持续时间: 24小时 Condition(条件): Contact plated gold more than 15u" (include 15 u"),and the material of shell for copper alloy, or stainless. 端子镀金厚度大于等于15 u" 且壳体材质是铜合金或是不锈钢 (2) Duration: 12H 持续时间: 12小时 Condition(条件): Contact plated gold less than 15 u" ,and/or the material of shell for steel 端子镀金厚度小于15u" 且/或壳体材质是铁材 | No detrimental corrosion(Terminal solder tail unrequested) 产品无氧化, 锈蚀(端子焊脚镀锡处不作要求) |

| | | | |
|-----|----------------------------------|--|--|
| 4.5 | Cold resistance (Unmated) 冷阻抗 | <p>(EIA-364-17B)</p> <p>Unmated connectors and expose to $-25\pm 3^{\circ}\text{C}$ for 168 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed.</p> <p>没配对的连接器放置于$-25\pm 3^{\circ}\text{C}$温度中168小时，当完成实验后，样品放置一般环境中1到2小时后，在进行测试</p> | <p>Appearance: No Damage.</p> <p>外观：没有损坏</p> <p>Contact Resistance 接触阻抗</p> <p>Contact: Change from initial Value 30mΩ Max</p> <p>Shell Part: Change from initial Value 50mΩ Max</p> <p>端子：从初始值开始变化量小于30mΩ</p> <p>外壳：从初始值开始变化量小于50mΩ</p> |
| 4.6 | Heat resistance (Unmated) 热阻抗 | <p>(EIA-364-17B)</p> <p>Mated connectors and expose to $85\pm 2^{\circ}\text{C}$ for 168 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed.</p> <p>配对的连接器放置于$85\pm 2^{\circ}\text{C}$温度中168小时，当完成实验后，样品放置一般环境中1到2小时后，在进行测试</p> | <p>Appearance: No Damage.</p> <p>外观：没有损坏</p> <p>Contact Resistance 接触阻抗</p> <p>Contact: Change from initial Value 30mΩ Max</p> <p>Shell Part: Change from initial Value 50mΩ Max</p> <p>端子：从初始值开始变化量小于30mΩ</p> <p>外壳：从初始值开始变化量小于50mΩ</p> |
| 4.7 | Thermal Aging 高温老化 | <p>(EIA-364-31B, Condition 4, Method A)</p> <p>Unmated connectors and expose to $+85\pm 2^{\circ}\text{C}$ for 250 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed.</p> <p>没配对的连接器放置于$+85\pm 2^{\circ}\text{C}$温度中250小时，当完成实验后，样品放置一般环境中1到2小时后，在进行测试</p> | <p>Appearance: No Damage.</p> <p>外观：没有损坏</p> <p>Contact Resistance 接触阻抗</p> <p>Contact: Change from initial Value 40mΩ Max</p> <p>端子：从初始值开始变化量小于40m</p> |
| 4.8 | Resistance to Soldering Heat | <p>for wave soldering : mil-std-202f,method 210 A,test condition B</p> <p>波峰焊: mil-std-202f, method 210 A, 试验条件B</p> <p>Pre-heat : 80°C, 60 Seconds 预热:80°C, 60秒</p> <p>Temperature : $260 \pm 5^{\circ}\text{C}$ 温度:$260\pm 5^{\circ}\text{C}$</p> <p>Immersion duration : 10 ± 1 sec. 浸泡时间:10 ± 1秒。</p> <hr/> <p>for manual soldering :手动焊接:</p> <p>mil-std-202f,method 210 A,test condition A</p> <p>Pre-heat : No 预热:没有</p> <p>Temperature : $350 \pm 10^{\circ}\text{C}$ 温度:$350\pm 10^{\circ}\text{C}$</p> <p>Immersion duration : 3.5 ± 0.5 sec. 浸泡时间:3.5 ± 0.5秒</p> | <p>No physical damage shall occur.</p> <p>不可有损坏</p> <p>Reflow welding is not applicable to PBT</p> <p>回流焊不适用于PBT</p> |

Solder Temp: 260±5°C,10±0.5sec

焊锡温度: 260±5°C,10±0.5sec



Note 1: Shall meet visual requirements, show no physical damage, and meet requirement of additional tests as specified in the test sequence in Figures 2

说明1: 测试要求不能有物理损坏, 测试依据表格二的顺序进行

3.Product Qualification And Requalification Test:产品测试顺序表 Figure 2

| Test or Examination | Test Group | | | | | | | | | | | | | | |
|----------------------------------|------------|-----|-----|---|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|---|
| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | |
| Test Sequence | | | | | | | | | | | | | | | |
| 4.1.1.Examination of Product 产 | 1,9 | 1,3 | 1,5 | 1 | 1,5 | 1,5 | 1,5 | 1,3 | | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1 |
| 4.2.1.Contact Resistance 接触 | 2,8 | | 2,4 | | 2,4 | 2,4 | 2,4 | | | 2,4 | 2,4 | 2,4 | 2,4 | 2,4 | |
| 4.2.2.Dielectric Withstanding | 3,7 | | | | | | | | | | | | | | |
| 4.2.3.Insulation Resistance 绝缘 | 4,6 | | | | | | | | | | | | | | |
| 4.3.1.Insertion/Withdrawal force | | 2 | | | | | | | | | | | | | |
| 4.3.2.Durability 寿命测试 | | | 3 | | | | | | | | | | | | |
| 4.3.3.Vibration 振动性 | | | | | 3 | | | | | | | | | | |
| 4.3.4.Physical shock 冲击性 | | | | | | 3 | | | | | | | | | |
| 4.4.1.Thermal shock test 冷热 | | | | | | | 3 | | | | | | | | |
| 4.4.2.Solderability 焊锡性 | | | | | | | | 2 | | | | | | | |
| 4.4.3.Humidity 恒温恒湿 | 5 | | | | | | | | | 3 | | | | | |
| 4.4.4.Salt Spray 盐水喷雾 | | | | | | | | | | 3 | | | | | |
| 4.4.5.Cold resistance 冷阻 | | | | | | | | | | | 3 | | | | |

| | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|--|---|---|---|---|---|
| 4.4.6.Heat resistance 热阻 | | | | | | | | | | | | 3 | | |
| 4.4.7.Thermal Aging 高温老化 | | | | | | | | | | | | | 3 | |
| 4.4.8.IR-reflow 回流焊测试 | | | | | | | | | | | | | | 2 |
| NO. of Test samples(Min.) 测 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | 5 | 5 | 5 | 5 | 5 |

NOTE 2: (a) Numbers indicate sequence in which tests are performed.
 (b) Discontinuities shall not take place in this test group, during tests.
 说明 2: (a)测试依照矩阵要求数量进行。
 (b)在测试中，群组测试不能间断

核准：唐竹君

制作人：魏红

測試報告

TEST REPORT

| 產品名稱 Part Name | TYPE C 母座 | 測試日期 Date of Testing | 2021.12.06 2021.12.07 | 報告編號 Report NO. | MD20211207-01 | | | | | | |
|-------------------------------------|------------------------------|---|---|---------------------------------|------------------------------------|----------|----------|----------|----------|-------------|------|
| 產品型號 Part Name | U573-2145-G63038 | 樣品數量 Quantity | 5PCS | 測試環境 Measuring Environment | 濕度 Temp:18 ±1°C 相對濕度 R.H.:49% f57% | | | | | | |
| 一. 電性測試 ELECTRICAL TEST | | | | | | | | | | | |
| 序號 NO. | 測試項目 Testing Item | 測試條件 Testing Conditions | 測試設備 Testing Equipment | 規格 SPEC | 測試記錄 Testing Result | | | | | 判定 Judge | |
| | | | | | 1 | 2 | 3 | 4 | 5 | Pass | Fail |
| 1 | Contact resistance | Test current:100mA max | DIGITAL MICRO—OHMMETER | 40 mΩ Max | 14.77 mΩ | 15.42 mΩ | 15.86 mΩ | 16.37 mΩ | 17.53 mΩ | P | |
| 2 | Insulation resistance | Test voltage:500VDC Operation stated:1min | ULTRA HIGH RESISTANCE METER | 100 mΩ Min | Pass | Pass | Pass | Pass | Pass | P | |
| 3 | Dielectric withstand voltage | Test voltage:100VAC Cut—off current:0.5mA Operation stated:1 min | BREAKDOWN TESTER | No discharge or flashover occur | Pass | Pass | Pass | Pass | Pass | P | |
| 二. 機械特性測試 MECHANICAL TEST | | | | | | | | | | | |
| 序號 NO. | 測試項目 Testing Item | 測試條件 Testing Conditions | 測試設備 Testing Equipment | 規格 SPEC | 測試記錄 Testing Result | | | | | 判定 Judge | |
| | | | | | 1 | 2 | 3 | 4 | 5 | Pass | Fail |
| 1 | Durability test | Rate:200cycles/hour Total: 10000 cycles | LIFE TESTER FOR CONNECTOR | No physical damage | Pass | Pass | Pass | Pass | Pass | P | |
| 2 | Mating Force | 5N-20Newtons maximum at a maximum rate of 12.5mm per minute | Insertion force testing machine | No physical damage | Pass | Pass | Pass | Pass | Pass | P | |
| 3 | Un—Mating Force | 8N-20N Newtons minimum at a maximum rate of 12.5mm per minute | Insertion force testing machine | No physical damage | Pass | Pass | Pass | Pass | Pass | P | |
| 三. 環境特性測試 ENVIRONMENTAL TEST | | | | | | | | | | | |
| 序號 NO. | 測試項目 Testing Item | 測試條件 Testing Conditions | 測試設備 Testing Equipment | 規格 SPEC | 測試記錄 Testing Result | | | | | 判定 Judge | |
| | | | | | 1 | 2 | 3 | 4 | 5 | Pass | Fail |
| 1 | Humidity—Temperature cycle | Temperature: 40±2°C Duration :168H | PROGRAM CONTROLLED TEMP. & HUMIDITY CHAMBER | No physical damage | Pass | Pass | Pass | Pass | Pass | P | |
| 2 | Heat test | Temperature: 70±2°C Duration :168H | OVEN | No physical damage | Pass | Pass | Pass | Pass | Pass | P | |

| | | | | | | | | | | | |
|---|--------------------------|--|--|--------------------|------|------|------|------|------|---|--|
| 3 | Cold test | Temperature: -25 ±3°C Duration :168H | PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER | No physical damage | Pass | Pass | Pass | Pass | Pass | P | |
| 4 | Temperature cycling test | Temperature: 70—25°C Duration:5 cycle | PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER | No physical damage | Pass | Pass | Pass | Pass | Pass | P | |

四.物理測試 PHYSICAL TEST

| 序 NO. | 測試項目 Testing Item | 測試條件 Testing Con di tions | 測試設備 Testing Equipment | 規格 SPEC | 測試記錄 Testing Result | | | | | 判定 Judge | |
|--------------|----------------------|---|-------------------------------------|----------------------|---------------------|------|------|------|------|-------------|------|
| | | | | | 1 | 2 | 3 | 4 | 5 | Pass | Fail |
| 1 | Salt spray test | Temperature: 35±2°C Concentration:5±1 % Duration:12H | SALT SPRAY TESTER | No Oxidation | Pass | Pass | Pass | Pass | Pass | P | |
| 2 | Solder ability test | Temperature: 260 ± 5°C Duration:10 ±1 sec | OVEN | NO physical damage | Pass | Pass | Pass | Pass | Pass | P | |
| 3 | Solder ability test | Temperature: 260 ±10 C Duration :10 ±1 sec | CONTROLLED CONSTANT-TEMP SOLDER POT | Soldering area 三 95% | Pass | Pass | Pass | Pass | Pass | P | |
| 判定 Result | | <input checked="" type="checkbox"/> 合格(ACCEPT) <input type="checkbox"/> 不合格(REJECT) | | | | | | | | | |

核准(Approver): 欠必鋒

測試(Tester): 但芬



深圳市华联威电子科技有限公司

檢驗報告

首件檢驗
 入庫檢驗
 出貨檢驗
 客退檢驗
 退料檢驗
 其他

2021年12月7日 版次:A1

| 料號 | U573-2145-G63038 | | 制令單號 | / | | 送檢單位 | 工程部 | | 首件製作者 | 裝配 | | | |
|------------------|------------------|----------|--|------|-----------|----------|-----------|-------|---------|----------|-----|-----|----|
| 品名 | TYPE C 母座 | | 客戶代號 | / | | 批 量 | / | | 送檢時間 | / | | | |
| | | | | | | 數 量 | 5PCS | | 確認時間 | / | | | |
| 抽樣標準 | | | <input checked="" type="checkbox"/> 單次 <input type="checkbox"/> 雙次 | | | 抽樣數 | AQL | CRI:0 | MAJ:0.4 | MIN:0.65 | | | |
| MIL-STD-105E(II) | | | <input checked="" type="checkbox"/> 正常 <input type="checkbox"/> 加嚴 <input type="checkbox"/> 減量 | | | (5PCS) | ACC/REJ | 0 | / | / | | | |
| 不良數: | | | CRI (/) | | MAJ (/) | | MIN (/) | | 不良率(%) | | / | | |
| NO. | 檢驗項目 單位:MM/G | 檢測 儀器 | 檢 驗 記 錄 | | | | | 品管判定 | | CRI | MAJ | MIN | 備注 |
| | | | 1 | 2 | 3 | 4 | 5 | AC | RE | | | | |
| 尺 寸 測 量 | 9.30±0.20 | D | 9.36 | 9.35 | 9.34 | 9.35 | 9.37 | √ | | | | | |
| | 3.50±0.20 | D | 3.56 | 3.58 | 3.57 | 3.59 | 3.58 | √ | | | | | |
| | 1.00±0.20 | D | 1.06 | 1.05 | 1.04 | 1.06 | 1.04 | √ | | | | | |
| | 1.85±0.20 | D | 1.89 | 1.90 | 1.88 | 1.87 | 1.88 | √ | | | | | |
| | 2.20±0.20 | D | 2.26 | 2.25 | 2.23 | 2.21 | 2.20 | √ | | | | | |
| | 1.30±0.20 | D | 1.35 | 1.33 | 1.32 | 1.34 | 1.33 | √ | | | | | |
| | 7.46±0.20 | D | 7.49 | 7.48 | 7.46 | 7.48 | 7.46 | √ | | | | | |
| | 7.20±0.20 | D | 7.23 | 7.26 | 7.25 | 7.24 | 7.26 | √ | | | | | |
| | 8.34±0.20 | D | 8.34 | 8.36 | 8.37 | 8.34 | 8.36 | √ | | | | | |
| | 2.56±0.20 | D | 2.59 | 2.60 | 2.64 | 2.60 | 2.62 | √ | | | | | |
| | 6.69±0.20 | D | 6.72 | 6.68 | 6.69 | 6.70 | 6.68 | √ | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

檢驗依據: 《工程圖紙》 《檢驗規範》 《承認書》 樣品 其它

檢測儀器:A游標卡尺 B千分尺 C厚薄儀 D投影鏡 E放大鏡 F顯微鏡 G錫爐 H插拔力器 I間位尺 J其它

品保判定: 合格Accept 退貨Reject 特采Waive 挑選Sort

核准: 欠必鋒

審核: 刘联英

檢驗員: 但芬

电镀报告表

| | | | | | |
|-----------------------------|----------|---------------|----|-----------|----------|
| 品名:TYPE C 母座(端子) | | 版次:A.0 | | | |
| 电镀规格:Ni40u",Sn40u",Au G/Fu" | | 日期:2021-08-25 | | | |
| 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) | | | | | |
| 数据 | 测试标准 | 实测值 | 判定 | 测试日期 | 测试时间 |
| 1 | 40u"MIN | 60.5u" | OK | 2021/8/25 | 10:20:15 |
| 2 | 40u"MIN | 58.3u" | OK | 2021/8/25 | 10:20:17 |
| 3 | 40u"MIN | 67.5u" | OK | 2021/8/25 | 10:20:19 |
| 4 | 40u"MIN | 62.4u" | OK | 2021/8/25 | 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 | 40u"MIN | 115.3u" | OK | 2021/8/25 | 10:25:10 |
| 2 | 40u"MIN | 124.7u" | OK | 2021/8/25 | 10:25:12 |
| 3 | 40u"MIN | 118.9u" | OK | 2021/8/25 | 10:25:14 |
| 4 | 40u"MIN | 112.4u" | OK | 2021/8/25 | 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 | 2021/8/25 | 10:30:32 |
| 2 | 0.5u"MIN | 0.53u" | OK | 2021/8/25 | 10:30:34 |
| 3 | 0.5u"MIN | 0.58u" | OK | 2021/8/25 | 10:30:36 |
| 4 | 0.5u"MIN | 0.59u" | OK | 2021/8/25 | 10:30:38 |

核准: 欠必锋

审核: 刘联英

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-1216 |
| METHOD | NEUTRL SALT SPRAY CORROSION TEST | REF | |
| 客户 | / | 试验起始日期 | 2021年12月06日 20:00 时起 |
| | | DATE | 2021年12月07日 08:00 时止 |
| 样品名称 | TYPE C 母座 | 试验数量 | 5PCS |
| P/N | U573-2145-G63038 | | |

试验条件 (TEST CONDITION)

- 1、盐水溶解 (SALT SOLUTION: 浓度 $50 \pm 10\text{g/L}$, PH值6.5-7.2).
- 2、试验室温度 (TEMP. IT THE SPRAY DHAMBR): $35 \pm 1^\circ\text{C}$.
- 3、盐水桶温度 (TEMP. OF SALE SOL' N TANK): $35 \pm 1^\circ\text{C}$.
- 4、压力桶温度 (TEMP. OF SAR SUPPLIERY): $47 \pm 1^\circ\text{C}$.
- 5、试验室相对湿度 (R. H IN THE CHAMBER) 85%.
- 6、压缩空气压力 (COMPRESSED AIR PRESSURE): $1.00 \pm 0.01\text{Kg/cm}^2$.
- 7、样品放置位置 (SPECIMEN SUPPORTED ANGLE): 尼龙绳吊挂 $70^\circ - 90^\circ$.
- 8、喷雾收集量 (COLLECT RATE OF SALT SOL' N) $1-2\text{mL}/(8 \text{ cm}^2\text{hr})$.
- 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: 刘联英

试验员: 但芬

Materials Information

PRODUCT NAME: LCP M-401 BK

COMPOSITION/INFORMATION OF LCP M-401 BK

SUBSTANCE/MIXTURE: Mixture

SYNONYM(S): Aromatic Liquid Crystal Polymer(LCP)

| 品名 | 比例 | 用途 |
|------------|-------|------------|
| 德众泰 LCP 树脂 | 0.565 | 构成材料主要成分 |
| 抗氧化剂 | 0.002 | 抗氧化 |
| 科莱恩热稳定剂 | 0.003 | 增加高温稳定性 |
| 黑色母 | 0.01 | 着色 |
| 滑石粉 | 0.2 | 增强剂, 增加流动性 |
| 玻纤 | 0.22 | 增强 |

NAME OF COMPANY: DZT Engineering Plastics Tech. Co.,Ltd

ADDRESS: Building 2 Zhichong Industrial Park, Hi-Tech Zone, Jiangmen City,
Guangdong Province, China

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鉅鼎銅材廠檢驗報告單

| | | | | | | | | | | |
|------------------------------|--------------------------|----------------------|--------------------------------|------------------------|-----------------------------------|-----------------------------|--------------------------------------|-----------------------|------|----|
| 公司名稱 Customer | 鉅鼎銅材廠檢驗報告單 | | | | 重量 Weight(kg) | 1078 | 出貨日期 Date | 2021/11/23 | | |
| 品名 Article | 標準 Standard No | | | | 尺寸 Dimension | | 狀態 Tenper | 銅卷編號 Coil No | | |
| C2680 | JISH3100:2017 | | | | 0.18*400 | | EH | 1021-C-08 | | |
| 化學成分Chemical Compositions(%) | | | | | | | | | | |
| 元素 Element | Cu % | Zn% | Pb% | Fe% | \ | \ | \ | \ | 化學成分 | 雜質 |
| 規範 Spec | 64.0-68.0 | 餘量 | <0.05 | <0.05 | \ | \ | \ | \ | 合格 | 合格 |
| 實測 Actual | 64.32 | 餘量 | 0.0036 | 0.0136 | \ | \ | \ | \ | 合格 | 合格 |
| 機械性質Mechanical Properties | | | | | | | | | | |
| 項目 Item | 結晶粒度 Grain Size Mm | 硬度 Hardness Hv | 抗拉強度 TensionStrength Mpa | 伸長度 Elongation % | 導電率 Electrical Conduc %IACS | 彎曲試驗 Bending Test 180 | 表面粗度 Surface Roughness Ra(u m) | 彎曲度 Camber mm/n | | |
| 規範MAX Spec | \ | 170-190 | 490-610 | \ | \ | \ | \ | \ | | |
| 實測 Actual | \ | 178 | 574 | 5 | \ | \ | \ | \ | | |

品質部

