

承 认 书

Approval Sheet

客户 (Customer): /

客户料号 (Cus .P/N): /

华联威料号 (HLW P/N): JK1-026-421R

品名规格 (PronameSpec): 1X3 AUDIO JACK 无后盖

送样日期 (Delivery Date): 2021/11/18

承认日期 (Acknowledge Date): 2021/11/18

| | | | |
|---|------------------|---------------------------|--------------------|
| 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. | | | |
| 业 务 部 Sales Dept | 品 管 部 QC Dept | 工 程 部 Engineering Dept | 核 准 Checked By |
| 将成英 | 欠必峰 | 覃裕华 | 唐竹君 |

地址: 深圳市龙华区观澜街道桂香社区观澜桂花路 307 号

TEL: 0755-28888886 28888866

hua@hlwconn.com

[Http://www.hlwconn.com](http://www.hlwconn.com)



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F

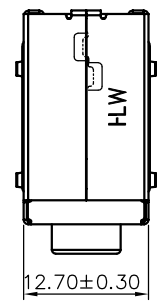
E

D

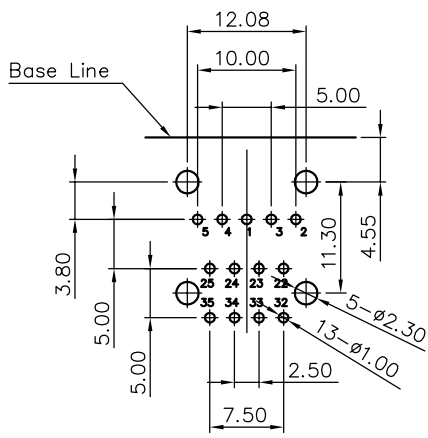
C

B

A



12.70±0.30

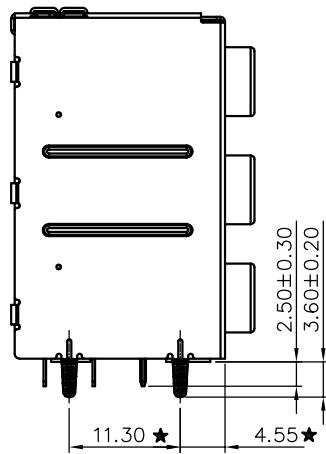


RECOMMEND P.C.B. LAYOUT
BOTTOM VIEW

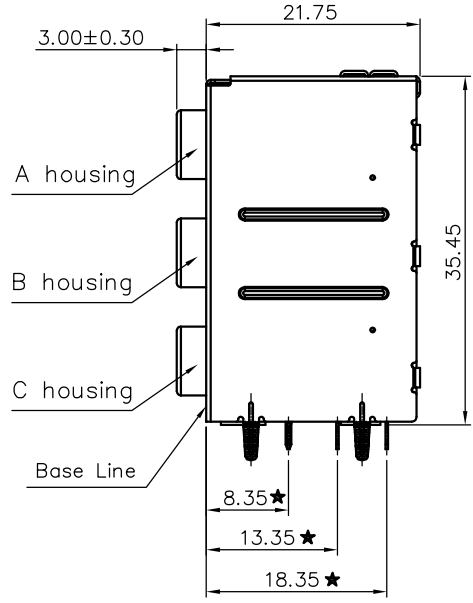
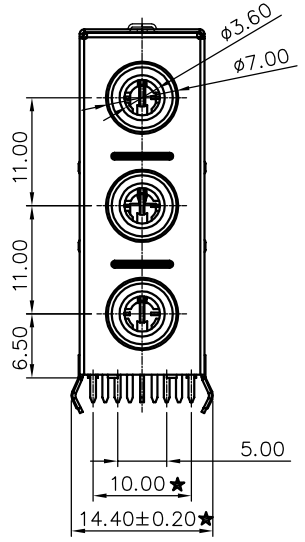
材质说明:
PBT胶圈: (红、蓝、绿、黑色) 牌号 (邦奇)
SPCC外壳: 牌号 (天硕)
PBT胶芯/后塞: 牌号 (邦奇)
C2680端子: 牌号 (精诚)
SK7地线: 牌号 (荣鑫)

| REV. | ECN.NO. | APPD. |
|------|---------|-----------|
| A | / | Lijinfeng |
| B | / | weihong |

MATERIALS
 1.HOUSING : PBT.
 2.BOTTOM COVER: PBT
 3.CONTACT : COPPER ALLOY.T=0.25mm
 50u' MIN BRIGHT TIN PLATING ON ALL AREA
 4.SHEEL : SPCC,T=0.30mm
 50u' MIN NICKEL PLATING ON ALL AREA
SPECIFICATION
 1.CURRENT RATING : 1.0 AMP. MAX.
 2.DIELECTRIC WITHSTANDING : AC 500V/min R.M.S.
 3.INSULATION RESISTANCE : 100MΩ min. AT 100V DC.
 4.CONTACT RESISTANCE : 50mΩ MAX.
 5.OPERATING TEMPERATURE : -25°C TO +85°C.
 6.DURABILITY : 1500 CYCLES.
 7.MATING FORCE : 3kgs MAX
 8.UNMATING FORCE : 0.3~3.0kgs
 9.MAX PROCESSING TEMPERATURE :
 60 SECONDS IN 230°C AND 10 SECONDS IN 260°C

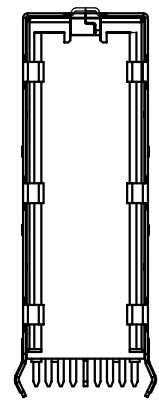


2.50±0.30
3.60±0.20

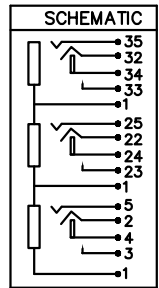
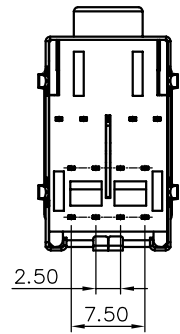


A housing
B housing
C housing
Base Line

| A Housing | B Housing | C Housing | D Housing |
|------------|-------------|-----------|-----------|
| Blue(284C) | Green(577C) | Red(701C) | Black |



JK1-026-421R
 4: bright tin
 1: Black
 2: PBT



| TOLERANCE UNLESS OTHERWISE SPECIFIED | | HLW 深圳市华联威电子科技有限公司 HUA LIAN WEI TECHNOLOGY ELECTRONICS CO;LTD. | | | | |
|--------------------------------------|------------|--|---------------------------|----------|-------|------|
| .XXX ±0.10 | .XX ±0.20 | .X ±0.30 | .X' ±3' | .XX' ±2' | | |
| APPROVED | | PART NAME: | 1X3 Audio Jack 无后盖 顶部增加凸台 | | | |
| CHECKED | | PART No: | JK1-026-421R | | C | |
| DRAWN | weihong | PROJECTION: | UNIT: | SCALE | SHEET | REV. |
| DATE | 2023.03.15 | | mm | 1:1 | 10F1 | B |



| TEST ITEM | | REQUIREMENT | PROCEDURE |
|-----------------------------------|---------------------------------|--|---|
| 1 | Examination of Product | Meets requirements of product drawing. No physical damage. | Visual inspection. |
| 2 | Operating Temperature | -25°C to 85 °C | |
| 3 | Storage Temperature | -25°C to 85 °C | |
| ELECTRICAL REQUIREMENT | | | |
| 4 | Rating Voltage | 12VAC max | on any signal pin with respect to the shield |
| 5 | Rating Current | 1.0 A per contact | 55°C ,maximum ambient 85°C ,maximum temperature change (ANSI/EIA 364-70,TP-70) |
| 6 | Contact Resistance | [50] m Ohm Max | Subject mated contacts assembled in housing to 20mV Max open circuit at 100mA Max. EIA-364-23. |
| 7 | Dielectric withstanding Voltage | No flashover ,no creeping discharge, no breakdown | 500 VAC for 1 minute between adjacent terminals. EIA 364-20 |
| 8 | Insulation Resistance | [100] M Ohm Min. | Mated connector with a voltage of 500V DC for 1 minutes between adjacent terminals EIA 364-21 |
| 9 | Temperature Rising | 30°C Max. Under loaded rating current | Contact series-wired, apply test current of loaded rating current to the circuit, and measure the temperature rising by probing on soldered areas of contacts, after the temperature becomes stabilized deduct ambient temperature from the measured value. |
| Mechanical Requirement | | | |
| 10 | Connector Mating Force | <u>3.0 kgf Max</u> | Mating the connector with standard audio plug at a rate of 12.7 mm per minute EIA 364-13 |
| 11 | Connector Unmating Force | <u>0.30~3.0 kgf</u> | Unmating the connector with standard audio plug at a rate of 12.7 mm per minute EIA 364-13 |
| 12 | Durability | Visual Inspection-No physical damage LLCR-50 mΩ max per contact initial,100 mΩ after 1500 insertions. | Insertion and extraction with plug up to 1500 cycles at a maximum rate of 200 cycles per hour. EIA 364-09 |
| 13 | Vibration | No discontinuity at 1 μ s or longer(each contact) when continuity is tested per ANSI/EIA-364-46 | ANSI/EIA-364-28,Condition III,Method 5A,15 minute/axis |
| 14 | Mechanical Shock | No discontinuity at 1 μ s or longer(each contact) when continuity is tested per ANSI/EIA-364-46 | ANSI/EIA-364-27 Condition A(specified pulse) |
| 15 | Solder ability | At least 95% of the immersed area shall be covered with new solder | 1)Temperature of fused solder: 245+5°C . 2)Dipping time:10+1s EIA 364-52 |
| Environmental Requirements | | | |
| 16 | Resistance to Solder Heat | Forming resin shall not be distorted, and terminations shall not be separated. | 1) Depth of dipping termination: the distance between the mounting surface and solder surface shall be 1 mm to 2mm. 2)Temperature:245+5°C . 3) Dipping time:10+1s Socket EIA 364-56 |



深圳市华联威电子科技有限公司

JACK系列產品SPEC

| TEST ITEM | | REQUIREMENT | PROCEDURE |
|-----------|-------------------------------|---|--|
| 17 | Thermal Shock | No physical damage to the samples and LLCR-50 mΩ max per contact | Mated connectors exposed to 10 cycles between - 55°C to 85°C, 30 minutes duration at both temperature extremes EIA 364-32 |
| 18 | Steady State Humidity | No physical damage to the samples and can pass the Dielectric Withstanding Voltage & Insulation Resistance | Expose mated connectors to a temperature of 40±2°C with relative humidity of 90-95% for 168 hours Min(seven complete cycles). Remove surface moisture and air dry for 24 hours. prior to measurement. EIA 364-31 |
| 19 | Temperature Life (Heat Aging) | [100] M Ohm Min. (insulation resistance) 30 m ohms Max (contact resistance) | ANSI/EIA-364-17 Condition 4 105°C for 250 hours,Method A,mated |
| 20 | Salt Spray | Visual Inspection-No physical damageLLCR-50 mΩ max per contact | Mated connector expose to 5% salt concentration for 12 hours at temperature 35+2 °C .After the test specimens shall be washed with running water and dried naturally EIA |
| 21 | Colour | Colour Atla | 284C(Blue) 577C(Green) 701C(Red) |
| 22 | Plating | Contact: <u>Cu:40u".,Sn:40u".,Ni:40u"</u> Shell: <u>Cu:40u".,Ni:40u"</u> Ground: <u>Cu:40u".,Ni:40u".,Sn:40u"</u> | |

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。 | | | | | | | | | |

審核：皮洪斌

制定：Hexing



測試報告

TEST REPORT

| 產品名稱 Part Name | AUDIO JACK 13新电路 1.0mm B款,PBT黑色无后盖 | 測試日期 Date of Testing | 2021.11.17 2021.11.18 | 報告編號 Report NO. | MD20211118-01 | | | | | | |
|-----------------------------|---------------------------------------|--|--|---------------------------------|------------------------------------|------|------|------|------|---------|------|
| 產品型號 Part Name | JK1-026-421R | 樣品數量 Quantity | 5PCS | 測試環境 Measuring Environment | 濕度Temp:18~21°C 相對濕度R.H.:49%~57% | | | | | | |
| 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 | 50 mΩ Max | Pass | Pass | Pass | Pass | Pass | 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:500VAC 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: 1500 cycles | LIFE TESTER FOR CONNECTOR | No physical damage | Pass | Pass | Pass | Pass | Pass | P | |
| 2 | Mating Force | 3.0kgf Max at a rare of 12.7mm(0.5") per minute | Insertion force testing machine | No physical damage | Pass | Pass | Pass | Pass | Pass | P | |
| 3 | Un-Mating Force | 0.3~3.0kgf at a rare of 12.7mm(0.5") 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 Humidity: 90~95% Duration:168H | PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER | No physical damage | Pass | Pass | Pass | Pass | Pass | P | |
| 2 | Heat test | Temperature: 85±2°C Duration:168H | OVEN | No physical damage | Pass | Pass | Pass | Pass | Pass | P | |

| | | | | | | | | | | | |
|---|--------------------------|--|--|--------------------|------|------|------|------|------|---|--|
| 3 | Cold test | Temperature: $-25 \pm 3^{\circ}\text{C}$ Duration:168H | PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER | No physical damage | Pass | Pass | Pass | Pass | Pass | P | |
| 4 | Temperature cycling test | Temperature: $70 \sim -25^{\circ}\text{C}$ 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 | Salt spray test | Temperature: $35 \pm 2^{\circ}\text{C}$ Concentration: $5 \pm 1\%$ Duration:12H | SALT SPRAY TESTER | No Oxidation | Pass | Pass | Pass | Pass | Pass | P | |
| 2 | Resistance to soldering heat test | Temperature: $245 \pm 5^{\circ}\text{C}$ Duration: $10 \pm 1\text{sec}$ | Tin Furnace | No physical damage | Pass | Pass | Pass | Pass | Pass | P | |
| 3 | Solder ability test | Temperature: $245 \pm 5^{\circ}\text{C}$ Duration: $10 \pm 1\text{sec}$ | CONTROLLED CONSTANT-TEMP SOLDER POT | Soldering area $\geq 95\%$ | Pass | Pass | Pass | Pass | Pass | P | |
| 判定 Result | | <input checked="" type="checkbox"/> 合格 (ACCEPT) <input type="checkbox"/> 不合格 (REJECT) | | | | | | | | | |

審核(Approver): 汪志根

測試(Tester): 陈晓宇

HLW 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11月18日 版次:A0

| 料號 | JK1-026-421R | | 制令單號 | / | | 送檢單位 | 工程 | | 首件製作者 | 裝配 | | | |
|------------------------------------|--------------------|----------|--|-------|-------|----------|---------|-------|---------|----------|-----|-----|----|
| 品名 | AUDIO JACK 1*3 无后盖 | | 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 | 12.70±0.30 | D | 12.72 | 12.71 | 12.72 | 12.73 | 12.74 | √ | | | | | |
| | 11.00±0.20 | D | 11.05 | 11.04 | 11.05 | 11.06 | 11.07 | √ | | | | | |
| | 11.00±0.20 | D | 11.06 | 11.01 | 11.03 | 11.06 | 11.02 | √ | | | | | |
| | 6.50±0.20 | D | 6.52 | 6.51 | 6.54 | 6.52 | 6.53 | √ | | | | | |
| | 5.00±0.20 | D | 5.01 | 5.02 | 5.01 | 5.03 | 5.05 | √ | | | | | |
| | 10.00±0.20 | D | 10.01 | 10.02 | 10.03 | 10.02 | 10.04 | √ | | | | | |
| | 14.80±0.35 | A | 14.81 | 14.82 | 14.80 | 14.81 | 14.84 | √ | | | | | |
| | 11.30±0.20 | D | 11.32 | 11.31 | 11.33 | 11.31 | 11.34 | √ | | | | | |
| | 4.55±0.20 | D | 4.57 | 4.56 | 4.55 | 4.56 | 4.53 | √ | | | | | |
| | 2.50±0.20 | D | 2.52 | 2.51 | 2.53 | 2.54 | 2.51 | √ | | | | | |
| | 21.75±0.20 | D | 21.75 | 21.76 | 21.73 | 21.76 | 21.75 | √ | | | | | |
| | 35.45±0.20 | D | 35.47 | 35.46 | 35.43 | 35.42 | 35.44 | √ | | | | | |
| | 8.35±0.20 | A | 8.35 | 8.36 | 8.37 | 8.36 | 8.38 | √ | | | | | |
| | 18.35±0.20 | D | 18.34 | 18.35 | 18.36 | 18.30 | 18.34 | √ | | | | | |
| | 2.50±0.30 | D | 2.52 | 2.50 | 2.51 | 2.53 | 2.51 | √ | | | | | |
| 3.60±0.20 | D | 3.63 | 3.61 | 3.65 | 3.62 | 3.60 | √ | | | | | | |

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 汪志根 審 核 / 檢驗員 INSPBY 陈晓宇

保存期限:三年

保存部門:品保部

INSPBY

QR-M-003



电镀报告表

| 品名:1X3 AUDIO JACK 无后盖(端子) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------|--------|----|------------|----------|----|------|------|---|---------|--------|----|------------|----------|---|---------|--------|----|------------|----------|---|---------|--------|----|------------|----------|---|---------|--------|----|------------|----------|
| 电镀规格:Ni 30u"MIN, Sn 50u"MIN | 日期:2021/10/10 | 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) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"><thead><tr><th>数据</th><th>测试标准</th><th>实测值</th><th>判定</th><th>测试日期</th><th>测试时间</th></tr></thead><tbody><tr><td>1</td><td>30u"MIN</td><td>58.2u"</td><td>OK</td><td>2021/10/10</td><td>13:50:12</td></tr><tr><td>2</td><td>30u"MIN</td><td>60.7u"</td><td>OK</td><td>2021/10/10</td><td>13:50:14</td></tr><tr><td>3</td><td>30u"MIN</td><td>55.4u"</td><td>OK</td><td>2021/10/10</td><td>13:50:16</td></tr><tr><td>4</td><td>30u"MIN</td><td>61.5u"</td><td>OK</td><td>2021/10/10</td><td>13:50:18</td></tr></tbody></table> | | | 数据 | 测试标准 | 实测值 | 判定 | 测试日期 | 测试时间 | 1 | 30u"MIN | 58.2u" | OK | 2021/10/10 | 13:50:12 | 2 | 30u"MIN | 60.7u" | OK | 2021/10/10 | 13:50:14 | 3 | 30u"MIN | 55.4u" | OK | 2021/10/10 | 13:50:16 | 4 | 30u"MIN | 61.5u" | OK | 2021/10/10 | 13:50:18 |
| 数据 | 测试标准 | 实测值 | 判定 | 测试日期 | 测试时间 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 30u"MIN | 58.2u" | OK | 2021/10/10 | 13:50:12 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 30u"MIN | 60.7u" | OK | 2021/10/10 | 13:50:14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 30u"MIN | 55.4u" | OK | 2021/10/10 | 13:50:16 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 30u"MIN | 61.5u" | OK | 2021/10/10 | 13:50:18 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2、表层电镀测试 (Sn) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"><thead><tr><th>数据</th><th>测试标准</th><th>实测值</th><th>判定</th><th>测试日期</th><th>测试时间</th></tr></thead><tbody><tr><td>1</td><td>50u"MIN</td><td>63.3u"</td><td>OK</td><td>2021/10/10</td><td>14:10:36</td></tr><tr><td>2</td><td>50u"MIN</td><td>62.6u"</td><td>OK</td><td>2021/10/10</td><td>14:10:38</td></tr><tr><td>3</td><td>50u"MIN</td><td>66.7u"</td><td>OK</td><td>2021/10/10</td><td>14:10:40</td></tr><tr><td>4</td><td>50u"MIN</td><td>63.1u"</td><td>OK</td><td>2021/10/10</td><td>14:10:42</td></tr></tbody></table> | | | 数据 | 测试标准 | 实测值 | 判定 | 测试日期 | 测试时间 | 1 | 50u"MIN | 63.3u" | OK | 2021/10/10 | 14:10:36 | 2 | 50u"MIN | 62.6u" | OK | 2021/10/10 | 14:10:38 | 3 | 50u"MIN | 66.7u" | OK | 2021/10/10 | 14:10:40 | 4 | 50u"MIN | 63.1u" | OK | 2021/10/10 | 14:10:42 |
| 数据 | 测试标准 | 实测值 | 判定 | 测试日期 | 测试时间 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 50u"MIN | 63.3u" | OK | 2021/10/10 | 14:10:36 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 50u"MIN | 62.6u" | OK | 2021/10/10 | 14:10:38 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 50u"MIN | 66.7u" | OK | 2021/10/10 | 14:10:40 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 50u"MIN | 63.1u" | OK | 2021/10/10 | 14:10:42 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

核准: 欠必锋

审核: 刘联英

检验员: 但芬



深圳市华联威电子科技有限公司
电镀报告表

| 品名: 1X3 AUDIO JACK 无后盖(外壳) | | 版次:A.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------|--------|----|------------|----------|----|------|------|---|---------|--------|----|------------|----------|---|---------|--------|----|------------|----------|---|---------|--------|----|------------|----------|---|---------|--------|----|------------|----------|
| 电镀规格:Cu:50u", Ni:50u"MIN | 日期:2021/10/10 | 页次:1/1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 厂商:金和源 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 测试设备:CMI X-射线膜厚测试仪 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1、底层电镀测试(Cu) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"><thead><tr><th>数据</th><th>测试标准</th><th>实测值</th><th>判定</th><th>测试日期</th><th>测试时间</th></tr></thead><tbody><tr><td>1</td><td>50u"min</td><td>65.3u"</td><td>OK</td><td>2021/10/10</td><td>19:55:05</td></tr><tr><td>2</td><td>50u"min</td><td>68.5u"</td><td>OK</td><td>2021/10/10</td><td>19:55:57</td></tr><tr><td>3</td><td>50u"min</td><td>66.2u"</td><td>OK</td><td>2021/10/10</td><td>19:56:48</td></tr><tr><td>4</td><td>50u"min</td><td>65.6u"</td><td>OK</td><td>2021/10/10</td><td>19:57:31</td></tr></tbody></table> | | | 数据 | 测试标准 | 实测值 | 判定 | 测试日期 | 测试时间 | 1 | 50u"min | 65.3u" | OK | 2021/10/10 | 19:55:05 | 2 | 50u"min | 68.5u" | OK | 2021/10/10 | 19:55:57 | 3 | 50u"min | 66.2u" | OK | 2021/10/10 | 19:56:48 | 4 | 50u"min | 65.6u" | OK | 2021/10/10 | 19:57:31 |
| 数据 | 测试标准 | 实测值 | 判定 | 测试日期 | 测试时间 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 50u"min | 65.3u" | OK | 2021/10/10 | 19:55:05 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 50u"min | 68.5u" | OK | 2021/10/10 | 19:55:57 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 50u"min | 66.2u" | OK | 2021/10/10 | 19:56:48 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 50u"min | 65.6u" | OK | 2021/10/10 | 19:57:31 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2、表层电镀测试(Ni) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"><thead><tr><th>数据</th><th>测试标准</th><th>实测值</th><th>判定</th><th>测试日期</th><th>测试时间</th></tr></thead><tbody><tr><td>1</td><td>50u"min</td><td>67.3u"</td><td>OK</td><td>2021/10/10</td><td>19:58:12</td></tr><tr><td>2</td><td>50u"min</td><td>66.6u"</td><td>OK</td><td>2021/10/10</td><td>19:59:04</td></tr><tr><td>3</td><td>50u"min</td><td>66.2u"</td><td>OK</td><td>2021/10/10</td><td>20:01:44</td></tr><tr><td>4</td><td>50u"min</td><td>68.3u"</td><td>OK</td><td>2021/10/10</td><td>20:02:36</td></tr></tbody></table> | | | 数据 | 测试标准 | 实测值 | 判定 | 测试日期 | 测试时间 | 1 | 50u"min | 67.3u" | OK | 2021/10/10 | 19:58:12 | 2 | 50u"min | 66.6u" | OK | 2021/10/10 | 19:59:04 | 3 | 50u"min | 66.2u" | OK | 2021/10/10 | 20:01:44 | 4 | 50u"min | 68.3u" | OK | 2021/10/10 | 20:02:36 |
| 数据 | 测试标准 | 实测值 | 判定 | 测试日期 | 测试时间 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 50u"min | 67.3u" | OK | 2021/10/10 | 19:58:12 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 50u"min | 66.6u" | OK | 2021/10/10 | 19:59:04 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 50u"min | 66.2u" | OK | 2021/10/10 | 20:01:44 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 50u"min | 68.3u" | OK | 2021/10/10 | 20:02:36 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

核准: 欠必锋

检验员: 但芬



深圳市华联威电子科技有限公司

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-1344 |
| METHOD | NEUTRL SALT SPRAY CORROSION TEST | REF | |
| 客户 | | 试验起始日期 | 2021年11月17日 20:00 时起 |
| | | DATE | 2021年11月18日 08:00 时止 |
| 样品名称 | AUDIO JACK 13新电路11.0mm B款, PBT黑色, 铁壳, 无后盖 | 试验数量 | 5PCS |
| P/N | JK1-026-421R | QTY | |
| 试验条件 (TEST CONDDITION) | | | |
| 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) 1-2mL/(8 cm ² 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:汪志根

审核:

试验员:陈晓宇

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



材 质 证 明

兹有我司邦奇塑料科技有限公司为贵司所提供的产品不防火增加级原料 PBT 不防火加纤 20%黑色，由以下物质组成：

物品名称：PBT 不防火加纤黑色 20%

| | |
|---------------|--------|
| 组成物质：PBT 环保树脂 | 60-70% |
| 玻纤 | 20-25% |
| 增韧剂 | 7-9% |
| 润滑剂 | 0.1% |
| 抗氧化剂 | 0.1% |
| 偶联剂 | 0.5% |
| 其它 | 0.3% |
| 黑色母 | 1-2% |

建议成型：

1. 烘干温度 120-140℃
2. 烘干时间 2-4 小时
3. 成型温度 240-260℃

特此证明！

东莞市邦奇塑料科技有限公司



佛山市顺德区天硕贸易有限公司

Foshan Shunde Tianshuo Trade Company Limited

日期: 2021-10-19

编号: FB2110136

| 收货单位PURCHASER: _____ | | | | 产品名称: _____ SPCC-SD | | | | | | | | | | | |
|-------------------------------|-----------------|---------------------------------|--------------------|--------------------------|--------|---------|---------|--------|--------|---------|---------------------------|--------------|----------------|------------|------------|
| 检验标准SPECIFICATION: JIS G 3141 | | | | 检验情况: _____ 合格 | | | | | | | | | | | |
| 产品规格 SPECIFICATION MM | 钢卷号 COIL. NO | 材质牌号 SYMBOL OF QUALITY | 净重 WEIGHT KG | 化学成份CHEMICAL COMPOSITION | | | | | | | 力学性能MECHANICAL PROPERTIES | | | | |
| | | | | Fe % | C % | Mn % | Si % | P % | S % | AI % | 抗拉强度T.S Mpa | 延伸率EL (%) | 屈服强度Y.S Mpa | 杯突 (mm) | 硬度 (HV) |
| 0.30x1250 | DL45657 | SPCC-SD | 7835 | 99 | 0.031 | 0.17 | 0.07 | 0.22 | 0.24 | | 361 | 29 | 259 | | 143 |
| 0.30x1250 | DL45658 | SPCC-SD | 7690 | 99 | 0.032 | 0.16 | 0.07 | 0.21 | 0.22 | | 362 | 30 | 256 | | 141 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

质量控制中心:

审核: 谢和钢

制表人: 胡万银

