

## 承 认 书

Approval Sheet

客户 (Customer): /

客户料号 (Cus .P/N): /

华联威料号 (HLW P/N): U573-2055-G61078

品名规格 (PranameSpec): TYPE C 公头 2.0 (无 EMC 弹片款)

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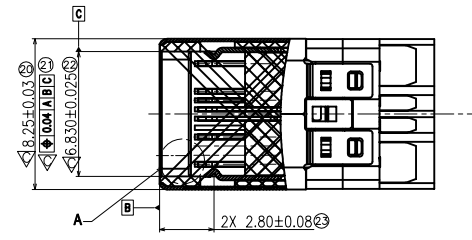
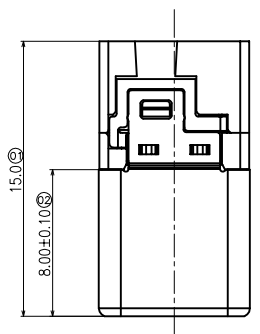
[Http://www.hlwconn.com](http://www.hlwconn.com)

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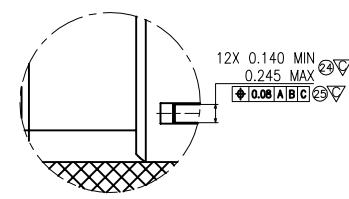
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REV.	ECN.NO.	APPD.
A	/	ZFY



SECTION D-D



DETAIL A  
SCALE 4:1

NOTES:

- 1.MATERIAL:  
 1.1 HOUSING: LCP,UL94V-0  
 1.2 COVER: LCP,UL94V-0  
 1.3 CONTACT: C2680&C7025  
 1.4 SHELL: SUS 304  
 1.5 LATCH: SUS 301

2.PLATING:

- 2.1 CONTACT TERMINAL:  
 0.025~0.75um Au Min. GOLD PLATING ON CONTACT AREA  
 3.0um MATTE Tin PLATING ON SOLDER TAILS  
 2.0um Min. Ni UNDERPLATING OVER ALL  
 2.2 SHELL: 2.0um Min. Ni PLATING OVER ALL.

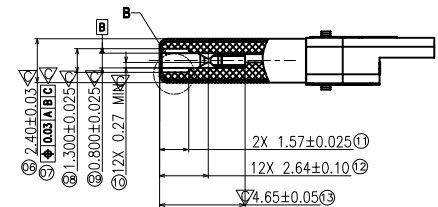
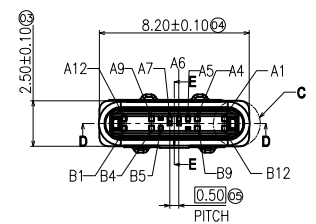
3.ELECTRICAL CHARATERISTICS:

- 3.1 CURRENT RATING: 2.0~9.0A Max.  
 3.2 VOLATAGE RATING: AC 500V  
 3.3 INSULATION RESISTANCE:500MΩ  
 3.4 CONTACT RESISTANCE: 40mΩ  
 3.5 OPERATING TEMPERATURE RANGE: -55°C~+85°C

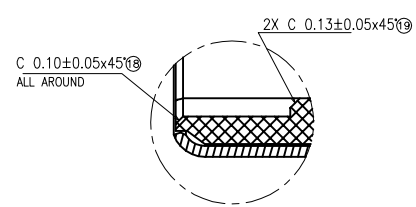
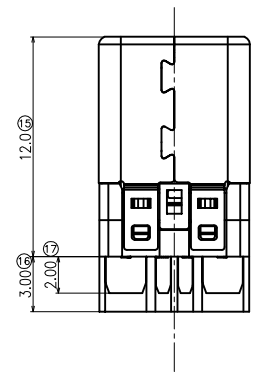
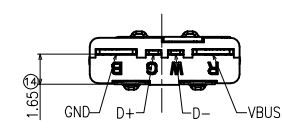
4.MACHINE CHARACTERISTICS:

- 4.1 INSERT FORCE: 1.3±0.5 kg/F  
 4.2 EXTRACT FORCE: 1.3±0.5 kg/F  
 4.3 DURABILITY: 10000 CYSLES AT  
 A MAX RATE OF 200CYCLES PER HOUR

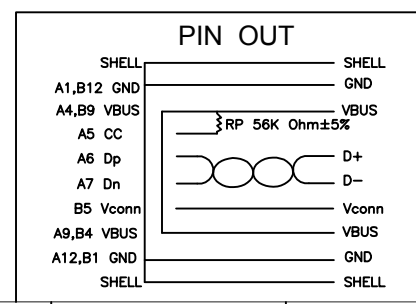
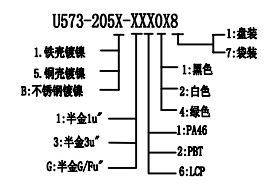
5.EMPHASIS CONTROL SIZE” ”



SECTION E-E



DETAIL B  
SCALE 4:1



TOLERANCE UNLESS OTHERWISE SPECIFIED	
.XXX ±0.15	.X* ±5°
.XX ±0.20	.XX* ±2°
.X ±0.30	
APPROVED	
CHECKED	
DRAWN	ZhangFenYan
DATE	2018.10.10

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

PART NAME: TYPE C公头2.0(无EMC弹片款)

PART No: U573-2055-X61078

PROJECTION:	UNIT:	SCALE:	SHEET:	REV.
	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
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## 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)

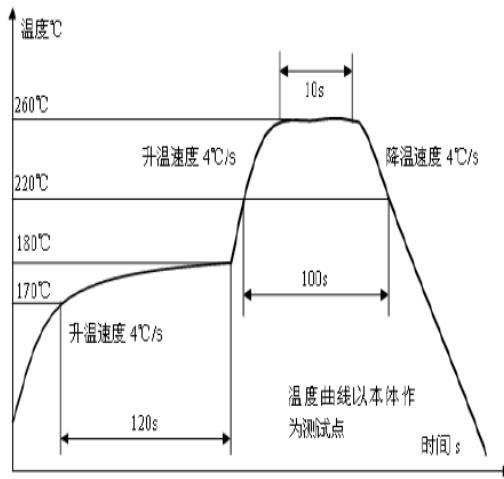
4. 3. 1	Insertion/Withdrawal Force 插入力/拔出力	(EIA-364-13) Insertion and withdrawal speed: 25mm/minute. 插入和拔出的速度为25mm/分	插入力 Insertion 0.50kgf/MIN, 2.0kgf/MAX 拔出力 Withdrawal 0.80kgf/MIN, 2.0kgf/MAX After 10000 cycles 0.6kgf/MIN, 2.0kgf/MAX
4. 3. 2	Durability 寿命测试	(EIA-364-09) 适合USB 3.1 TYPE-C; 用每分钟12.5mm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 <sup>2</sup> {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 <sup>2</sup> {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 <sup>2</sup> (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 <sup>2</sup> (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 <math>-25\pm 3^{\circ}\text{C}</math> 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<math>-25\pm 3^{\circ}\text{C}</math>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 <math>85\pm 2^{\circ}\text{C}</math> 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<math>85\pm 2^{\circ}\text{C}</math>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 <math>+85\pm 2^{\circ}\text{C}</math> 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<math>+85\pm 2^{\circ}\text{C}</math>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 : <math>80^{\circ}\text{C}</math>, 60 Seconds 预热:<math>80^{\circ}\text{C}</math>, 60秒</p> <p>Temperature : <math>260 \pm 5^{\circ}\text{C}</math> 温度:<math>260\pm 5^{\circ}\text{C}</math></p> <p>Immersion duration : <math>10 \pm 1</math> sec. 浸泡时间:<math>10\pm 1</math>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 : <math>350 \pm 10^{\circ}\text{C}</math> 温度:<math>350\pm 10^{\circ}\text{C}</math></p> <p>Immersion duration : <math>3.5\pm 0.5</math> sec. 浸泡时间:<math>3.5\pm 0.5</math>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 公头 2.0	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	U573-2055-G61078	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%						
<b>一. 電性測試 ELECTRICAL TEST</b>											
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	
<b>二. 機械特性測試 MECHANICAL TEST</b>											
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	
<b>三. 環境特性測試 ENVIRONMENTAL TEST</b>											
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. & HUMIDTY 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): 欠必锋

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	U573-2055-G61078		制令單號	/		送檢單位	工程部		首件製作者	裝配			
品名	TYPE C 公头2.0		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	15.0±0.30	D	15.06	15.08	15.06	15.05	15.07	√					
	8.00±0.10	D	8.06	8.04	8.05	8.07	8.06	√					
	8.20±0.10	D	8.26	8.24	8.25	8.24	8.25	√					
	2.50±0.10	D	2.53	2.55	2.56	2.54	2.56	√					
	12.0±0.30	D	12.06	12.05	12.04	12.03	12.04	√					
	3.00±0.20	D	3.06	3.04	3.05	3.07	3.06	√					
	2.00±0.20	D	2.06	2.08	2.10	2.09	2.10	√					

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 公头2.0 (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

## 电镀报告表

品名:TYPE C 公头2.0 (外壳)		版次:A.0																																	
电镀规格:Ni:50u" min		日期:2021-9-14		页次:1/1																															
厂商:金和源																																			
测试设备:CMI X-射线膜厚测试仪																																			
1、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>55.3u"</td><td>OK</td><td>2021/9/14</td><td>10:42:14</td></tr><tr><td>2</td><td>50u"min</td><td>57.6u"</td><td>OK</td><td>2021/9/14</td><td>10:42:16</td></tr><tr><td>3</td><td>50u"min</td><td>56.4u"</td><td>OK</td><td>2021/9/14</td><td>10:42:18</td></tr><tr><td>4</td><td>50u"min</td><td>52.5u"</td><td>OK</td><td>2021/9/14</td><td>10:42:20</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	55.3u"	OK	2021/9/14	10:42:14	2	50u"min	57.6u"	OK	2021/9/14	10:42:16	3	50u"min	56.4u"	OK	2021/9/14	10:42:18	4	50u"min	52.5u"	OK	2021/9/14	10:42:20
数据	测试标准	实测值	判定	测试日期	测试时间																														
1	50u"min	55.3u"	OK	2021/9/14	10:42:14																														
2	50u"min	57.6u"	OK	2021/9/14	10:42:16																														
3	50u"min	56.4u"	OK	2021/9/14	10:42:18																														
4	50u"min	52.5u"	OK	2021/9/14	10:42:20																														

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 公头2.0(无EMC弹片款)	试验数量	5PCS
P/N	U573-2055-G61078		

### 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

SECTION IN CHARGE: Quality Assurance Department

TEL/FAX: +86-750-3689920/+86-750-3689921

EMERGENCY TEL: +86-750-3689708





# 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

