

承 认 书

Approval Sheet

客户 (Customer): /

客户料号 (Cus .P/N): /

华联威料号 (HLW P/N): U573-441B-G61018

品名规格 (PronameSpec): TYPE C 3.1 夹板脚长 1.5

送样日期 (Delivery Date): 2022/03/21

承认日期 (Acknowledge Date): 2022/03/21

Approved No:		客 户 Customer	
采 购 部 Purchasing Dept	品 质 部 QC Dept	工 程 部 Engineering Dept	确 认 Approved By
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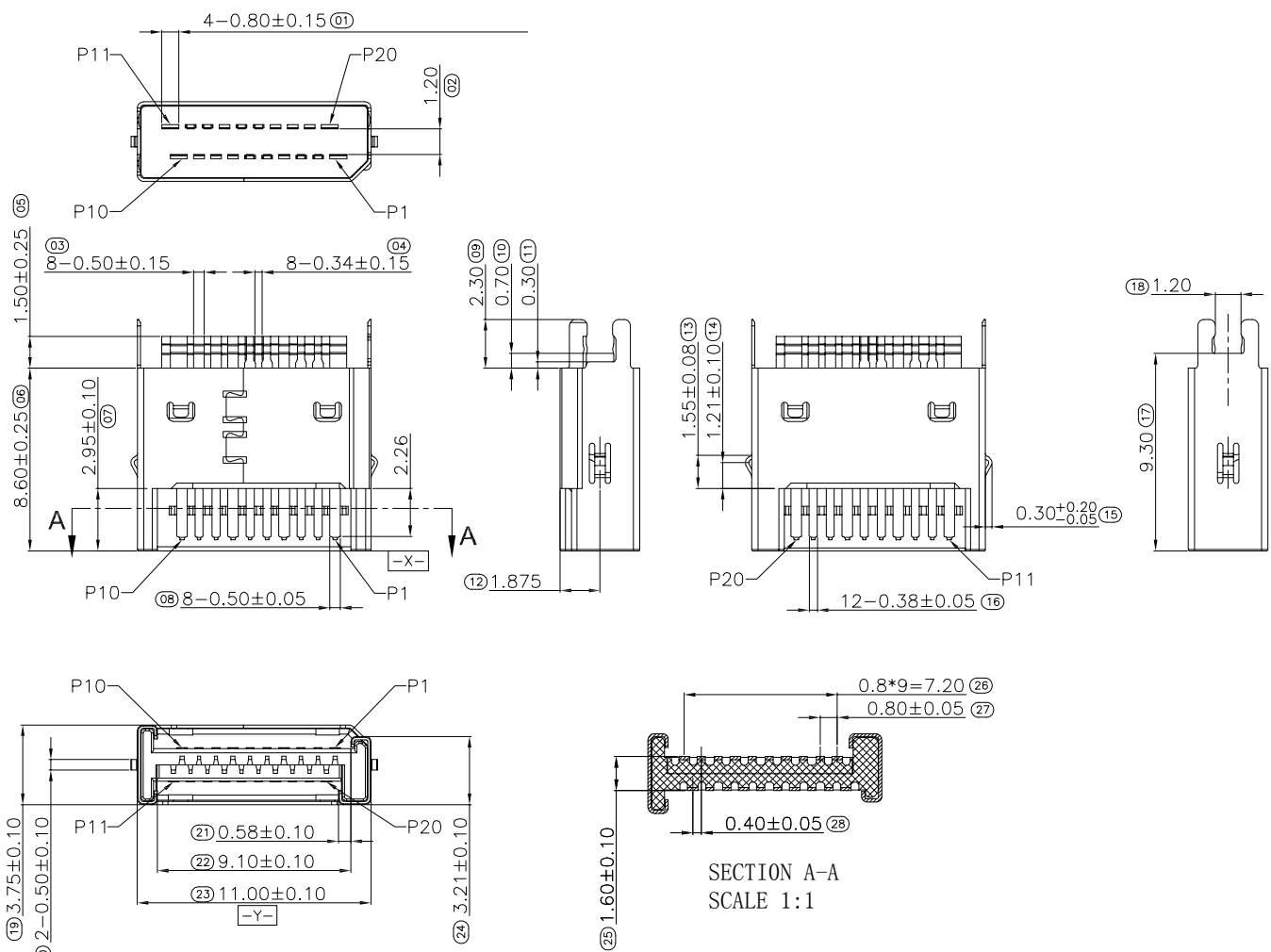
[Http://www.hlwconn.com](http://www.hlwconn.com)

目 录

Contents

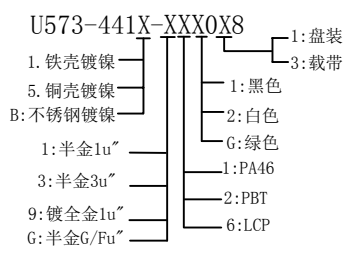
图纸.....	Page03
产品规格书.....	Page04-09
产品检测报告.....	Page10-11
尺寸测试报告.....	Page12
电镀报告.....	Page13-14
盐雾报告.....	Page15
材质证明.....	Page16-18
SGS.....	Page19-56

REV.	ECN.NO.	APPD.
A	/	ZFY



SPECIFICATIONS:

- Electrical Performance:
 - Contact current Rating:
 - 3 Amperes for VBUS and GND contacts.
 - 1.25 Amperes for all other contacts.
 - Dielectric Withstanding Voltage: AC 100V(RMS).
 - Insulation resistance: 100M ohms Min.
 - Contact Resistance:
 - 40m ohm Max, 50m ohm Max After Durability.
 - Voltage Rating : 30 Vac (rms).
- Mechanical Performance:
 - Mating Force: 35N Max.
 - Unmating Force: 15N Min.
 - Durability: 50 cycles.
- Environmental Performance:
 - Temperature Range:
 - Operating Temperature: -55° to +85°.
 - Storage Temperature: -20° to +60°.
 - Salt Spray 24h Min.
- Material:
 - Housing: LCP, UL94-V0.
 - Contact: Brass.
 - Shell: Stainless steel.
- Plating specification:
 - Contact: Au (See table) Plated on the functional area of contact; Tin Plated 80u"min on solder area; Nickel 50u"Min underplating over all.
 - Shell: Nickel 30u"Min plating over all.
- "⊕" Shows FAI measurement point.
- "△" Shows modify measurement point.



Key-A 20-Pin Plug to One Type-C Port										
Pin No.	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Signal Nome	VBUS	TX1+	TX1-	GND	RX1+	RX1-	VBUS	CC1	SBU1	SBU2
Signal Nome	CC2	D+	D-	GND	RX2-	RX2+	GND	TX2-	TX2+	VBUS
Pin No.	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11

Key-A 20-Pin Plug to One Standard-A Port										
Pin No.	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Signal Nome	VBUS	TX1+	TX1-	GND	RX1+	RX1-	VBUS	CC1		
Signal Nome		D+	D-	GND			GND			VBUS
Pin No.	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11

TOLERANCE UNLESS OTHERWISE SPECIFIED		HUA LIAN WEI TECHNOLOGY ELECTRONICS CO;LTD.			
.XXX ±0.15	.XX ±0.20	.X ±0.30	X' ±5°	.XX' ±2°	
APPROVED		PART NAME:	TYPE C 3.1夹板脚长1.5		
CHECKED		PART No:	U573-441X-XXX0X8	C	
DRAWN	ZhangFenYan	PROJECTION:	UNIT:	SCALE	SHEET
DATE	2018.10.10		mm	1:1	10F1
				REV.	A

HDMI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 HDMI Connector.
(此份产品规格适用于HDMI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):40V AC

B. Current rating(额定电流):0.5A

C. Operation Temperature Range(操作温度范围):-30°C to +85°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)

4.1.1	Examination of Product 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)

4.2.1	Contact Resistance 接触阻抗	(EIA-364-06B) Mated connectors, Contact: measure by dry circuit, 20 m Volts maximum, 10 mA Shell: measure by open circuit, 5 Volts maximum, 100 mA 配对的连接器, 端子: 测试端子在回路中施加直流最大20mV 10mA的电流再测端子的电阻值 外壳: 测试外壳在开路中施加电流最大5V 100mA的电流再测外壳的电阻值	Initial Contact resistance Excluding conductor Resistance:30 mΩ max (Target design value) 接触电阻初始值最大不能超过30 mΩ (目标设计值)
4.2.2	Dielectric Withstanding Voltage (耐电压)	(EIA-364-20C) Unmated connectors, apply 500V AC (RMS.) for 1 minute between adjacent terminals of ground. Mated connectors, apply 300V 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500V的交流电压1分钟 配对的连接器在相邻的端子或接地之间通上300V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

4.2.3	Insulation Resistance 绝缘阻抗	(EIA-364-21C) Unmated connectors, apply 500V DC for 1 minute between adjacent terminals of ground. Mated connectors, apply 100V 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 配对的连接器在相邻的端子或接地之间通上150V的直流电压1分钟	100MΩ min (unmated) 10 MΩ min (mated) 没有配对需大于100 MΩ 配对需大于10 MΩ
4.3 Mechanical 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	Maximum insertion force 44.1N 插入力不超过44.1N(4.5kg) Withdrawal force 9.8N min 39.2N max 拔出力9.8-39.2N(1.0-4.0kg)
4.3.2	Durability 寿命测试	(EIA-364-09) Measure contact and shell resistance after the following. Automatic cycling: 10000 cycles at 100±5 Cycles per hour. 以每小时100±5的插拔次数测试10000循环后测量端子和外壳的接触阻抗	Contact Resistance 接触阻抗 Contact: Change from initial Value: 30 milliohms maximum. Shell: Change from initial Value: 50 milliohms maximum. 端子: 从初始值开始变化量小于30mΩ 外壳: 从初始值开始变化量小于50mΩ
4.3.3	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 Shell Part: Change from initial Value: 50mΩ Max. 外壳: 从初始值开始变化量小于50 mΩ Discontinuity: 1μ sec Max. 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 30mΩ Max 端子: 从初始值开始变化量小于30mΩ Shell Part: Change from initial Value 50mΩ Max 外壳: 从初始值开始变化量小于50mΩ 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 30mΩ Max Shell Part: Change from initial Value 50mΩ Max 端子: 从初始值开始变化量小于30mΩ 外壳: 从初始值开始变化量小于50mΩ
4.4..2	Solder ability 焊锡性	(EIA-364-52) To be sipped in the solder bath 260±5℃ Coverage for 3 seconds.将焊锡脚浸在260±5℃的锡炉中<3秒	The inspected area of each lead must have 90% solder coverage minimum 表面粘锡面积不少于90%
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: 80% to 90%(相对湿度: 80%到90%) 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 Shell Part: Change from initial Value 50mΩ Max 端子: 从初始值开始变化量小于30mΩ 外壳: 从初始值开始变化量小于50mΩ
		(EIA-364-31B) (B) Unmated each connector and perform the test as follows. 没有配对的连接器测试条件 Temperature: +25℃ to +85℃(温度: +25℃到+85℃) Relative Humidity: 80% to 90%(相对湿度: 80%到90%) 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 Conform to item of dielectric withstanding Voltage and Insulation Resistance. 符合耐电压及绝缘阻抗要求

4.4.4	Salt Spray 盐水喷雾	<p>(EIA-364-26B)</p> <p>Temperature: 35±2°C 温度: 35±2°C 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</p>	<p>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)</p> <p>Contact Resistance 接触阻抗 Contact: Change from initial Value 30mΩ Max Shell Part: Change from initial Value 50mΩ Max 端子: 从初始值开始变化量小于30mΩ 外壳: 从初始值开始变化量小于50mΩ</p>
4.4.5	Cold resistance (Unmated) 冷阻抗	<p>(EIA-364-17B)</p> <p>Unmated connectors and expose to -40±3°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. 没配对的连接器放置于-40±3°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. 外观: 没有损坏</p> <p>Contact Resistance 接触阻抗 Contact: Change from initial Value 30mΩ Max Shell Part: Change from initial Value 50mΩ Max 端子: 从初始值开始变化量小于30mΩ 外壳: 从初始值开始变化量小于50mΩ</p>
4.4.6	Heat resistance (Unmated) 热阻抗	<p>(EIA-364-17B)</p> <p>Mated connectors and expose to 85±2°C for 96 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. 配对的连接器放置于85±2°C温度中96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. 外观: 没有损坏</p> <p>Contact Resistance 接触阻抗 Contact: Change from initial Value 30mΩ Max Shell Part: Change from initial Value 50mΩ Max 端子: 从初始值开始变化量小于30mΩ 外壳: 从初始值开始变化量小于50mΩ</p>
4.4.7	Thermal Aging 高温老化	<p>(EIA-364-31B, Condition 4, Method A)</p> <p>Unmated connectors and expose to +105±2°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. 没配对的连接器放置于+105±2°C温度中250小时, 当完成实验后, 样品放置一般环境中1到</p>	<p>Appearance: No Damage. 外观: 没有损坏</p> <p>Contact Resistance 接触阻抗 Contact: Change from initial Value 30mΩ Max Shell Part: Change from initial Value 50mΩ Max 端子: 从初始值开始变化量小于30mΩ 外壳: 从初始值开始变化量小于50mΩ</p>

4.4.8	Resistance to Soldering Heat	<p>for wave soldering : mil-std-202f,method 210 A,test condition B 波峰焊: mil-std-202f, method 210 A, 试验条件B Pre-heat : 80℃, 60 Seconds 预热:80℃, 60秒 Temperature : 260 ± 5 °C 温度:260±5℃ Immersion duration : 10 ± 1 sec. 浸泡时间:10±1秒</p> <p>for manual soldering :手动焊接: mil-std-202f,method 210 A,test condition A Pre-heat : No预热:没有 Temperature : 350 ± 10 °C 温度:350±10℃ Immersion duration : 3.5±0.5 sec.浸泡时间:3.5±0.5秒</p>	No physical damage shall occur. 不可有损坏

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 产品外观	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 接触阻抗	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 Voltage	3,7													
4.2.3.Insulation Resistance 绝缘阻抗	4,6													
4.3.1.Insertion/Withdrawal force 插拔力		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 冷热冲击							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 冷阻抗											3				
4.4.6.Heat resistance 热阻抗												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.) 测试样	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
<p>NOTE 2: (a) Numbers indicate sequence in which tests are performed. (b) Discontinuities shall not take place in this test group, during tests.</p> <p>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</p>															

核准：唐竹君

制作人：魏红

測試報告

TEST REPORT

產品名稱 Part Name	TYPE C 3.1 夾板脚长 1.5	測試日期 Date of Testing	2022.03.18 2022.03.20	報告編號 Report NO.	MD20220320-01
產品型號 Part Name	U573-441B-G61018	樣品數量 Quantity	5PCS	測試環境 Measuring Environment	濕度 Temp:18 ±11C 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. & 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. & HUMIDITY CHAMBER	No physical damage	Pass	Pass	Pass	Pass	Pass	P	
4	Temperature cycling test	Temperature: 70—25°C Duration: 5 cycle	PROGRAM CONTROLLED TEMP. & HUMIDITY 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
 2022年03月21日 版次:A1

料號	U573-441B-G61018	制令單號	/					送檢單位	工程	首件製作者	裝配		
品名	TYPE C 3.1夹板脚长1.5	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:0.6		
MIL-STD-105E(II)		<input checked="" type="checkbox"/> 正常 <input type="checkbox"/> 加嚴 <input type="checkbox"/> 減量					(5PCS)	ACC/RE.	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				
	0.80±0.15	D	0.83	0.85	0.84	0.82	0.83	√					
尺 寸 測 量	8.60±0.25	D	8.63	8.65	8.64	8.63	8.65	√					
	2.95±0.10	D	2.93	2.95	2.92	2.94	2.95	√					
	3.75±0.10	D	3.72	3.71	3.73	3.75	3.72	√					
	11.00±0.10	D	11.02	11.05	11.03	11.04	11.03	√					
	3.21±0.10	D	3.23	3.22	3.20	3.18	3.19	√					
	2.30±0.20	D	2.32	2.35	2.30	2.31	2.32	√					
	9.30±0.20	D	9.32	9.35	9.36	9.37	9.35	√					
檢驗依據: <input checked="" type="checkbox"/> 《工程圖紙》 <input type="checkbox"/> 《檢驗規範》 <input type="checkbox"/> 《承認書》 <input type="checkbox"/> 樣品 <input type="checkbox"/> 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:		<input checked="" type="checkbox"/> 合格Accept <input type="checkbox"/> 退貨Reject <input type="checkbox"/> 特采Waive <input type="checkbox"/> 挑選Sort											

核准: 欠必鋒

審核: 李娟

檢驗員: 但芬

品名:TYPE C 3.1夹板脚长1.5 (端子)	版次:A.0				
电镀规格:Ni40u", Sn40u", Au G/Fu"	日期:2021-12-20	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	50.5u"	OK	2021/12/20	10:20:15
2	40u"MIN	56.3u"	OK	2021/12/20	10:20:17
3	40u"MIN	67.5u"	OK	2021/12/20	10:20:19
4	40u"MIN	62.4u"	OK	2021/12/20	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	65.3u"	OK	2021/12/20	10:25:10
2	40u"MIN	74.7u"	OK	2021/12/20	10:25:12
3	40u"MIN	75.9u"	OK	2021/12/20	10:25:14
4	40u"MIN	70.4u"	OK	2021/12/20	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	0.56u"	OK	2021/12/20	10:30:32
2	0.5u"MIN	0.54u"	OK	2021/12/20	10:30:34
3	0.5u"MIN	0.57u"	OK	2021/12/20	10:30:36
4	0.5u"MIN	0.55u"	OK	2021/12/20	10:30:38

核准: 欠必锋

审核: 李娟

检验员: 但芬

电镀报告表

品名: TYPE C 3.1夹板脚长1.5 (外壳)		版次:A.0																																	
电镀规格:Ni:50u" min		日期:2021-12-16		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>56.3u"</td><td>OK</td><td>2021/12/16</td><td>10:42:14</td></tr><tr><td>2</td><td>50u"min</td><td>58.6u"</td><td>OK</td><td>2021/12/16</td><td>10:42:16</td></tr><tr><td>3</td><td>50u"min</td><td>55.4u"</td><td>OK</td><td>2021/12/16</td><td>10:42:18</td></tr><tr><td>4</td><td>50u"min</td><td>54.5u"</td><td>OK</td><td>2021/12/16</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	56.3u"	OK	2021/12/16	10:42:14	2	50u"min	58.6u"	OK	2021/12/16	10:42:16	3	50u"min	55.4u"	OK	2021/12/16	10:42:18	4	50u"min	54.5u"	OK	2021/12/16	10:42:20
数据	测试标准	实测值	判定	测试日期	测试时间																														
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2	50u"min	58.6u"	OK	2021/12/16	10:42:16																														
3	50u"min	55.4u"	OK	2021/12/16	10:42:18																														
4	50u"min	54.5u"	OK	2021/12/16	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	2022年03月18日 20:00 时起
		DATE	2022年03月19日 08:00 时止
样品名称	TYPE C 3.1 夹板脚长1.5	试验数量	5PCS
P/N	U573-441B-G61018		

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) $1-2\text{mL}/(8 \text{ cm}^2\text{hr})$.
- 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: 李娟

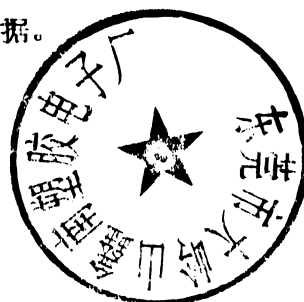
试验员: 但芬

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。



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



产品质量证明书

PRODUCT INSPECTION CERTIFICATE

合同号码: Contract No.	20131014003	等级: Grade	1A	品名: Commodity	不锈钢冷轧钢带 (COIL)	牌号: Type	SUS304-CSP 1/2H	钢卷编号: Serial number	13092820
订货方: Order	YU HUA	标准: Specification	JIS G 4313-1996	表面加工: Surface Finish	2B 亮	发行日期: Date	2013-10-15		
供货方: Supplier	东莞鑫发								

序号 No.	产品牌号 Product name	产品尺寸 Product Size					拉伸试验 Tensile Test			表面硬度 Hardness HV	化学成分 Chemical Composition(%)						
		厚度 Thickness mm	宽度 Width mm	长度 Length m	卷数 Number C	重量 Weight Kg	降伏强度 N/mm ² ≥470	抗拉强度 N/mm ² ≥780	延伸率 % ≥6		碳 C ≤0.080	硅 Si ≤1.000	锰 Mn ≤2.000	磷 P ≤0.045	硫 S ≤0.030	镍 Ni 8.0-10.5	铬 Cr 18.0-20.0
1	SUS304-CSP 1/2H	0.3	410	COIL	1	1102.3	625	836	7	280	0.072	0.490	1.212	0.042	0.002	8.100	18.020

备注:(Remarks):
 1. 尺寸和表面:合格
 Size and Surface:Guaranteed
 2. 拉伸试验:方法符合JISZ2241标准;试样规格为JISZ2201 5号
 Tensile Test:Technique accord with JIS Z 2241;
 Sample Specification accord with No.5 of JIS Z 2201
 3. 硬度试验:方法符合JIS Z 2244标准
 Hardness Test:Technique accord with JIS Z 2244

兹证明所列产品均符合订单和标准的制造要求
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 MADE IN ACCORDANCE WITH THE ORDER AND
 SPECIFICATION
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