

承认书

Approval Sheet

客户 (Customer): /

客户料号 (Cus .P/N): /

华联威料号 (HLW P/N): HD22-2511-161018

品名规格 (PronameSpec): HDMI 19P/F SMT 短体11.55 四脚插

送样日期 (Delivery Date): 2022/08/04

承认日期 (Acknowledge Date): 2022/08/04

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
陈虹熹	欠必锋	杨桂锋	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

邮箱: hua@hlwconn.com

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

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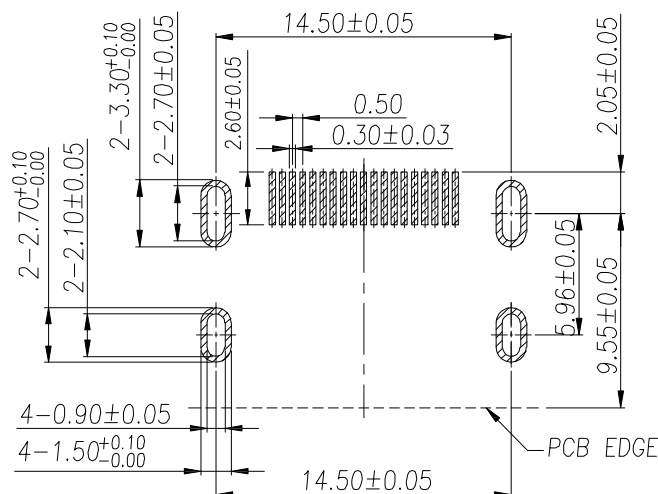
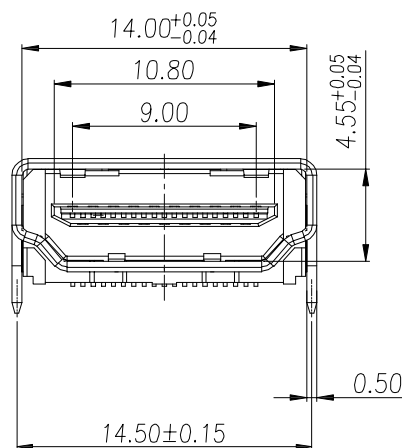
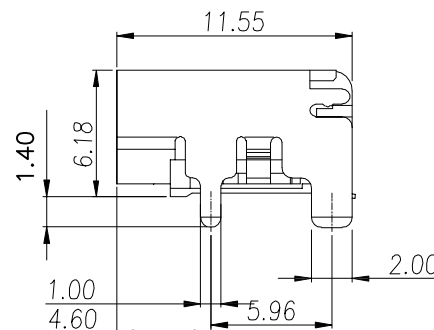
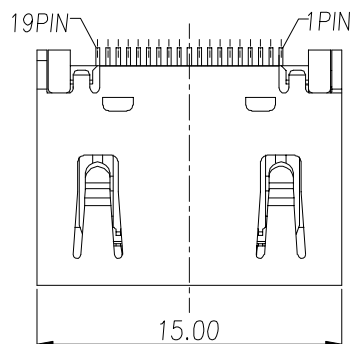
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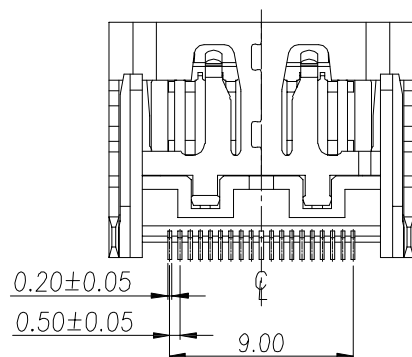
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REV.	ECN.NO.	APPD.
A	EXXXXXXXXXX	yangguifeng



RECOMMENDED PCB LAYOUT (T:1.60mm)
TOLERANCE UNSPECIFIED ±0.10mm



NOTES:

1.MATERIAL:

1.1 Housing:thermoplastic plastics

1.2 terminals:Copper Alloy

Gold plated in contact area:

Tin plated in termination

Nickel Plated overall

1.3 Shell:Steel&Copper Alloy

Nickel/Au Plated overall

2.ELECTRICAL CHARACTERISTICS:

2.1 Rating Current :0.5 Ampere

2.2 Rating Voltage :40 V Max

2.3 Contact Resistance:30 Milli ohms

2.4 Insulation Resistance:100 Mega ohms Min.

3.MECHANICAL CHARACTERISTICS:

3.1 Connector Mating force: 4.5kg MAX

3.2 Connector Unmating force:1.0Kg min

3.3 Durability:10000Cycles.

4.ENVIRONMENT CHARACTERISTICS:

4.1 Operating temperature:-20℃ to +85℃

4.2 Storage temperature:-20℃ to +65℃

HD22-2511-161018

1:铁壳镀镍
1:1u" Au
1:载带
1:黑色
6:LCP

TOLERANCE UNLESS OTHERWISE SPECIFIED			FLW 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:	HDMI 19P/FSMT 短体11.55四脚插			
CHECKED			PART No:	HD22-2511-161018			C
DRAWN	chenyiting		PROJECTION:	UNIT:	SCALE	SHEET	REV.
DATE	2022. 12. 29			mm	1:1	1 OF 1	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℃ to +85℃

3. Test Condition(测试条件):

3.1 Temperature range(温度范围):+15℃ to +35℃

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	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	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) 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..5	Cold resistance (Unmated) 冷阻抗	(EIA-364-17B) Unmated connectors and expose to -40±3℃ 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℃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	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..6	Heat resistance (Unmated) 热阻抗	(EIA-364-17B) Mated connectors and expose to 85±2℃ 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℃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	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..7	Thermal Aging 高温老化	(EIA-364-31B, Condition 4, Method A) Unmated connectors and expose to +105±2℃ 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℃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	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

4.4.8	Resistance to Soldering Heat	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 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	No physical damage shall occur. 不可有损坏
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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
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

深圳市华联威电子科技有限公司



SHENZHENHUALIANWEIELECTRONICS CO., LTD.

測試報告

TEST REPORT

產品名稱 Part Name	HDMI 19P/F SMT 短体 11.55四脚插	測試日期 Date of Testing	2022.08.04- 2022.08.04	報告編號 Report NO.	MD202208013
產品型號 Part Name	HD22-2511-161018	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°C

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:150mA max	DIGITAL MICRO-OHMMETER	30 mΩ Max	17.65 mΩ	17.24 mΩ	18.30 mΩ	16.82 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: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:100cycles/hour Total: 10000cycles	LIFE TESTER FOR CONNECTOR	No physical damage	Pass	Pass	Pass	Pass	Pass	P	
2	Mating Force	44.1 Newtons maximum at a maximum rare of 12.5mm(0.492") per minute	Insertion force testing machine	No physical damage	Pass	Pass	Pass	Pass	Pass	P	
3	Un-Mating Force	9.8-39.2Newtons at a maximum rare of 12.5mm(0.492") 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: 90~99% 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±2°C Concentration:5±1 % Duration:12H	SALT SPRAY TESTER	No Oxidation	Pass	Pass	Pass	Pass	Pass	P	
2	Resistance to soldering heat test	Temperature: 260±5°C Duration:10±1sec	OVEN	No physical damage	Pass	Pass	Pass	Pass	Pass	P	
3	Solder ability test	Temperature: 260±5°C Duration:5±0.5 sec	CONTROLLED CONSTANT-TEMP SOLDER POT	Soldering area ≥95□	Pass	Pass	Pass	Pass	Pass	P	
判 定 Result		■ 合格 (ACCEPT) □ 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8月4日 版次:A1

料號	HD22-2511-161018	制令單號	/		送檢單位	工程	首件製作者	裝配					
品名	HDMI 19P/F SMT 短体11.55 四脚插	客戶代號	/	批 量	/	送檢時間	/						
				數 量	5PCS	確認時間	/						
抽樣標準		■單次 □雙次			抽樣數	AQL	CRI:0	MAJ:0.40	MIN:0.65				
MIL-STD-105E(II)		■正常 □加嚴 □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	15.00±0.20	D	14.97	14.98	14.99	15.00	15.01	✓					
	14.00+0.05/-0.04	D	13.98	13.99	14.00	14.01	14.02	✓					
	4.55+0.05/-0.04	D	4.53	4.54	4.55	4.56	4.57	✓					
	0.50±0.20	D	0.48	0.49	0.50	0.51	0.52	✓					
	14.50±0.15	D	14.42	14.44	14.46	14.48	14.50	✓					
	9.00±0.20	D	8.89	8.91	8.93	8.95	8.97	✓					
	0.20±0.05	D	0.16	0.18	0.20	0.22	0.24	✓					
	0.50±0.05	D	0.47	0.49	0.51	0.53	0.55	✓					
	11.55±0.20	D	11.52	11.53	11.54	11.55	11.56	✓					
	6.18±0.20	D	6.15	6.16	6.17	6.18	6.19	✓					
	1.40±0.20	D	1.31	1.33	1.35	1.37	1.39	✓					
	1.00±0.20	D	0.98	0.99	1.00	1.01	1.02	✓					
	2.00±0.20	D	1.96	1.97	1.98	1.99	2.00	✓					
	4.60±0.20	D	4.56	4.57	4.58	4.59	4.60	✓					
	5.96±0.20	D	5.92	5.93	5.94	5.95	5.96	✓					
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

审核: 李娟

检验员: 但芬



电镀报告表

品名:HDMI 19P/F SMT 短体11.55四脚插(外壳)			版次:A.0		
电镀规格:Cu:40u",Ni:30u"		日期:2022/8/3		页次:1/1	
厂商:同华					
测试设备:CMI X-射线膜厚测试仪					
1、表层电镀测试(Ni)					
数据	测试标准	实测值	判定	测试日期	测试时间
1	30u"min	110.2u"	OK	2022/8/3	11:35:05
2	30u"min	105.9u"	OK	2022/8/3	11:36:07
3	30u"min	108.6u"	OK	2022/8/3	11:37:09
4	30u"min	109.8u"	OK	2022/8/3	11:38:11
2、底层电镀测试(Cu)					
数据	测试标准	实测值	判定	测试日期	测试时间
1	30u"min	86.5u"	OK	2022/8/3	11:35:05
2	30u"min	72.3u"	OK	2022/8/3	11:36:07
3	30u"min	84.7u"	OK	2022/8/3	11:37:09
4	30u"min	81.1u"	OK	2022/8/3	11:38:11

核准: 欠必锋

审核: 李娟

检验员: 但芬

电镀报告表

品名:HDMI 19P/F SMT 短体11.55四脚插(端子)				版次:A.0	
电镀规格:Ni40u", Sn40u", Au1u"			日期:2022/8/3		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	2022/8/3	14:15:03
2	40u"MIN	58.3u"	OK	2022/8/3	14:15:05
3	40u"MIN	57.5u"	OK	2022/8/3	14:15:07
4	40u"MIN	52.4u"	OK	2022/8/3	14:15:09
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	43.3u"	OK	2022/8/3	14:20:12
2	40u"MIN	42.4u"	OK	2022/8/3	14:20:14
3	40u"MIN	46.7u"	OK	2022/8/3	14:20:16
4	40u"MIN	43.1u"	OK	2022/8/3	14:20:18
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	1u"MIN	1.05u"	OK	2022/8/3	14:25:06
2	1u"MIN	1.17u"	OK	2022/8/3	14:25:08
3	1u"MIN	1.13u"	OK	2022/8/3	14:25:10
4	1u"MIN	1.02u"	OK	2022/8/3	14:25:12

核准: 欠必锋

审核: 李娟

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-1216
METHOD	NEUTRL SALT SPRAY CORROSION TEST	REF	
客户	/	试验起始日期	2022年08月04日 08:00 时起
		DATE	2022年08月04日 20:00 时止
样品名称	HDMI 19P/F SMT 短体11.55四脚插	试验数量	5PCS
P/N	HD22-2511-161018		
试验条件 (TEST CONDDITION)			
1、盐水溶解 (SALT SOLUTION: 浓度50±10g/L, PH值6.5-7.2.			
2、试验室温度 (TEMP.IT THE SPRAY DHAMBR):35±1℃.			
3、盐水桶温度 (TEMP.OF SALE SOL' N TANK): 35±1℃.			
4、 压力桶温度 (TEMP.OF SAR SUPPLIERY) : 47±1℃.			
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±0.01Kg/cm ² .			
7、 样品放置位置 (SPECIMEN SUPPORTED ANGLE) : 尼龙绳吊挂70° -90° .			
8、 喷雾收集量 (COLLECT RATE OF SALT SOL' N) 1-2mL/(8 cm 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: 欠必锋

审核: 李娟

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



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	化学成分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



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

聯系電話:0755-28111847
傳真: 0755-28110077

