

## 承 认 书

Approval Sheet

客户 (Customer): /

客户料号 (Cus .P/N): /

华联威料号 (HLW P/N): HD23-0235-161011

品名规格 (PronameSpec): HDMI 19/F 三排 90 度鱼叉脚 (无耳)

送样日期 (Delivery Date): 2021/11/17

承认日期 (Acknowledge Date): 2021/11/17

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	欠必锋	魏红	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

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

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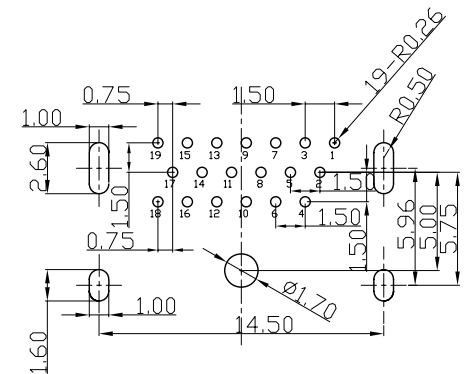
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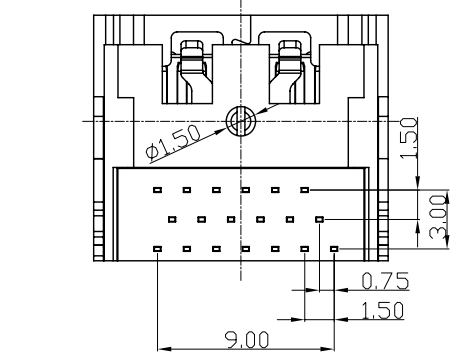
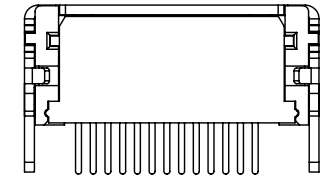
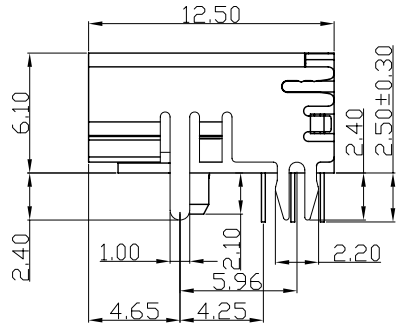
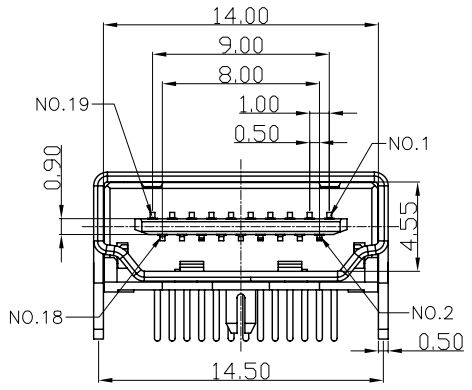
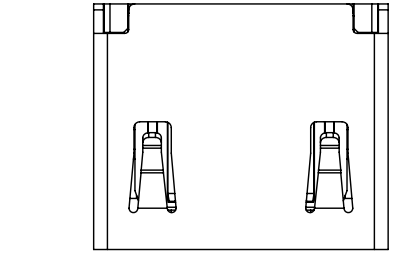
REV.	ECN.NO.	APPD.
A	/	pcy

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°C to +85°C
  - 4.2 Storage temperature: -20°C to +65°C



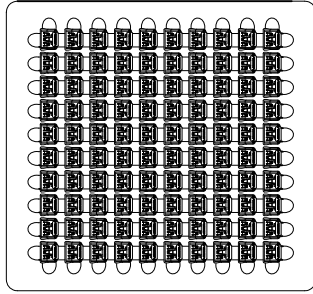
RECOMMENDED PCB LAYOUT (TOP VIEW)  
TOLERANCE FOR PCB LAYOUT IS ±0.05



HD23-023X-XXX0X1

- 1:Iron alloy Ni plating
  - 5:Copper alloy Ni plating
  - 4:Iron alloy Au plating
  - 8:Copper alloy Au plating
  - 1:tray
  - 2:Tube
  - 8:Tape&Reel
  - 9:Tape&Reel+Mylar
  - 1:Black
  - 5:PA9T
  - 2:PBT
  - 6:LCP
- 1: Au 1u", 3: Au 3u"  
5: Au 5u", 7: Au 10u"  
8: Au 15u", A: Au 30u"

TOLERANCE UNLESS OTHERWISE SPECIFIED		<b>FLW</b> 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'		PART NAME: HDMI 19P/F 三排90度鱼叉脚(无耳)		
APPROVED		PART No: HD23-023X-XXX0X1		C		
CHECKED		PROJECTION:		UNIT: mm	SCALE: 1:1	
DRAWN	pengchaoyong	DATE: 2014.12.3		SHEET: 1 OF 1	REV. A	



每盒装100PCS

1扎=10盒

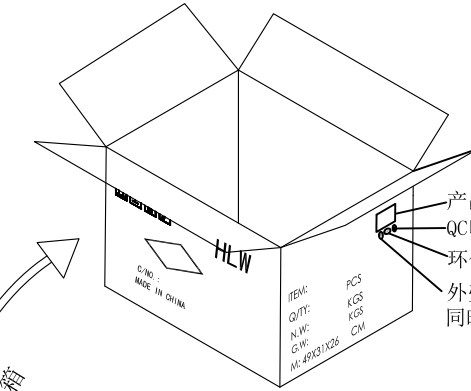


1扎=11盒

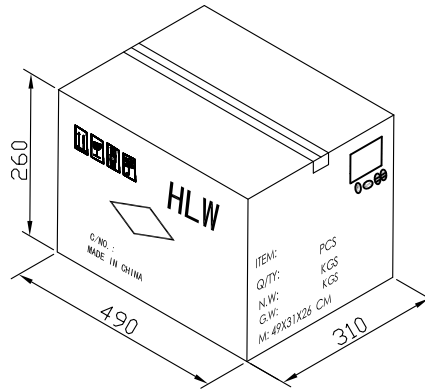


一排21盒,二排共42盒装一箱. 底下11盒为一扎,上面10盒为一扎,每盒盖一个上盖,2扎共21盒为一排,分两排放入纸箱内,一箱共4200PCS

将两排放入纸箱



- 产品标签
- QC印章, 加盖于标签右下方
- 环保标签
- 外壳为铜时加贴铜标签  
同时内部每盘右上角加贴小铜标



适用于:

1. HDMI 90度 三排针系列

备注:

1. 将全检后的良品如图示摆入规格为275\*230的PVC透明吸塑盒中, 每盒包装100PCS, 每箱底下11盒为一扎, 上面10盒为一扎, 每盒盖一个上盖并贴上标签用PE膜缠好, 2扎共21盒为一排, 分两排放入规格为490\*310\*260mm的纸箱中, 每箱共4200PCS.
2. 装好后用封胶纸将纸箱封好, 并在纸箱上贴上外箱标签和加盖QC PASS章.
3. 客户有特殊要求时按客户要求.
4. 月份标签按月份标签粘贴作业规范进行.

TOLERANCE UNLESS OTHERWISE SPECIFIED
.XX ±0.15
.X ±0.30
X. ±0.50
.X* ±3'

产品名称	HDMI 三排针无耳系列包装规范
PART NAME:	

REV:	DESCRIPTION	REV BY	APPROVED	DATE	MATL:	SEE SPECIFICATION	APPROVED			
					PROJECTION:	THIRD ANGLE PROJECTION	CHECKED			
B	变更包装方式及包装数量	LIANG. WU		2019. 1. 14	UNIT:	SCALE	REV(NO)	SHEET	DRAWN	LIANG. WU
A	NEW DWG	HX		2018. 05. 31	mm	1:1	B	1 OF 1	DATE	2019. 1. 14

料号		P
图号	B-197	
深圳市华联威电子科技有限公司 HUA LIAN WEI TECHNOLOGY ELECTRONICS CO; LTD.		



TEST ITEM		REQUIREMENT	
1	Examination of Product	Meets requirements of product drawing. No physical damage.	Visual inspection.
2	Operating Temperature	-55°C ~+85°C	
3	Storage Temperature	-20°C ~+85°C	
<b>ELECTRICAL REQUIREMENT</b>			
4	Rating Voltage	40VAC max	on any signal pin with respect to the shield
5	Rating Current	0.5A Min type A/B/C/E; 0.3A Min type D	55°C ,maximum ambient 85°C ,maximum temperature change (ANSI/EIA 364-70,TP-70)
6	Contact Resistance	[30] m Ohm Max(Initial) [50] m Ohm Max(Final)	Subject mated contacts assembled in housing to 20mV Max open circuit at 150mA Max. EIA-364-23.
7	Dielectric withstanding Voltage	No breakdown	[500 ]VAC(Type A/B/C/E ) [150 ]VAC(Type D ) for 1minute Test between adjacent circuits of unmated connector. EIA-364-20C
8	Insulation Resistance	[100 ] M Ohm Min.(unmated) [ 10 ] M Ohm Min.(mated)	Impressed voltage 500 VDC(unmated) 150VDC(mated). Test between adjacent circuits of unmated connector. EIA-364-21C.
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.
<b>Mechanical Requirement</b>			
10	Connector Mating Force	44.1N Max	Operation Speed : [ 25] mm/min. Measure the force required to mate connector. EIA-364-13
11	Connector Unmating Force	9.8N-39.2N type A 7N-25N type C 5N-25N type D 3N-25N after 5000cycles	Operation Speed : [25] mm/min. Measure the force required to unmate connector. EIA-364-13
12	Durability	30m ohms Max change from initial per contact pair	Automatic cycling to 10000 cycles(type A) 5000cycles(type C and D) Rate:100±50 cycles per hour. EIA-364-09C
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:5+0.5s EIA 364-52
<b>Environmental Requirements</b>			



TEST ITEM		REQUIREMENT	
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
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)	30m ohms Max change from initial per contact pair All sample to be mated	ANSI/EIA-364-17 Condition 4 105°C for 250 hours,Method A,mated
20	Salt Spray	Visual Inspection-No physical damageLLCR-50 m Ω max per contact	Mated connector expose to 5% salt concentration for 24 hours at temperature 35+2 °C.After the test specimens shall be washed with running water and dried naturally EIA 364-26

### 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。



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:24H	SALT SPRAY TESTER	No Oxidation	Pass	Pass	Pass	Pass	Pass	P	
2	Resistance to soldering heat test	Temperature: 245±5°C Duration:10±1sec	OVEN	No physical damage	Pass	Pass	Pass	Pass	Pass	P	
3	Solder ability test	Temperature: 245±5°C Duration:5±0.5 sec	CONTROLLED CONSTANT-TEMP SOLDER POT	Soldering area ≥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): 蔣發俊

測試(Tester): 董丙申





# 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

2023年11月20日 版次:A

料號	HD23-0235-161011	制令單號	/	送檢單位	工程部	首件製作者	裝配
品名	HDMI 19P/F 三排90度 鱼叉脚	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 ( 5PCS )	AQL	CRI:0	MAJ:0.40	MIN:0.65
MIL-STD-105E(II)	■正常 □加嚴 □減量		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				
	14.00±0.20	D	14.02	14.05	14.02	14.00	14.03	✓					
	9.00±0.20	D	9.02	9.03	9.05	9.01	9.03	✓					
	8.00±0.20	D	8.02	8.01	8.06	8.02	8.03	✓					
	1.00±0.20	D	1.02	1.00	1.01	1.00	1.02	✓					
	0.50±0.20	D	0.52	0.50	0.51	0.53	0.51	✓					
	0.90±0.20	D	0.92	0.91	0.90	0.93	0.91	✓					
	4.55±0.20	D	4.56	4.57	4.58	4.56	4.53	✓					
	0.50±0.20	D	0.51	0.53	0.51	0.50	0.52	✓					
	14.50±0.20	D	14.52	14.50	14.53	14.50	14.51	✓					
	1.50±0.20	D	1.52	1.50	1.53	1.51	1.52	✓					
	1.50±0.20	D	1.53	1.52	1.50	1.53	1.50	✓					
	3.00±0.20	D	3.02	3.01	3.02	3.01	3.02	✓					
	0.75±0.20	D	0.76	0.73	0.75	0.78	0.77	✓					
	1.50±0.20	D	1.52	1.50	1.53	1.52	1.50	✓					
	9.00±0.20	D	9.02	9.01	9.02	9.03	9.01	✓					
	12.50±0.20	A	12.52	12.53	12.50	12.51	12.53	✓					
	6.10±0.20	D	6.12	6.11	6.13	6.10	6.13	✓					
	2.40±0.20	D	2.40	2.41	2.42	2.41	2.40	✓					
	1.00±0.20	D	1.02	1.01	1.02	1.00	1.03	✓					
	4.65±0.20	D	4.66	4.63	4.65	4.67	4.62	✓					
	2.10±0.20	D	2.11	2.12	2.13	2.10	2.12	✓					
	5.96±0.20	D	5.97	5.95	5.93	5.93	5.96	✓					
	4.25±0.20	D	4.26	4.27	4.26	4.27	4.25	✓					
	2.20±0.20	D	2.22	2.20	2.23	2.21	2.20	✓					
	2.40±0.20	D	2.42	2.43	2.40	2.41	2.40	✓					
	2.50±0.30	D	2.50	2.52	2.51	2.50	2.52	✓					

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	蒋发俊	/	檢驗員	董丙申

保存期限:三年

QR-M-003



## 电镀报告表

品名: HDMI 19/F 三排90度(外壳)		版次:A.0																														
电镀规格:Cu:40u"Ni:50u"MIN	日期:2021-11-09	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>40u"min</td><td>45.3u"</td><td>OK</td><td>2021-11-09</td><td>19:55:05</td></tr><tr><td>2</td><td>40u"min</td><td>48.5u"</td><td>OK</td><td>2021-11-09</td><td>19:55:57</td></tr><tr><td>3</td><td>40u"min</td><td>44.2u"</td><td>OK</td><td>2021-11-09</td><td>19:56:48</td></tr><tr><td>4</td><td>40u"min</td><td>45.6u"</td><td>OK</td><td>2021-11-09</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	40u"min	45.3u"	OK	2021-11-09	19:55:05	2	40u"min	48.5u"	OK	2021-11-09	19:55:57	3	40u"min	44.2u"	OK	2021-11-09	19:56:48	4	40u"min	45.6u"	OK	2021-11-09	19:57:31
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1	40u"min	45.3u"	OK	2021-11-09	19:55:05																											
2	40u"min	48.5u"	OK	2021-11-09	19:55:57																											
3	40u"min	44.2u"	OK	2021-11-09	19:56:48																											
4	40u"min	45.6u"	OK	2021-11-09	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>57.3u"</td><td>OK</td><td>2021-11-09</td><td>19:58:12</td></tr><tr><td>2</td><td>50u"min</td><td>55.6u"</td><td>OK</td><td>2021-11-09</td><td>19:59:04</td></tr><tr><td>3</td><td>50u"min</td><td>56.2u"</td><td>OK</td><td>2021-11-09</td><td>20:01:44</td></tr><tr><td>4</td><td>50u"min</td><td>58.3u"</td><td>OK</td><td>2021-11-09</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	57.3u"	OK	2021-11-09	19:58:12	2	50u"min	55.6u"	OK	2021-11-09	19:59:04	3	50u"min	56.2u"	OK	2021-11-09	20:01:44	4	50u"min	58.3u"	OK	2021-11-09	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	57.3u"	OK	2021-11-09	19:58:12																											
2	50u"min	55.6u"	OK	2021-11-09	19:59:04																											
3	50u"min	56.2u"	OK	2021-11-09	20:01:44																											
4	50u"min	58.3u"	OK	2021-11-09	20:02:36																											

核准:汪志根

审核:刘联英

检验员:但芬



## 电镀报告表

品名:HDMI 19/F 三排90度(端子)		版次:A.0																														
电镀规格:Ni40u", Sn40u", Au 1u"	日期:2021-11-01	页次:1/1																														
厂商:同华电镀厂																																
测试设备:CMI X-射线膜厚测试仪																																
1、底层电镀测试(Ni)																																
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核准:汪志根

审核:刘联英

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	2021年11月19日 20:00 时起
		DATE	2021年11月20日 08:00 时止
样品名称	HDMI 19/F 三排90度鱼叉脚	试验数量	5PCS
P/N	HD23-0235-161011	QTY	

### 试验条件 (TEST CONDITON)

- 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:汪志根

审核: 刘联英

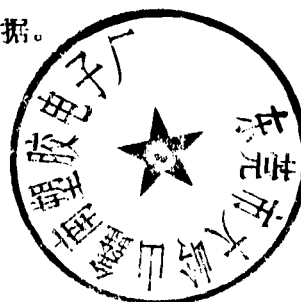
试验员:但芬

# 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。





制造单元: 上海梅山钢铁股份有限公司  
Manufacturer: SHANGHAI MEISHAN IRON & STEEL Co.,LTD.

订货单位 CUSTOMER		产品名称 PRODUCT	冷轧钢带		
收货单位 PURCHASER		代号 CUSTOMER'S NO.	000107	证书号 CERTIFICATE NO.	BCTML1703140000300
标准 SPECIFICATION	Q/BQB 408 SPCC-SD FB PT.A-PW.A-PF.A	客户订单编号 CUSTOMER ORDER NO.			
		签发日期 DATE OF ISSUE	2017/03/14		
		许可证号 LICENSE NO.		合同号 CONTRACT NO.	L7B0000487

序号 NO.	钢卷/捆包号 COIL/PACK NO.	件数 QTY	炉号 HEAT NO.	规格及重量 MATERIAL DESCRIPTION					化学成分 CHEMICAL COMPOSITION % (熔炼分析 HEAT ANALYSIS)										拉伸试验 TENSILE TEST (G.L=L <sup>2</sup> )				弯曲 BEND TEST	硬度 HARDNESS ER30T	*01 杯突 mm	BH 值 MPa		
				厚度 THICK	宽度 WIDTH	长度 LENGTH	张数 SHEETS	重量 MASS	C	Si	Mn	P	S	Al	屈服 Y.S.			抗拉 T.S.	伸长 EL									
									x10 <sup>-2</sup>	x10 <sup>-2</sup>	x10 <sup>-2</sup>	x10 <sup>-2</sup>	x10 <sup>-2</sup>	x10	x10	x10	x10	x10	x10	x10	MPa	%					值	值
1	10707183401	1	544780	0.30	1000	COIL		9360	4	0	16	12	5	36								217	335	41				
2	10707186901	1	544648	0.30	1000	COIL		9340	4	0	16	14	9	33								204	337	45				
3	10707186902	1	544648	0.30	1000	COIL		8940	4	0	16	14	9	33								204	337	45				
4	10707190001	1	544648	0.30	1000	COIL		7310	4	0	16	14	9	33								249	368	39				
5	10707190002	1	544648	0.30	1000	COIL		7370	4	0	16	14	9	33								249	368	39				
6	10707192701	1	544648	0.30	1000	COIL		9600	4	0	16	14	9	33								213	339	34.5				
7	10707192702	1	544648	0.30	1000	COIL		8900	4	0	16	14	9	33								213	339	34.5				

合计 Total	7	60820																								
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备注 REMARKS																											
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注释 NOTES	Y.S.- YIELD STRENGTH T.S.- TENSILE STRENGTH EL- ELONGATION G.L.- GAUGE LENGTH L1- 5.65SQRT(F0) L2- 50MM L3- 80MM L4-200MM L5-11.3SQRT(F0) *01:ERICHSEN																										
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会验者 SURVEYOR TO	本产品已按上述要求进行制造和检验, 其结果符合要求, 特此证明。 WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE MATERIAL SPECIFICATION.																		 质量负责人 QUALITY MANAGER								
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# 东莞市强能金属有限公司

## 产品质量证明书

牌号	状态	规格	公差(mm)		料号	日期
			厚度	宽度		
C2680 (H65)	H	0.5*305	+0.01/-0.03	+0/-0.1		2011-10-10
化学 成份	元素	CU%	P%	Pb%	Fe%	Zn%
	标准	63.5-68	0.01	0.03	0.1	余量
	实际值	64.1	0.001	0.0049	0.0078	余量
成品 性能	项目	抗拉强度 Mpa	延伸率 %	硬度值 HV	深冲值 mm	晶粒度 mm
	实际值	457	15.2	150	6.99	
执行标注:	GB/T2059-2000		检验员:	欧明端	质管部经理	覃中文
备注: 货到用户:请顾客在七天内提出供货质量异议我厂负责产品质量三包, 超出七天后顾客反映供货质量异议, 我厂概不负责.						