

浙江联和电子有限公司

ZHEJIANG LIANHE ELECTRONICS CO., LTD.

承 认 书

SPECIFICATION FOR APPROVAL

客 户 名 称 CUSTOMER	
品 名 DESCRIPTION	
料 号 CUSTOMER PART NO	D158C
日 期 DATE	

客 户 确 认 (APPROVED SIGNATURES)

核准 (APPROVAL)	工程 (ENGINEERING)	品管 (QC)
承认结果： ☐ 承认 ☐ 不承认 ☐ 重新送样		



浙江联和电子有限公司
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核准 (APPROVAL)	确认 (CHECK)	制作 (PREPARE)

料号命名规则

Part No. Naming Rules

D 158 C - T * * - 40 - B10

D: Terminals and Splices

系列号 Series Number

N=直形
Q=旗形
H=横插
K=直形带锁
Z=旗形带锁
X=横插带锁
J=插片
R=环形端子
Y=叉形端子
B=子弹形端子
C=圆形端子
W=鲨鱼齿端子
G=接线端子
同系列多类别: U=耳扒形端子

产品类别: T=端子
Product Category: T=Terminal

同类别多型号序号 (默认为空)
Same Series Different Type: 2~9

同型号多尺寸序号 (默认为空)
Same Type Different size: 2~9

适用线规: A=小脚 B=中脚
Applicable Wire: C=高脚 D=大脚

料带厚度单位: mmx100 (默认为空)

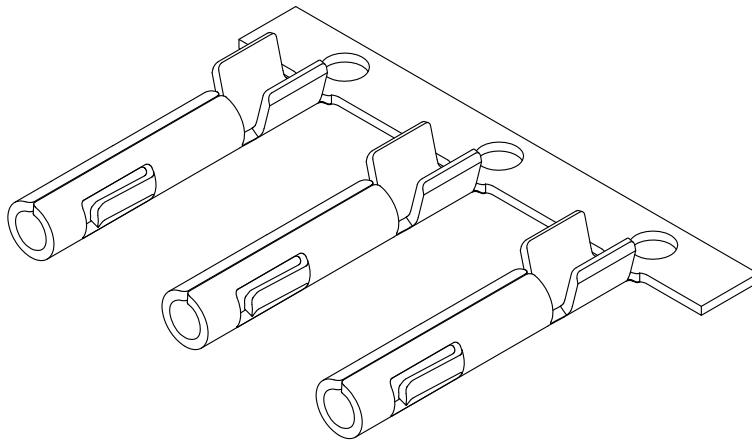
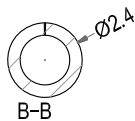
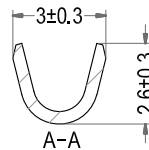
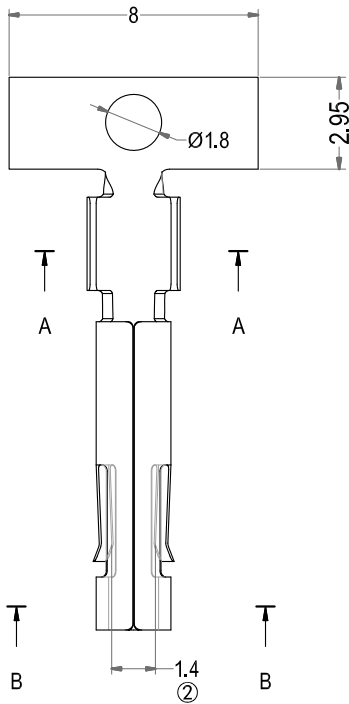
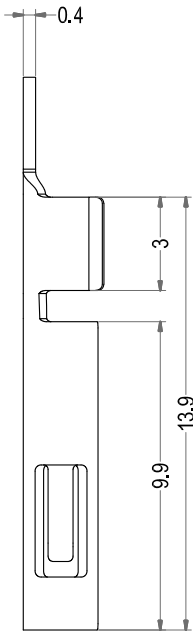
配合厚度单位: mmx10 (默认为空)

S=不锈钢 Stainless Steel
(默认为空) P=磷青铜 Phos.Bronze
材质 Material: B=黄铜 Brass

0=素材酸洗 None
1=镀镍 Nickel Plating
2=镀亮锡 Tin Plating
3=镀镍氩光锡 Matt Tin-Nickel Plating
4=镀铅锡 Tin-Lead Plating
5=镀铜锡 Tin-Cu Plating
6=镀镍银 Silver-Nickel Plating
7=镀镍金 Gold-Nickel Plating
8=镀镍局部金 Half Gold-Nickel Plating
9=镀亮锡局部金 Half Gold-Tin Plating
表面处理
Surface Processing: 10=镀镍亮锡 Tin-Nickel Plating

D158C端子承认图面

REV	SYM	REVISION RECORD	DR.	APPR.	DATE
A/0		原始版本			20171227
A/1		修订尺寸, 增加电镀			20191228
A/2		修订尺寸			20211102



旧底图总号

底图总号

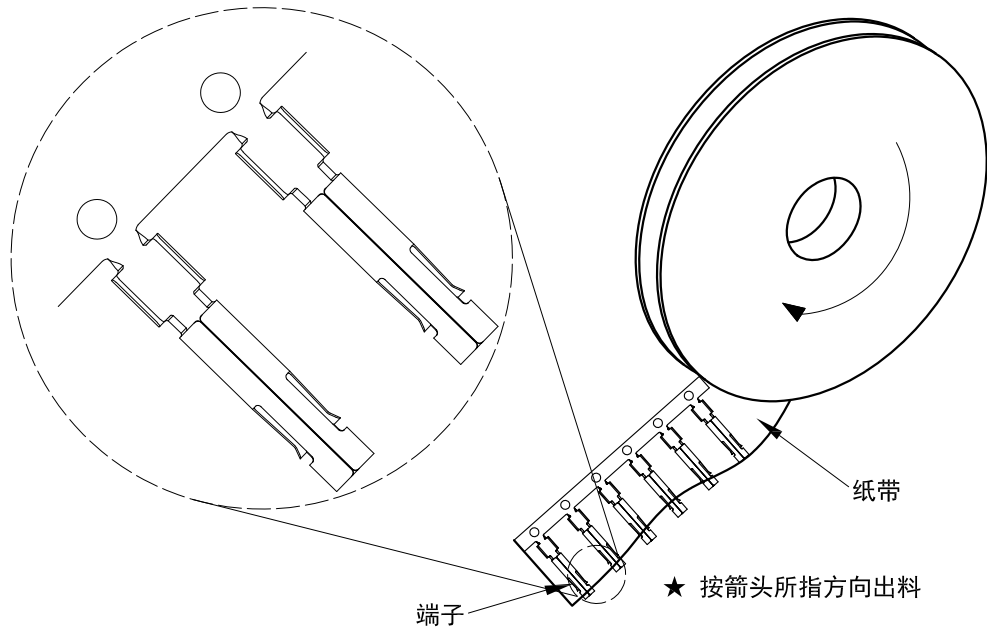
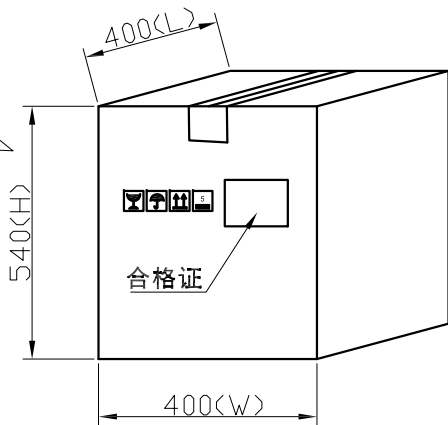
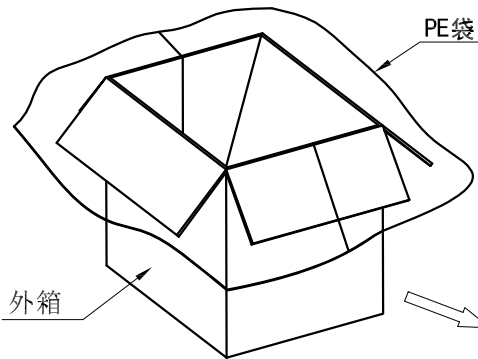
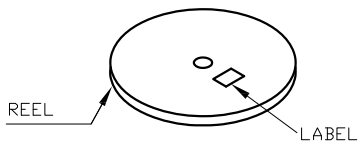
签字

日期

Part No.				MATERIAL		FINISH		Section Area		Qty/reel									
D158C-T-40-B10				—		BRASS		TIN		0.2 to 0.75mm ²		7000pcs							
未注公差				LHE[®] 浙江联和电子有限公司 ZHEJIANG LIANHE ELECTRONICS CO., LTD															
X. ° ±3° X. X ° ±0.5°																			
>0-3		>3-18		>18-50		>50-120		单位		比例		Design Units		SIZE		页码			
±0.12		±0.15		±0.3		±0.5		MM Only		—		METRIC		A4					
制作		审核		批准		材料		图号						Part No.					
						见图解		品名		D158C-T									

D158C端子承认图面

REV	SYM	REVISION RECORD	DR.	APPR.	DATE
A/0		原始版本			20171227
A/1					



NOTES:

1. 插片产品的尺寸图请参照D158C-T图纸,
2. 冲压件表面应光洁平整无毛刺及裂痕;
3. 镀层表面应清洁、均匀一致, 无腐蚀现象;
4. 零件弯曲处不得有机械损伤, 切口处无严重毛刺;
5. 产品符合ROHS2.0相关规定。

3	纸盘			
2	纸带	瓦楞纸		
1	插片	黄铜 Brass	镀镍亮锡 Tin-Nickel Plating	
序号	名称/料号	材料	数量	附注

未注公差				LHE® 浙江联和电子有限公司			
X. ° ±3° X. X° ±0.5°				ZHEJIANG LIANHE ELECTRONICS CO., LTD			
>0-3	>3-18	>18-50	>50-120	单位	比例	Design Units	SIZE 页码
±0.12	±0.15	±0.3	±0.5	MM Only	—	METRIC	A4
制作	审核	批准	材料	图号	Part No.		
见图解				品名	D158C-T盘装示意图		

版本号
Version Number: A

产品编码
Part Number: D158C-I

☆ 逐批交货检验

检验办法 Inspection method				
序号	项目 Item	测试条件 Test Condition	检查水平 Inspection level	合格质量水平 quality level
A	外观 Appearance	1	II	0.25
B	结构尺寸 Structure size	2	S-3	0.65
C	互换性 Exchangeability	3	5	0
D	插拔力 Single contact Force	12		
E	可焊性 Solderability	7		
F	接触电阻 Contact Resistance	4		
G	耐电压 Dielectric Strength	6		
H	机械振动 Vibration	10		
I	盐雾 Salt Spray	11		

经逐批检验合格的产品可交付使用

☆ 标志、包装、运输和贮存

1. 标志

连接器上印有清晰的制造厂标志，浙江联和电子有限公司生产的连接器产品的标志是“LHE”注册商标；

LHE

2. 包装

端子产品为圆形纸盘包装，塑件产品为薄膜袋包装，各包装上均标示产品合格证和环保标志；外包装为纸箱，产品在箱内密封。

3. 运输

允许用任何方式运输，但应避雨、防湿，轻拿轻放，防止受机械损伤。

4. 贮存

4.1 包装完毕的连接器产品应在环境温度为-10~+40℃，相对湿度不大于80%，周围空气中没有酸性、碱性及其他腐蚀性气体的库房中贮存，包装箱堆放高度不得超过4层。

4.2 贮存期

贮存期为12个月，超过12个月需重新检查。

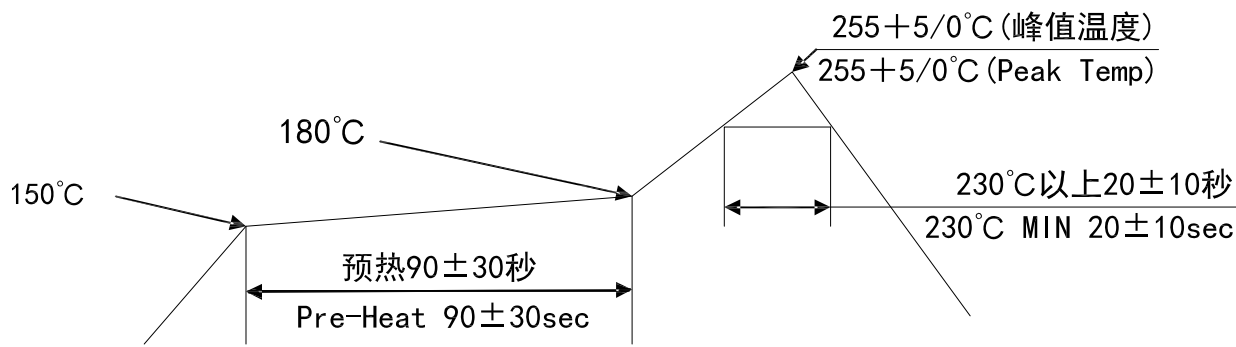
焊接条件

Conditions for soldering

版本号
Version Number: A
产品编码
Part Number: D158C-I

Pb-free炉温要求 Pb-free reflow profile requirements

参数 Parameter	参考 Reference	规格 Specification
平均温度梯度预热 Average Temperature Gradient Preheating		2.5°C/s
浸泡时间 Soak time	tsoak 2-3	minutes
150°C以上时间 Time above 150°C	T1	60s
180°C以上时间 Time above 180°C	T2	50s
250°C以上时间 Time above 250°C	T3	2±0.5s
焊接温度 Peak temperature in reflow	Tpeak	255°C (-0/+5°C)
温度梯度的冷却 Temperature gradient in cooling		Max -5°C/s



温度条件图

TEMPERATURE CONDITION GRAPH

注：该剖面的最低要求耐热性的评价焊接部件。传热方法用于回流焊热空气对流。实际的空气温度用来实现规定的轮廓，很大程度上取决于回流装置。

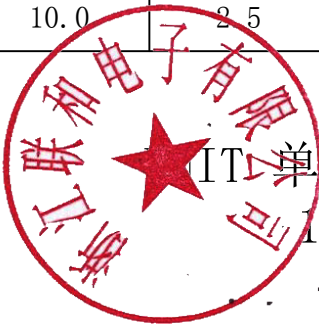
Note: The minimum required heat resistance of the section is to evaluate the welded components. Heat transfer method is used for hot air convection in reflow welding. The actual air temperature used to achieve the specified profile depends largely on the reflux device.

SH1.0单排所有孔位插拔力测试

NO. OF CIRCUITS 极数	AT INITIAL 首次插拔力（初始值）		AT 30 TH 30次插拔后	NO. OF CIRCUITS 极数	AT INITIAL 首次插拔力（初始值）		AT 30 TH 30次插拔后
	I. F. (MAX) 插入力	W. F. (MIN) 拔出力	W. F. (MIN) 拔出力		I. F. (MAX) 插入力	W. F. (MIN) 拔出力	W. F. (MIN) 拔出力
02	0.4	0.1	0.02	17	3.4	0.85	0.77
03	0.6	0.15	0.07	18	3.6	0.9	0.82
04	0.8	0.2	0.12	19	3.8	0.95	0.87
05	1.0	0.25	0.17	20	4.0	1.0	0.92
06	1.2	0.3	0.22	21	4.2	1.05	0.97
07	1.4	0.35	0.27	22	4.4	1.1	1.02
08	1.6	0.4	0.32	23	4.6	1.15	1.07
09	1.8	0.45	0.37	24	4.8	1.2	1.12
10	2.0	0.5	0.42	25	5.0	1.25	1.17
11	2.2	0.55	0.47	26	5.2	1.3	1.22
12	2.4	0.6	0.52	27	5.4	1.35	1.27
13	2.6	0.65	0.57	28	5.6	1.4	1.32
14	2.8	0.7	0.62	29	5.8	1.45	1.37
15	3.0	0.75	0.67	30	6.0	1.5	1.42
16	3.2	0.8	0.72				

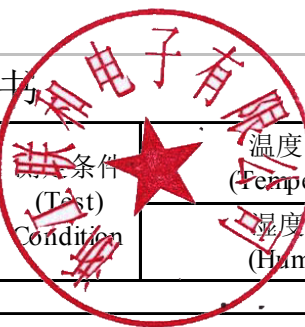
SH1.0双排所有孔位插拔力测试

NO. OF CIRCUITS 极数	AT INITIAL 首次插拔力（初始值）		AT 30 TH 30次插拔后	NO. OF CIRCUITS 极数	AT INITIAL 首次插拔力（初始值）		AT 30 TH 30次插拔后
	I. F. (MAX) 插入力	W. F. (MIN) 拔出力	W. F. (MIN) 拔出力		I. F. (MAX) 插入力	W. F. (MIN) 拔出力	W. F. (MIN) 拔出力
10×2	4.0	1.0	0.92	20×2	8.0	2.0	1.92
15×2	6.0	1.5	1.42	25×2	10.0	2.5	2.42



单位: kgf
1kgf=10N

信 赖 性 试 验 成 绩 书



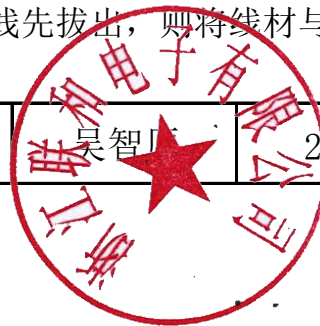
品名 (DESCRIPTION)	1.0mm Connector	测定者 (Inspector)	吴智原	测试条件 (Test Condition)	温度: 22℃ (Temperature)
番号 (MODEL NO.)	A1001	日期 (Date)	2017.05.25		湿度: 65% (Humidity)

试验项目 (Test Title)	规格 (Specification)		测定值(Data)					COM
			X1	X2	X3	X4	X5	
接触电阻 (C.R.)	20mΩ (Max)		14.6	15.3	17.5	16.5	15.9	ok
绝缘电阻 (I.C.)	100MΩ (Min)		∞	∞	∞	∞	∞	ok
耐电压(Dielectric Withstanding Voltage)	使用中不可有异常现象 (No physical damage shall be observed)		良好 (Good)	良好 (Good)	良好 (Good)	良好 (Good)	良好 (Good)	ok
脱出力 (PIN Retention)	8N (Min)		9.6	10.5	10.3	11.7	10.7	ok
可焊性 (Altitude low temperature)	接触电阻 (C.R.)	40mΩ (Max)	18.6	18.9	17.8	18.5	19.5	ok
	绝缘电阻 (I.C.)	100MΩ (Min)	∞	∞	∞	∞	∞	ok
耐热性 (Resistance to high temperature)	接触电阻 (C.R.)	40mΩ (Max)	17.8	18.5	19.6	18.6	17.5	ok
	绝缘电阻 (I.C.)	100MΩ (Min)	∞	∞	∞	∞	∞	ok
耐湿性 (Humidity)	接触电阻 (C.R.)	40mΩ (Max)	20.5	19.8	20.5	21.5	20.9	ok
	绝缘电阻 (I.C.)	1000MΩ (Min)	∞	∞	∞	∞	∞	ok
温度上升 Temperature Rise	30℃ MAX		Passed	Passed	Passed	Passed	Passed	ok
	符合图纸 Meets Drawing		Passed	Passed	Passed	Passed	Passed	ok
热冲击试验 (Thermal shock)	接触电阻 (C.R.)	40mΩ (Max)	19.5	20.6	19.7	18.5	19.5	ok
	绝缘电阻 (I.C.)	100MΩ (Min)	∞	∞	∞	∞	∞	ok

浙江联和电子有限公司

检测报告

产品名称	SH1.0-YT与SH1.0-Y				测试组数		2组（每组5个）					
测试方法	将连接器固定在测力计上，再对着连接器轴线方向施加推拉力											
测试标准	胶壳与端子的插入力≤5N、拔出力≥8N											
测试数据	1		2		3		4		5		最小值	最大值
第一组	插入力	1.5	插入力	1.5	插入力	1	插入力	1	插入力	1	1	1.5
	拔出力	10	拔出力	11	拔出力	14	拔出力	12.5	拔出力	13	10	14
第二组	插入力	1.5	插入力	1	插入力	1	插入力	1.5	插入力	2	1	2
	拔出力	11	拔出力	11.5	拔出力	13	拔出力	14	拔出力	12	11	14
备注：数据会随湿度变化，不宜长时间放在过于潮湿的环境。拔出时线先拔出，则将线材与端子的固定力视为拔出力。单位N												
综合判定	合格						测试员		吴智康		2019.08.09	



浙江联和电子有限公司

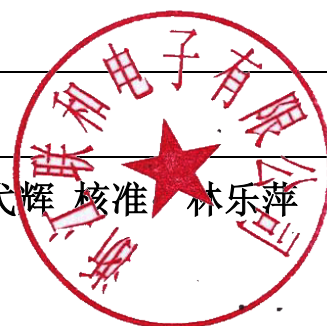
盐雾试验报告

厂址：乐清市淡溪镇石埭山

电话：0577-61315822；FAX：0577-61315757

试验日期：2019年 09 月 04 日			试验号码：201909048022		
试验方法：NSS			试验标准：GB/T10125-1997		
客户名称：					
试 样	品 名	金属端子	镀层厚度	Cu:1~2.5	μm
	材 质	CuZn		Sn:3~5	3μm
	试验前外观		银白色	数 量	30 枚
试 验 条 件	试验时间：04日 16 时 至 05 日 8 时				
	喷雾时间：16 小时		保温时间：0 小时		
	试验室温度：37±1℃		压力桶温度：45±1℃		
	试验室相对湿度：65%~75%		大气压：101~102kpa		
	NACL 浓度：5%±0.5%		PH 值：7.0（中性）		
试 验 描 述	试验后外观	合格			
	去除腐蚀产物后外观	正常			
试 验 结 果	合格				
备 注					

试验单位：浙江联和电子有限公司 试验员：李弋辉 核准：林乐萍



ECBT2.E364711 - Connectors for Use in Data, Signal, Control and Power Applications - Component

Connectors for Use in Data, Signal, Control and Power Applications - Component

See General Information for Connectors for Use in Data, Signal, Control and Power Applications - Component

ZHEJIANG LIANHE ELECTRONIC CO LTD

E364711

Chuangxin Road, YueQing Bay Port Zone

Yueqing, Zhejiang 325600 CHINA

Connector, Model(s) 1.58-LHE f/b 2 , f/b 1 thru 12, f/b A2 or AW., 1.58-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 1.58-LHE followed by 2, followed by 1 thru 12, followed by A(T).

Connector, Model(s) 1.58-LHE, f/b 2 thru 6 , f/b A(T), 1.58-LHE, f/b 2 thru 6, f/b Y(T), 1.58-LHE, f/b 2, f/b 1 thru 12 , f/b Y(T), 2510-LHE f/b 2 , f/b 1 thru 12, f/b A2 or AW, 2510-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 2510-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) 2510-LHE, f/b 2 thru 6 , f/b A(T), 2510-LHE, f/b 2 thru 6, f/b Y(T), 2510-LHE, f/b 2, f/b 1 thru 12 , f/b Y(T), 5.08-LHE f/b 2 , f/b 1 thru 12, f/b A2 or AW, 5.08-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 5.08-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) 5.08-LHE, f/b 2 thru 6 , f/b A(T), 5.08-LHE, f/b 2 thru 6, f/b Y(T), 5.08-LHE, f/b 2, f/b 1 thru 12 , f/b Y(T), 51005-LHE f/b 2 , f/b 1 thru 12, f/b A2 or AW, 51005-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 51005-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) 51005-LHE, f/b 2 thru 6 , f/b A(T), 51005-LHE, f/b 2 thru 6, f/b Y(T), 51005-LHE, f/b 2, f/b 1 thru 12 , f/b Y(T), 51006-LHE f/b 2 , f/b 1 thru 12, f/b A2 or AW, 51006-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 51006-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) 51006-LHE, f/b 2 thru 6 , f/b A(T), 51006-LHE, f/b 2 thru 6, f/b Y(T), 51006-LHE, f/b 2, f/b 1 thru 12 , f/b Y(T), 5102-LHE f/b 2 , f/b 1 thru 12, f/b A2 or AW, 5102-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 5102-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) 5102-LHE, f/b 2 thru 6 , f/b A(T), 5102-LHE, f/b 2 thru 6, f/b Y(T), 5102-LHE, f/b 2, f/b 1 thru 12 , f/b Y(T), 5240-LHE f/b 2 , f/b 1 thru 12, f/b A2 or AW, 5240-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 5240-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) 5240-LHE, f/b 2 thru 6 , f/b A(T), 5240-LHE, f/b 2 thru 6, f/b Y(T), 5240-LHE, f/b 2, f/b 1 thru 12 , f/b Y(T), 5500-LHE f/b 2 , f/b 1 thru 12, f/b A2 or AW, 5500-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 5500-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) 5500-LHE, f/b 2 thru 6 , f/b A(T), 5500-LHE, f/b 2 thru 6, f/b Y(T), 5500-LHE, f/b 2, f/b 1 thru 12 , f/b Y(T), 5557 followed by 2 thru 6, followed by A(T), 5557 followed by 2 thru 6, followed by A2 or AW, 5557 followed by 2 thru 6, followed by Y(T)

Connector, Model(s) 5557 followed by 2, followed by 1 thru 12, followed by A(T).

Connector, Model(s) 5557 followed by 2, followed by 1 thru 12, followed by A2 or AW

Connector, Model(s) 5557 followed by 2, followed by 1 thru 12, followed by Y(T)

Connector, Model(s) 5559-LHE f/b 2 , f/b 1 thru 12, f/b A2 or AW, 5559-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 5559-LHE followed by 2, followed by 1 thru 12, followed by A(T).

Connector, Model(s) 5559-LHE, f/b 2 thru 6 , f/b A(T), 5559-LHE, f/b 2 thru 6, f/b Y(T), 5559-LHE, f/b 2, f/b 1 thru 12 , f/b Y(T), 5566-LHE f/b 2 , f/b 1 thru 12, f/b A2 or AW, 5566-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 5566-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) 5566-LHE, f/b 2 thru 6 , f/b A(T), 5566-LHE, f/b 2 thru 6, f/b Y(T), 5566-LHE, f/b 2, f/b 1 thru 12 , f/b Y(T), 5569-LHE f/b 2 , f/b 1 thru 12, f/b A2 or AW, 5569-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 5569-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) 5569-LHE, f/b 2 thru 6 , f/b A(T), 5569-LHE, f/b 2 thru 6, f/b Y(T), 5569-LHE, f/b 2, f/b 1 thru 12 , f/b Y(T), 5600-LHE f/b 2 , f/b 1 thru 12, f/b A2 or AW, 5600-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 5600-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) 5600-LHE, f/b 2 thru 6 , f/b A(T), 5600-LHE, f/b 2 thru 6, f/b Y(T), 5600-LHE, f/b 2, f/b 1 thru 12 , f/b Y(T), 63080-LHE f/b 2 , f/b 1 thru 12, f/b A2 or AW, 63080-LHE f/b 2 thru 6, f/b A2 or AW

Connector, Model(s) 63080-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) 63080-LHE, f/b 2 thru 6 , f/b A(T), 63080-LHE, f/b 2 thru 6, f/b Y(T), 63080-LHE, f/b 2, f/b 1 thru 12 , f/b Y(T), B2502 followed by 2 thru 16, followed by Y(T), BH3.5-2A(T), BH3.5-2Y(T), MX3.0 followed by 2 thru 12, followed by A(T), MX3.0 followed by 2 thru 12, followed by A2 or AW, MX3.0 followed by 2 thru 12, followed by Y(T)

Connector, Model(s) MX3.0 followed by 2, followed by 1 thru 12, followed by A(T).

Connector, Model(s) MX3.0 followed by 2, followed by 1 thru 12, followed by A2 or AW

Connector, Model(s) MX3.0 followed by 2, followed by 1 thru 12, followed by Y(T)

Connector, Model(s) PA-LHE f/b 2, f/b 1 thru 12, f/b Y(T), PA-LHE followed by 2 thru 12, followed by A(T)

Connector, Model(s) PA-LHE followed by 2 thru 12, followed by A2 or AW

Connector, Model(s) PA-LHE followed by 2 thru 12, followed by Y(T)

Connector, Model(s) PA-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) PA-LHE followed by 2, followed by 1 thru 12, followed by A2 or AW

Connector, Model(s) PH, PHB, XHB, JC25, SCN followed by -2 thru -20, followed by Y(T), A, AW or AWD

Connector, Model(s) PHB followed by 2 thru 16, followed by Y(T). followed by 2 thru 16, followed by AWD, A, AW

Connector, Model(s) Series 1.25, 1254, 1255 followed by -2 thru -25, followed by Y(T), A or AW

Connector, Model(s) Series 5264 followed by -2 thru -16, followed by Y(T), A or AWD

Connector, Model(s) SM followed by -2 thru -18, followed by Y(T) or A(T)

Connector, Model(s) VH, 3.96 followed by -2 thru -16, followed by Y(T), A, AW or AWG

Connector, Model(s) XA-LHE f/b 2, f/b 1 thru 12, f/b Y(T), XA-LHE followed by 2 thru 12, followed by A(T)

Connector, Model(s) XA-LHE followed by 2 thru 12, followed by A2 or AW

Connector, Model(s) XA-LHE followed by 2 thru 12, followed by Y(T)

Connector, Model(s) XA-LHE followed by 2, followed by 1 thru 12, followed by A(T)

Connector, Model(s) XA-LHE followed by 2, followed by 1 thru 12, followed by A2 or AW

Connector, Model(s) XH followed by -2 thru -20, followed by Y(T), A, AW, AWGD, AWD or AWGDJ

Connector, Model(s) ZH followed by 2 thru 16, followed by AWD or A, ZH followed by 2 thru 16, followed by Y(T).

Model(s) 1.25, followed by -2 thru -16, followed by AB or AWB

Model(s) 51146 or FI-S, followed by -2 thru -16, followed by AB or AWB

Model(s) A5001, followed by -2 thru -7, followed by Y, Y(T), AD or AWD

Model(s) B2501-LHE, A2004-LHE, A4203-LHE, PHR-LHE, PHD-LHE, CH2.5-LHE, DF11-LHE, PHSD-LHE, A5001-LHE, 35155-LHE, 35156-LHE, 5195-LHE, 5196-LHE, followed by 2 thru 16, followed by Y(T)

Model(s) BHS-LHE, SMH250-LHE, SMH200-LHE, L6.2-LHE, 1806-LHE, 2060-LHE, 2541-LHE, JC15-LHE, XHD-LHE, followed by -2, followed by A(T), or Y(T)

Model(s) JWPF-LHE, B2541-LHE, NV-LHE, DV-LHE, SGN-LHE, SJN-LHE, SDN-LHE, SIN-LHE, 35150-LHE, 35151-LHE, 35180-LHE, 35182-LHE, 35524-LHE, 35965-LHE, RCY-LHE, LC-LHE, VR-LHE, SHJ-LHE, SHL-LHE, DF19-LHE, ACH-LHE, DF13-LHE, IL-Z-LHE, 51146-LHE, SATA-LHE, XSR-LHE, SUR-LHE, SUH-LHE, ZE-LHE, ZND-LHE, ZPD-LHE, A1502-LHE, SFH-LHE, 51004-LHE, PUD-LHE, A20010-LHE, 35507-LHE, DF3-LHE, PND-LHE, RE-LHE, RA-LHE, RF-LHE or A3963, followed by -2 thru -15, followed by Y(T), YB(T) or YC(T), A, A-K, AW, AW-K, AD, AD-K, AWGD, AWGD-K, AQ, AQ-K, AWQ, AWQ-K, AD(BH) or AD(BH)-K.

Model(s) PH, followed by -2 thru -16, followed by AB or AWB

Model(s) PHB, SZN-LHE, SAN-LHE, JC20-LHE, EH-LHE, EI-LHE, EL-LHE, S-EL-LHE, followed by 2 thru 16, followed by AWD, A, AW

Model(s) PHB, SZN-LHE, SAN-LHE, JC20-LHE, EH-LHE, EI-LHE, EL-LHE, S-EL-LHE, followed by 2 thru 16, followed by Y(T)

Model(s) PHB, XH, XHB or XHBD, followed by -2 thru -16, followed by AB or AWB.

Model(s) RAST 5-LHE TAB HEADER ASSY , TH, Vertical, Cat. Nos. 1969738-LHE, 1969740-LHE, 1971845-LHE, 1971846-LHE, 1971895-LHE, 1971896-LHE, 1971946-LHE thru 1971949-LHE, 1971954-LHE thru 1971957-LHE, 2232008-LHE thru 2232011-LHE, 2232000-LHE thru 2232003-LHE, 2232016-LHE thru 2232019-LHE, 1971962-LHE thru 1971965-LHE, 2232024-LHE thru 2232027-LHE, 2232289-LHE thru 2232292-LHE, 2232043-LHE thru 2232074-LHE, 2232298-LHE thru 2232301-LHE, 2232511-LHE, 2232532-LHE, 2232557-LHE, 2232559-LHE, 2232560-LHE, 2232562-LHE, 2232563-LHE, 2232565-LHE, 2232566-LHE, 2232568-LHE, 2232569-LHE, 2232571-LHE, 2232572-LHE, 2232574-LHE, 2232575-LHE, 2232577-LHE, 2232578-LHE, 2232580-LHE, 2232581-LHE, 2232583-LHE, 2232584-LHE, 2232586-LHE, 2232587-LHE, 2232589-LHE, 2232590-LHE, 2232592-LHE, 2232593-LHE, 2232595-LHE, 2232596-LHE, 2232598-LHE, 2232599-LHE, 2232601-LHE, 2232602-LHE, 2232604-LHE, 2232605-LHE, 2232607-LHE, 2232608-LHE, 2232611-LHE thru 2232682-LHE, 2292457-LHE, 2292458-LHE, may incorporate prefix and/or suffix number.), followed by -2 thru -7, followed by Y, Y(T), AD or AWD.

Model(s) SY, followed by -2, followed by Y, Y(T), A or A(T)

Model(s) SYP, SYR, BH4.0-LHE, A10001-LHE, A7501-LHE, A8001-LHE, C2541-LHE, C2542-LHE, D250R-LHE, D280K-LHE, D300R-LHE, D350R-LHE, D400B-LHE, D430R-LHE, D470G-LHE, D480J-LHE, D480K-LHE, D480N-LHE, D480Q-LHE, D520H-LHE, D520K-LHE, D520Q-LHE, D620G-LHE, D630J-LHE, D630N-LHE, D630Q-LHE, D700G-LHE, F001-LHE, F002-LHE, HIF3-LHE, MC100-LHE, MC100-LHE, ME020-LHE, ME010-LHE, F2541-LHE, D2301-LHE, 1719057-LHE, 1719059-1-LHE, P0011-LHE, P0012-LHE, P0013-LHE, C6001-LHE, D2201-LHE, D2202-LHE or P0001-LHE, followed by -2, followed by Y, Y(T), A or A(T).

Model(s) VL-LHE , YL-LHE, SL-LHE, FL-LHE, YHD200-LHE, HA-LHE, LGC-LHE, JR-LHE, SP-LHE, 5025-LHE, followed by 2, followed by 1 thru 12, followed by A(T), Y(T), A2 or AW

Model(s) VL-LHE, YL-LHE, SL-LHE, FL-LHE, YHD200-LHE, HA-LHE, LGC-LHE, JR-LHE, SP-LHE, 5025-LHE, followed by 2 thru 12, followed by A(T), Y(T), A2 or AW

Model(s) XHD, XHE or XHQ, followed by -2 thru -15, followed by Y(T), YB(T) or YC(T), A, A-K, AW, AW-K, AD, AD-K, AWGD, AWGD-K, AQ, AQ-K, AWQ, AWQ-K, AD(BH) or AD(BH)-K.

Model(s) ZH, followed by -2 thru -16, followed by AB or AWB

Model(s) ZHR-LHE, SH-LHE, GH-LHE, NH-LHE, C1251-LHE, DF14-LHE, 5501-LHE, 75416-LHE, 543-LHE, followed by 2 thru 16, followed by AWD or A

Model(s) ZHR-LHE, SH-LHE, GH-LHE, NH-LHE, C1251-LHE, DF14-LHE, 5501-LHE, 75416-LHE, 543-LHE, followed by 2 thru 16, followed by Y(T)

Marking: Company name or trademark  , model designation and the Recognized Component Mark,  on the device or carton.

Last Updated on 2020-02-20

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Certificate of Registration

This certifies that the Quality Management System of

Zhejiang Lianhe Electronics Co., Ltd.

Leshang Pioneer Park, Yueqingwan Area,
Yueqing City, Zhejiang Province, China 325600

Has been assessed by NSF-ISR and found to be in conformance to the following standards(s):

IATF 16949:2016

Scope of Registration:

Design and Manufacturing of Connector



IATF Certificate Number:

0356219

Certificate Number:

CNIATF038887

Certificate Issue Date:

28-JUN-2019

Registration Date:

26-JUN-2019

Expiration Date*:

25-JUN-2022

Tom Chestnut,
Sr Vice President - ISR,
NSF-ISR, Ltd.

NSF International Strategic Registrations

789 North Dixboro Road, Ann Arbor, Michigan 48105 | (888) NSF-9000 | www.nsf-isr.org

Authorized Registration and/or Accreditation Marks. This certificate is property of NSF-ISR and must be returned upon request.

*Company is audited for conformance at regular intervals. To verify registrations call (888) NSF-9000 or visit our web site at www.nsf-isr.org



产品认证证书

证书编号: CQC17134174484

申请人名称及地址

浙江联和电子有限公司
浙江省乐清市乐清湾港区乐商创业园

制造商名称及地址

浙江联和电子有限公司
浙江省乐清市乐清湾港区乐商创业园

生产企业名称及地址

浙江联和电子有限公司 (V028069)
浙江省乐清市乐清湾港区创新路 8 号

产品名称和系列、规格、型号

连接器聚酰胺 66 (PA66)

型号见附件, 材料名称: 聚酰胺 (PA66), 材料牌号: A3RV0, 全色, 球压: 200℃, 灼热丝可燃性指数 (GWFI): 960/0.3, 灼热丝起燃温度 (GWIT): 960/0.3, 燃烧等级: V-0@0.3mm, CTI600, 红外光谱, 差示扫描量热和热重分析见报告 00601-2019134003025

产品标准和技术要求

GB/T 5169.21-2017, GB/T 5169.12-2013, GB/T 5169.13-2013, GB/T 5169.16-2017, GB/T 4207-2012, GB/T 6040-2002, GB/T 19466.1-2004, GB/T 19466.2-2004, GB/T 19466.3-2004, ISO 11358-1:2014

认证模式

产品检测+获证后监督

上述产品符合 CQC13-036047-2009 认证规则的要求, 特发此证。

发证日期: 2019 年 09 月 29 日

本证书的有效性依据发证机构的定期监督获得保持。

本证书为变更证书, 证书首次颁发日期: 2017 年 07 月 27 日

主任: _____

陆杨



中国质量认证中心

中国·北京·南四环西路 188 号 9 区 100070

<http://www.cqc.com.cn>

C 0155366

VERIFICATION OF LVD COMPLIANCE

Applicant: Zhejiang Lianhe Electrical Co., Ltd.
 Manufacturer: Houyu village, Shifan town, Yueqing city, Zhejiang province, China.
 Product Description: Same as applicant
 Model No: Connector Terminal
 A1001, A1002, A1003, A1251, A1252, A1253, A1254, A1255,
 A1256, A1257, A1501, A1502, A1503, A2001, A2002, A2003,
 A2004, A2005, A2006, A2007, A2501, A2502, A2503, A2504,
 A2505, A2506, A2507, A2541, A2542, A2543, A2544,
 A2545, A3961, A3962, A3963, A3564, A5081, A5082, B1501,
 B1502, B2001, B2002, B2501, B2502, C01581, C01582, C1251,
 C2001, C2002, C2501, C2502, C2505, C2506, C3001, C3002,
 C3003, C3004, C3005, C3006, C3501, C3502, C3701, C3702,
 C4001, C4002, C4141, C4142, C4201, C4202, C4203, C4204,
 C4601, C4602, C4501, C4502, C4503, C4504, C5001, C5002,
 C5031, C5032, C6201, C6202, C6351, C6352, C6701, C6702,
 D2801, D2802, D2803, D4801, D4802, D4803, D4804, D6301,
 D6302, D6303

Sufficient samples of the product have been tested and found to be in conformity with

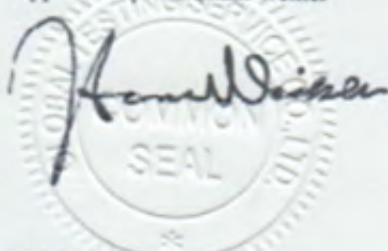
Test Standard: EN 60320-1:2001/A1:2007
 EN 60529:1991/A1:2000

As shown in the
 Test Report Number(s): TLZJ1411264692
 Date of issue: November 27, 2014

Conclusion

This Verification of LVD Compliance has been granted to the applicant based on the results of tests, performed by laboratory of Global Testing Services Co., Ltd on sample of the above-mentioned product in accordance with the provisions of the relevant specific standards and the Low Voltage Directive 2014/35/EU. The CE marking as shown below can be affixed, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives. The affixing of the CE marking presumes in addition that conditions the conditions in annexes III and IV of the Directive are fulfilled.

Approved by: Hermann Weiher



Global Testing Services Co., Ltd
 E-mail: info@gts-lab.com http://www.gts-lab.com
 Room 1501-1502, No. 520 Yishan Rd., Xuhui District, Shanghai, 200235 China



For and on behalf of
 Global Testing Services Co., Ltd





QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 00117Q310977R2S/3302

We hereby certify that

Zhejiang LianHe Electronics Co., Ltd.

Unified Social Credit Code/ Organization Code certificate: 913303825540033504

Registration Address: Houyu Village, Shifan Town, Yueqing City, Wenzhou City, Zhejiang Province, China

Production Address: Yueshang Pioneer Park, Yueqing Bay Port Area, Yueqing City, Wenzhou City, Zhejiang Province China

by reason of its
Quality Management System
has been awarded this certificate for compliance with the standard
GB/T 19001-2016 / ISO 9001:2015

The Quality Management System Applies in the following area:

The Design, Production of Electronics Connector

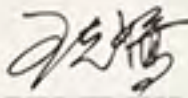
Certified since: February 13, 2012 Valid from: December 11, 2017 Valid until: December 14, 2020

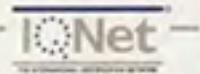
After a surveillance cycle, the certificate is valid only when used together with an Acceptance Notice of Surveillance Audit issued by CQC.
Please access www.cqc.com.cn for checking validity of the certificate.

This certificate and its relevant information can query in the website of Certification and Accreditation Administration of the People's Republic of China (www.cnca.gov.cn).



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C001-M


Signed by: Wang Kejian



CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan(the South Fourth Ring Road) Xilu(West Road), Beijing 100070,China
<http://www.cqc.com.cn>



THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

IQNet and
CQC
hereby certify that the organization

Zhejiang LianHe Electronics Co., Ltd.

Registration Address: Houyu Village, Shifan Town, Yueqing City, Wenzhou City, Zhejiang Province, China
Production Address: Yueshang Pioneer Park, Yueqing Bay Port Area, Yueqing City, Wenzhou City, Zhejiang Province China

For the following field of activities

The Design, Production of Electronics Connector

**Has implemented and maintains a
Management System**

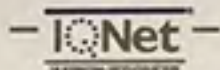
Which fulfils the requirements of the following standard

GB/T 19001-2016 / ISO 9001:2015

Issued on: December 11, 2017

Validity date: December 14, 2020

Registration Number: 00117Q310977R2S/3302



Michael Drechsel
President of IQNet

Wang Kejiao
President of CQC



IQNet Partners*:

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CISQ Italy CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany
FCAV Brazil FONDONORMA Venezuela ICONTEC Colombia IMNC Mexico Inspecta Certification Finland IRAM Argentina
JQA Japan KFQ Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland PCBC Poland
Quality Austria Austria RR Russia SII Israel SIQ Slovenia SIRIM QAS International Malaysia
SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia
IQNet is represented in the USA by: AFNOR Certification, CISQ, DQS Holding GmbH and NSAI Inc.

* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com

测试报告

No. SHAEC2108746204

日期: 2021年05月12日 第1页,共6页

浙江联和电子有限公司
浙江省乐清市乐清湾港区

以下测试之样品是由申请者所提供及确认: 端子针

SGS工作编号: SP21-013321 - SH

型号: xh

客户参考信息: 见附件

样品接收日期: 2021年05月08日

测试周期: 2021年05月08日 - 2021年05月12日

测试要求: 根据客户要求测试

测试方法: 请参见下一页

测试结果: 请参见下一页

结论: 基于所送样品进行的测试, 镉、铅、汞、六价铬的测试结果不超过客户限值。

通标标准技术服务(上海)有限公司
授权签名

兰柳珍

Jenny Lan 兰柳珍
批准签署人

scan to see the report



SHAEC2108746204



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测试报告

No. SHAEC2108746204

日期: 2021年05月12日 第2页,共6页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	SHA21-087462.001	银色金属

备注:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

镉(Cd), 铅(Pb), 汞(Hg), 六价铬(Cr(VI))

测试方法: 参考IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013 和 IEC 62321-7-1:2015, 采用ICP-OES和UV-Vis进行分析。

测试项目	限值	单位	MDL	001
镉 (Cd)	75	mg/kg	2	ND
铅(Pb)	600	mg/kg	2	11
汞 (Hg)	600	mg/kg	2	ND
六价铬(Cr(VI))▼	-	µg/cm²	0.10	ND

备注:

- (1) 最大允许限值来源于客户要求。
IEC 62321 系列等同于 EN 62321 系列
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (2) ▼ = a. 当六价铬的浓度高于0.13 µg/cm²时, 样品为阳性, 即含有六价铬;
b. 当六价铬的浓度为ND(低于0.10 µg/cm²)时, 样品为阴性, 即未检测到六价铬;
c. 当六价铬的浓度介于0.10 µg/cm²与0.13 µg/cm²之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果;
由于未获知样品的存储条件和生产日期, 样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。
除非另有说明, 此报告结果仅对测试的样品负责。本报告未经本公司书面许可, 不可部分复制。
检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



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附件

1.0, SH, SHD, 1.25, 51021, DF14, DF13, GH, ZH, PH, PHB, PA, PHSD, DF11, C1251, 51047, 51146, FI-S, PHD, YHD200, PA, SMP, SMW, SMH, SMH200, SMH200-H, YH200, 20039WR, 杜邦2.0, XH/TJC3, XA, HA, XHB, XHD, XHE, EH, EI, 小四P, 5263, 5264, 5267, 5268, SZN, SAN, SCN, SCND, JC15, JC20, JC25, 5102, 5240, SMH250, SMP250, SMW250, 25048HS, 25045HP, SM, TJC8, 杜邦2.54, TJC8A, 杜邦带锁, TJC8B, TJC8H, 5051, 2510, 美尚美, 43640, 43645, 43020, 43025, 5500, 5600, VH, VHR, YH396, VHR, 35156, 2139, 3.96, 90331, 5195, 5196, 39612, FL, 5557, 5559, 5566, 5569, SL, RV42, EL, YL, 小EL, 8981, 大四P, 5058, 5.08, L6.2, VL, VLP/VLR, TJC2, TJC2A, TJC2B, TJC4, TJC1, 1806, MX3.0, 1.58, 51005, 51006, BH3.5, BH4.0, 63080, 51004, TJC15, A4203, CL014, OTP, MKH, SMP, Cy-X201, 35108, 35150, 35151, 35224, 35180, 35965, 42021, 42022, 42002, 35955, SA, SCS, 35189, 35196, CH10, CH2.5, 543, SLP, SLR, YHL500, YWL500, FFC, PFC, 20030, 250, LGC, S11, YH025, 35155, 25415, 5197, 5198, 110, 2.8, 6.3, SCS

NH, XHQ, 42474, 42475, QH, NV, 50300, 50301, 5025, 3191, 5199, STV5, YHL500, YWL500, F001, F002, D440, D600, D620, D700, D220, D230, D250, D480, D520, D280, D630, D430, D400, D450, U-T, F1001-T, SIN-T, 774, 773, 778, 294, TU-JTK(SV), TU(SNB), TO-JTK(RV), MDD, FDD, TG-JT, IDC, AUTO, CONNECTOR, DJ70, DT04, DT06, UY/K1, UY2/K2, UR/K3, UR2, UB/K4, UB2A, UG/K5, U1R/K8, U1B/K9, HJKI10, UDW2, 314, A5001, A5002, MC100, FPC2.54, SGN, PHR, ZHR, 205, 5.2, C1801, C1802, 2060, A5003, ME020, ME010, FPC/FPC, B2541, 1971845, 1971846, 2232043, 2232044, 2232511, 1971895, 1971896, JWPF, SY, Molex1.5, ME0100, RAST, A5004, DV, SJN, SDN, 35182, 35524, RCY, LC, VR, SHJ, SHL, DF19, ACH, IL-Z, SATA, XSR, SUR, SUH, ZE, ZND, ZPD, SFH, PUD, AMP2.0, 35507, DF3, PND, RE, RA, RF, SYP/SYR, HIF3, MC100/ME020/ME010, F2541, A5005, A5006, A5007, A2509, A25010, A25011, A25012, B13001, B76201, VHB, VHC, VHD

1969738, 1969740, 1971845, 1971846, 1971895, 1971896, 1971946 thru 1971949, 1971954 thru 1971957, 2232008 thru 2232011, 2232000 thru 2232003, 2232016 thru 2232019, 1971962 thru 1971965, 2232024 thru 2232027, 2232289 thru 2232292, 2232043 thru 2232074, 2232298 thru 2232301, 2232511, 2232532, 2232557, 2232559, 2232560, 2232562, 2232563, 2232565, 2232566, 2232568, 2232569, 2232571, 2232572, 2232574, 2232575, 2232577, 2232578, 2232580, 2232581, 2232583, 2232584, 2232586, 2232587, 2232589, 2232590, 2232592, 2232593, 2232595, 2232596, 2232598, 2232599, 2232601, 2232602, 2232604, 2232605, 2232607, 2232608, 2232611 thru 2232682, 2292457, 2292458,

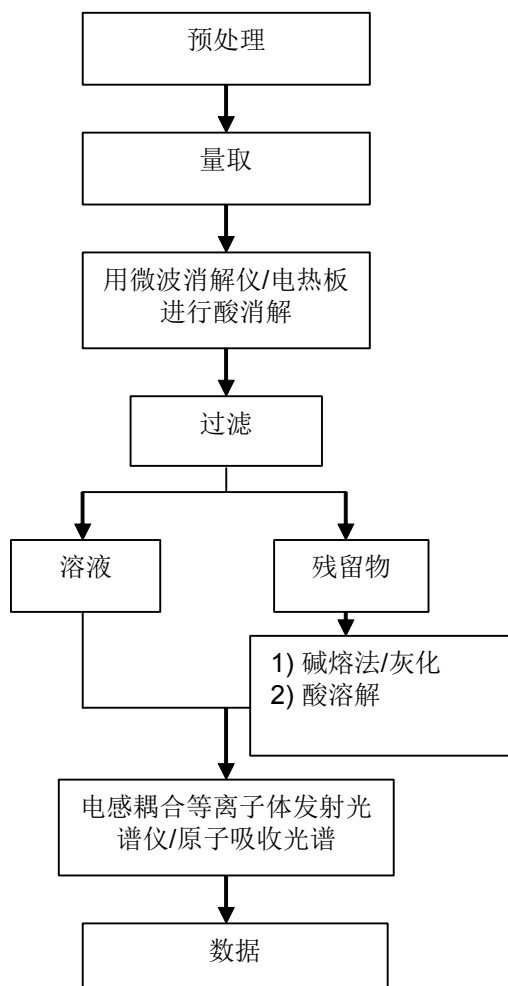
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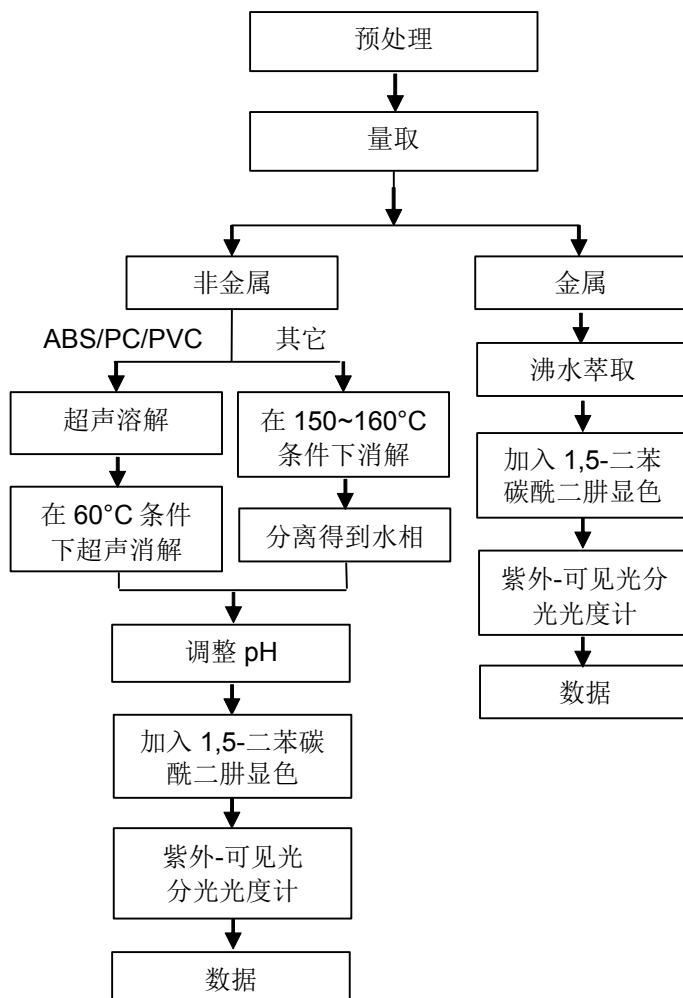
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元素(IEC62321) 测试流程图

1)样品按照下述流程被完全消解



六价铬测试流程图



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No. SHAEC2108746204

日期: 2021年05月12日 第6页,共6页

样品照片:



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*** 报告完 ***



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编号：LHES006

MSDS

1. 物品成分与厂商资料

厂商名称：浙江联和电子有限公司	物品编号：QSN6.5-0.1
	物品名称：磷铜端子
	纯物质：
	危害物质成分（%）无

2. 成份辨识资料

成份名称	化学文摘社登记号码(CAS No.)	浓度范围（成分百分比 Percentage %）
铜(Cu)	7440-50-8	余量
磷(P)	7723-14-0	0.0026-0.005%
锌(Zn)	7440-66-6	0.03-0.04%
镍(Ni)	7440-02-0	0.054-0.063%
锑(Sb)	7440-36-0	0.00015%
铅(Pb)	7439-92-1	<0.005%
铁(Fe)	7439-89-6	0.005-0.0059%
纯镍(Ni)	7440-02-0	0.054-0.063%
纯锡(Sn)	7440-31-5	6.2 %

2. 危害辨认资料

严重危害效应	健康危害效应：本产品为固体时不具健康危害及危害
	环境影响：本产品为固体时对环境不具影响
	物理性及化学性危害：固体/无味/多色
	特殊危害：固体时（防火或高温）无特殊危害

主要症状：无

3. 急救措施

急救方法	吸入：无吸入
	皮肤接触：接触无危害
	食入：无食入

主要症状及危害效应：无

4. 灭火措施

通用灭火器：二氧化碳，泡沫，干粉化学灭火器，水雾等
灭火时可能遭遇之特殊危害：会引起火灾
消防人员之特殊防护装备：使用从氧式吸防护具

5. 泄漏处理方法

个人应注意事项：注意工作台面清洁，作业时及时清洗手
环境注意事项：将泄漏之物料以容器盛装以便回收或废弃
清理方式：工作台面每天作业前/后须擦拭干净，建议可以戴手套或手指套作业

6. 安全处置与储存方法

处置：废弃物可送到政府许可的废弃物处理中心进行处理

储存：空调仓，23±5℃，湿度 65%以下，仓库里面安装灭火器	
7. 暴露预防措施	
个人防护设备	呼吸防护：口罩，一般无此要求，可以建议采用
	手部防护设备：手套或手指套，一般无此要求，可以建议采用
	眼睛防护：安全目镜或眼镜
	皮肤及身体防护：穿工作服，经常勤洗
卫生措施：建议使用安全目镜，进食前应洗手及脸部，平时多运动，保持健康体力	
8. 物料及化学性质	
物质状态：固体	形状：连接器
颜色：多色	气味：无味
PH 值：未测定	沸点：未测定
分解温度：未测定	爆炸介限：无
自然温度：固体无	溶解度：固体无
9. 安全性及反应性	
安全性：正常状态下安全	
特殊状况下可能之危害反应：无	
应避免之状况：避免接触火源和太阳光直射	
应避免之物质：火和酸碱性物质	
危害分解物：无	
10. 毒性资料	
急毒性	吸入：无
	皮肤接触：无
	眼睛：无
局部效应：无	特殊效应：无
11. 废弃物处理方法：废弃物可送到政府许可的废弃物处理中心进行处理	
12. 运送资料	
联合国编号：无	运输规定：并无危险分类
运送方法及注意事项：勿重压，轻拿轻放	
13. 适用法规：1.劳工安全卫生设施规划；2.危害物及有害物通讯规划；3.索尼环境通用规定；4 劳工用业环境空气中有害物容许溶度标准；5 道路交通安全规划	
14. 其他资料：	
15.法规资料	
适用法规	1.劳工安全卫生设施规则 2.RoHS 法规及有害物通识规则
16.其它资料	
参考文献	有害化学物质中文资料库，环保局
制表单位	浙江联和电子有限公司
制造商及供应商地址	浙江省温州乐清市乐清湾港区创新路8号
电话	0577-62383699
制表者	季育文
制表日期	2021-3-23

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