LHE® 浙江联和电子有限公司
ZHEJIANG LIANHE ELECTRONICS CO., LTD.

承　认　书
SPECIFCATION FOR APPROVAL

客户名称 CUSTOMER: 1.25插板压接式条形连接器

品名 DESCRIPTION: B1251

料号 CUSERTOMER PART NO: _____

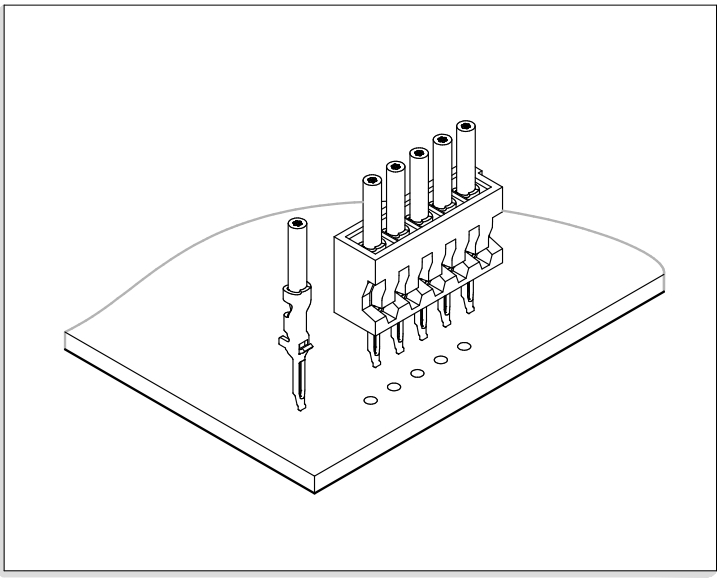
客户确认 APPROVED SIGNATURES

核准 APPROVAL: _____ 日期 DATE: _____

工程 ENGINEERING: _____ 日期 DATE: _____

品管 QC: _____ 日期 DATE: _____

承认结果: ☐ 承认 ☐ 不承认 ☐ 重新送样



规格 Specifications

1. 极数 Poles: 2 to 15P
2. 额定电流 Current rating: 0.8A,1.0A AC,DC
3. 额定电压 Voltage rating: 125V AC,DC
4. 温度范围 Temperature range: -25℃ to +105℃
   (含通电温度上升值)
   (Including temperature rise in applying electrical current)
5. 接触电阻 Contact resistance: 初期 Initial value / ≤5mΩ
   环境测试后 After environmental testing / ≤10mΩ
6. 绝缘电阻 Insulation resistance: ≥100MΩ
7. 耐电压 Withstanding voltage: 250V AC/minute
8. 适用线规 Applicable wire: AWG #32 to #28
9. 适用基板厚度 Applicable PC board thickness: 0.6~1.2mm

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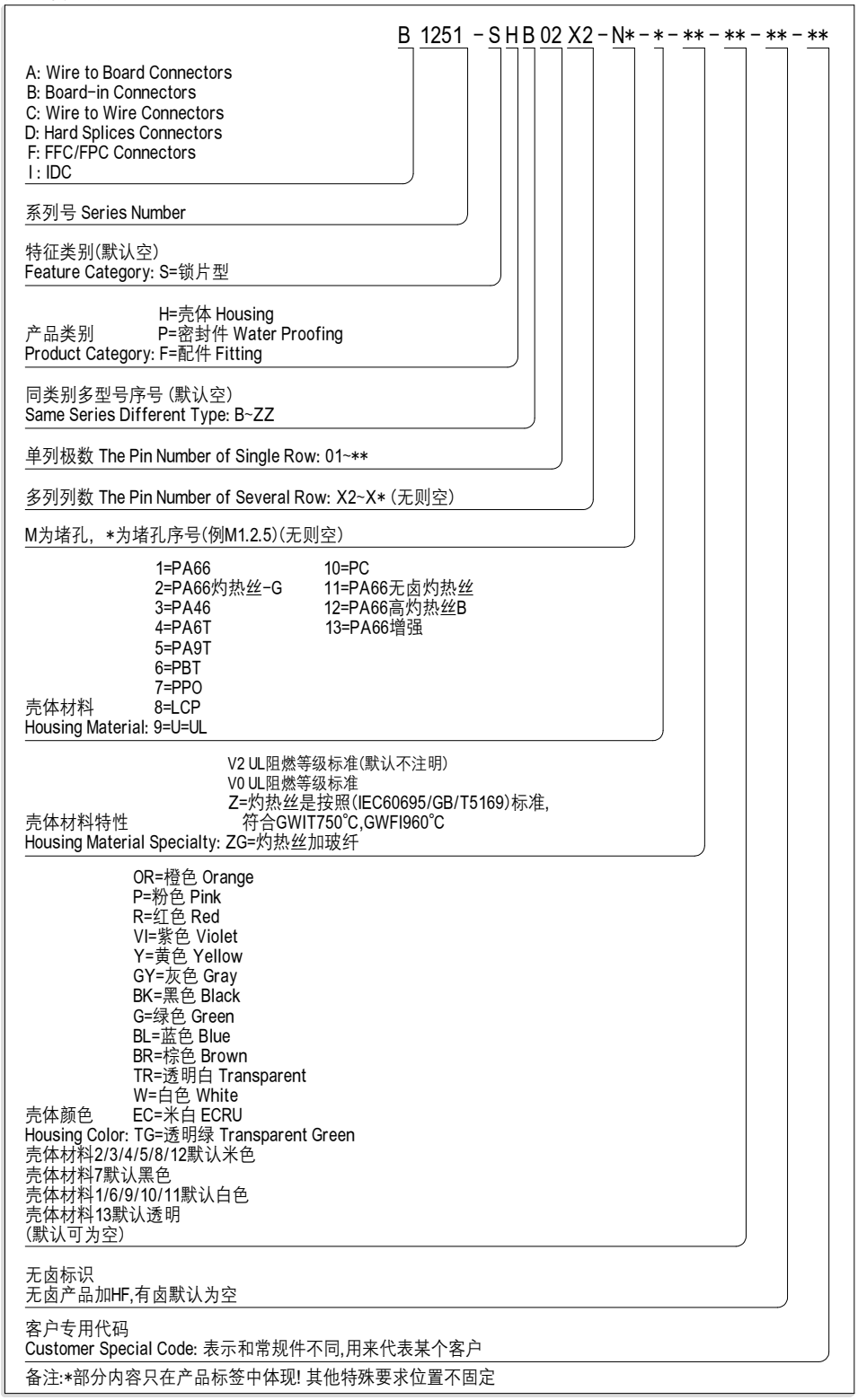
制订 Edit: 吴晓金 日期 DATE: 2023-04-10

审核 Check: 陈浙海 日期 DATE: 2023-04-10

批准 Approval: 季育文 日期 DATE: 2023-04-10

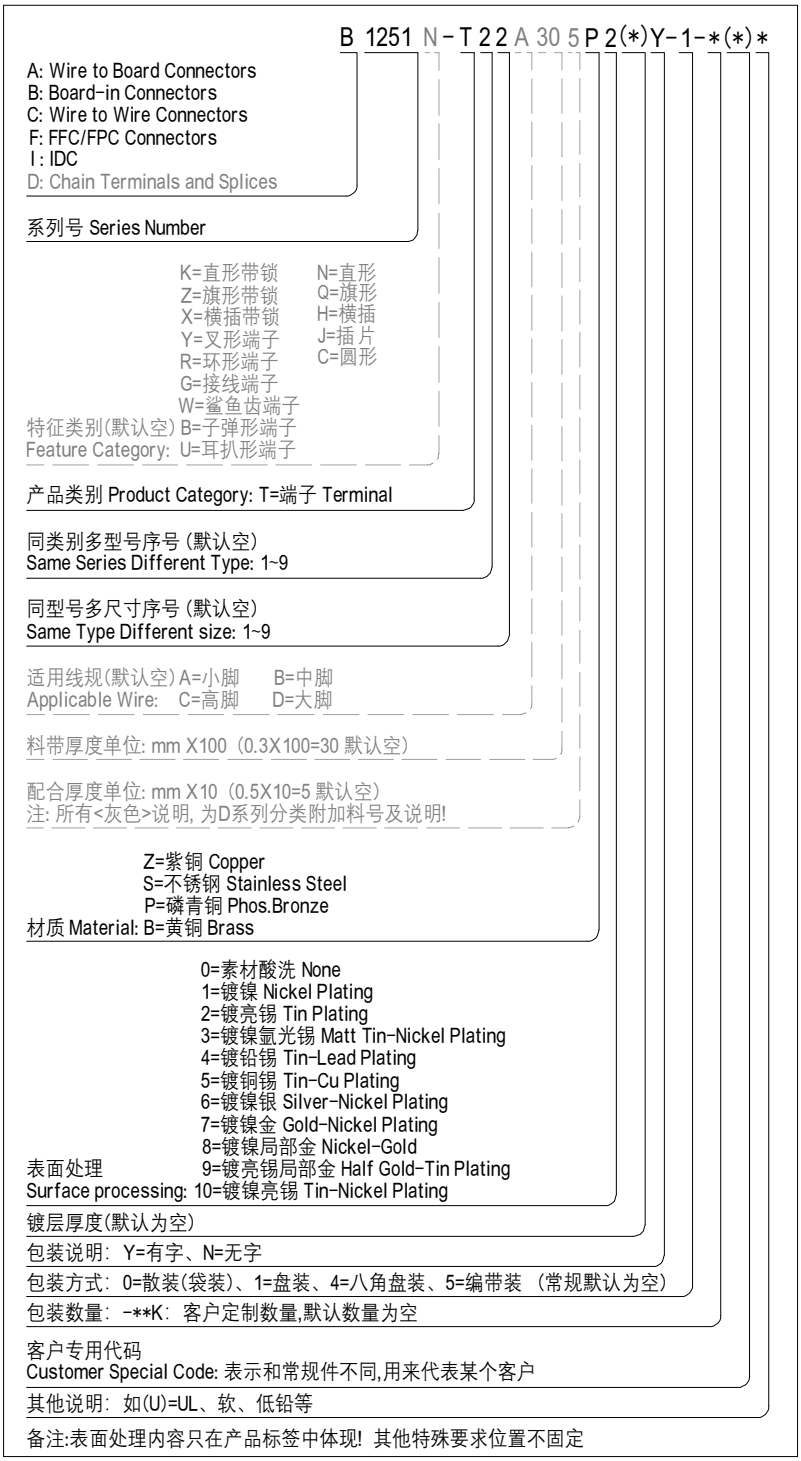
1. 25插板料号说明 Description of item number

壳体料号说明 HOUSING

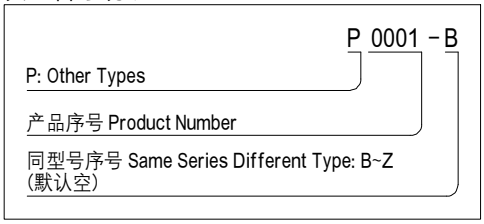


1. 25插板料号说明 Description of item number

端子料号说明 TERMINAL

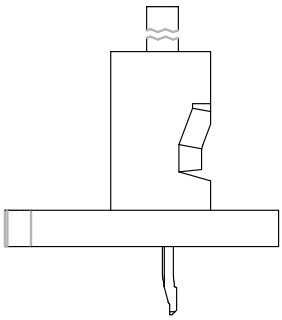


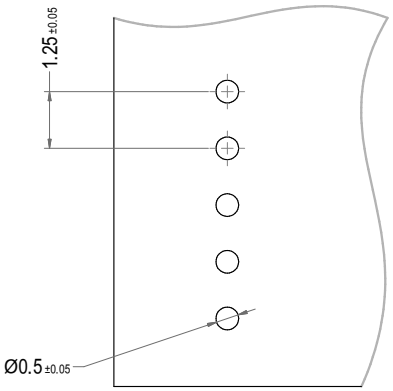
其它料号说明 OTHER



安装尺寸 Mounting Measurement

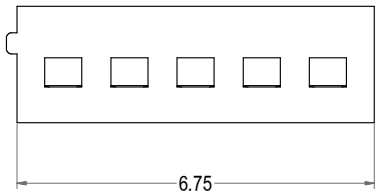
立式 Straight Angle(V-Type)

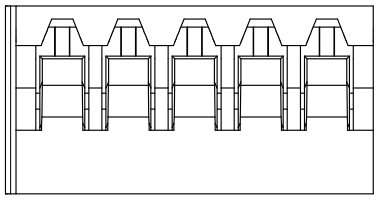


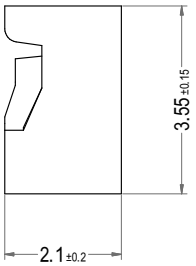


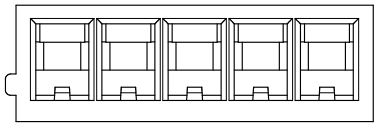
LHE® 浙江联和电子有限公司			
品名	1.25插板立式安装图示	比例	6 : 1
料号	B1251立式安装图示	未注公差(mm)	
图号	LHE\GC-4	>0~3	±0.12
材料	/	>3~18	±0.15
制图	吴娥金 2023-09-12	>18~50	±0.3
审核	陈渐海 2023-09-12	>50~120	±0.5
批准	季育文 2023-09-12	X°	±3°
视角		X.X°	±0.5°

名　　称	材　　料	图　　号	附　　注
端子 Terminal	Nylon 66 UL94(V-0/V-2)	LHE\GC-5	





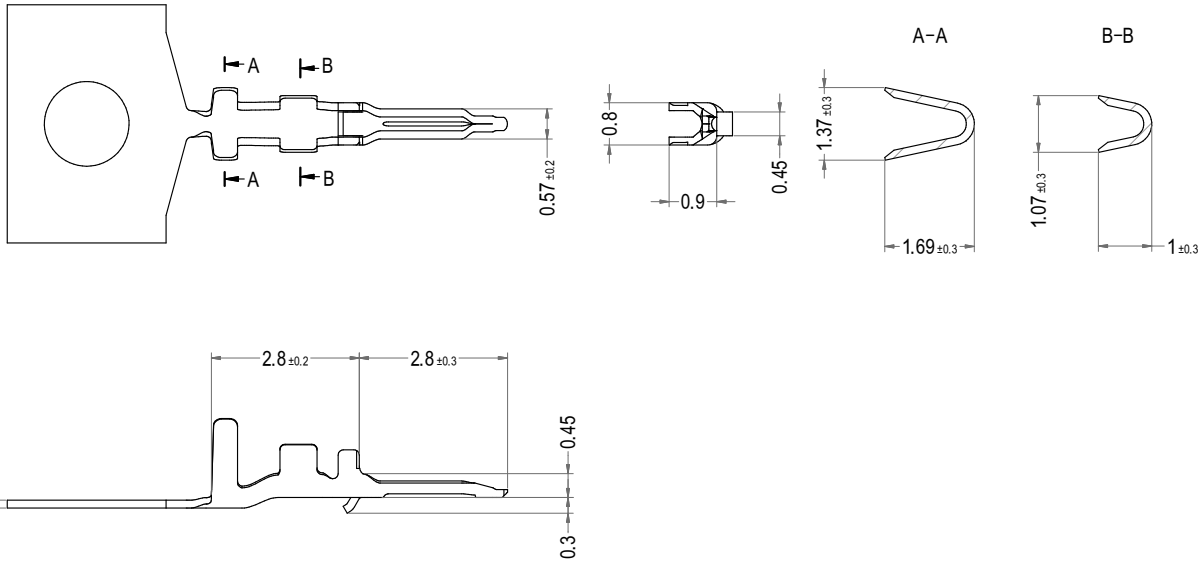


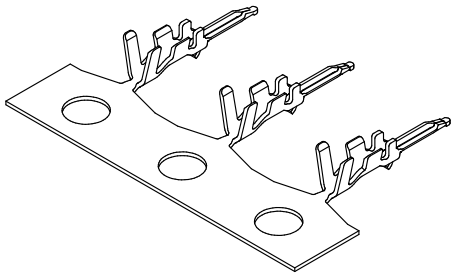


Poles	Part No.	Description	A	B
2	B1251-H02	1.25插板-2Y	1.25	3.00
3	B1251-H03	1.25插板-3Y	2.50	4.25
4	B1251-H04	1.25插板-4Y	3.75	5.50
5	B1251-H05	1.25插板-5Y	5.00	6.75
6	B1251-H06	1.25插板-6Y	6.25	8.00
7	B1251-H07	1.25插板-7Y	7.50	9.25
8	B1251-H08	1.25插板-8Y	8.75	10.50
9	B1251-H09	1.25插板-9Y	10.00	11.75
10	B1251-H10	1.25插板-10Y	11.25	13.00
11	B1251-H11	1.25插板-11Y	12.50	14.25
12	B1251-H12	1.25插板-12Y	13.75	15.50
13	B1251-H13	1.25插板-13Y	15.00	16.75
14	B1251-H14	1.25插板-14Y	16.25	18.00
15	B1251-H15	1.25插板-15Y	17.50	19.25

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品名	1.25插板-NY(205)	比例	7 : 1
料号	B1251-H(205)	未注公差(mm)	
图号	LHE\GC-5	>0~3	±0.12
材料	Nylon 66	>3~18	±0.15
制图	吴娥金 2023-09-12	>18~50	±0.3
审核	陈淅海 2023-09-12	>50~120	±0.5
批准	季育文 2023-09-12	X°	±3°
视角		X.X°	±0.5°

名　称	材　料	图　号	附　注
端子 Terminal	Phosphor Bronze	LHE\GC-6	

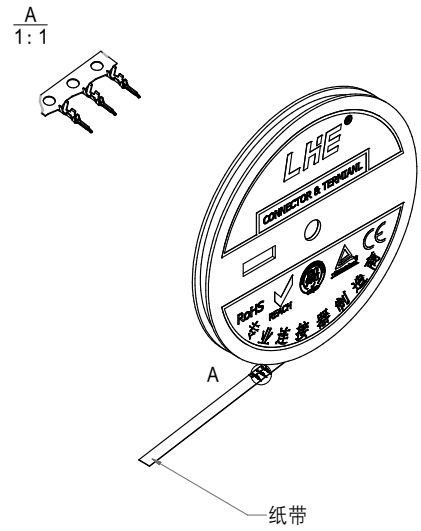


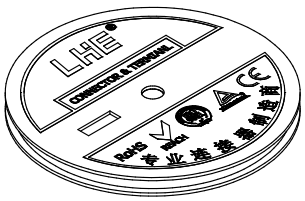


3D图示

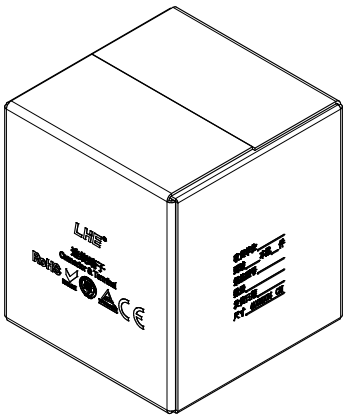
Prat No.	Descripiption	Molex	Finish	Qty/reel
B1251-TP	1.25插板-T11	50061-8000	Tin	12000pcs

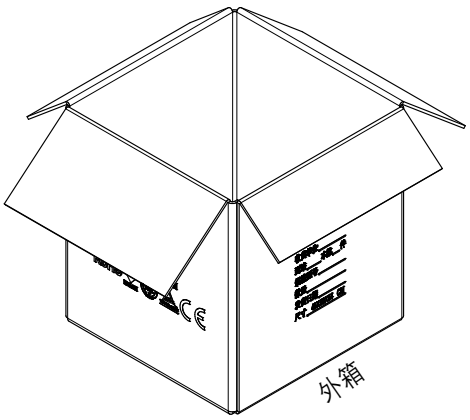
LHE® 浙江联和电子有限公司			
品名	1.25插板-T	比例	7 : 1
料号	B1251-T	未注公差(mm)	
图号	LHE\GC-6	>0~3	±0.12
材料	Phosphor Bronze	>3~18	±0.15
制图	吴娥金 2023-04-10	>18~50	±0.3
审核	陈淅海 2023-04-10	>50~120	±0.5
批准	季育文 2023-04-10	X°	±3°
视角		X.X°	±0.5°





端子料盘





外箱

注释:
1. 产品尺寸请参照ZH-NT图纸.
2. 此示意图为产品出料方式进行说明.
3. 胶带、PE袋未在图纸中体现,请以实物为准.

Part No.	Description	Qty/reel	Reel/caton
B1251-TP	1.25插板-T11	12000pcs	/

LHE® 浙江联和电子有限公司			
品名	1.25插板-T包装	比例	1:10
料号	B1251-T包装	未注公差(mm)	
图号	LHE\GC-7	>0~3	±0.12
材料	/	>3~18	±0.15
制图	吴娥金 2023-09-12	>18~50	±0.3
审核	陈淅海 2023-09-12	>50~120	±0.5
批准	李育文 2023-09-12	X°	±3°
视角		X.X°	±0.5°

项目 Item	测试条件 Test Condition	规格要求 Requirement	
1. 压着部位抗拉强度 Crimping Pull Out Force	在试验装置夹头中固定测试样品, 在连接的轴线方向施加拉力; 速度不大于25mm/min。 Fix the crimped terminal, apply axial pull out force on the wire at the speed rate of not more 25mm/min.	AWG.28#	≥9.8N
		AWG.30#	≥4.9N
		AWG.32#	≥3.0N
2. 壳体/端子固定力 Terminal/Housing Retention Force	固定连接器或测力计, 在连接器 轴线方向施加规定的拉力; 速度不大于25mm/min。 Apply axial pull out force at the speed rate of not more 25mm/min on the pin assembled in the housing.	≥4.9N	
3. 针的固定力 Pin Retention Force	固定连接器或测力计, 在连接器 轴线方向对针施加规定的推力; 速度不大于25mm/min。 Apply axial push out force at the speed rate of not more 25mm/minute on the terminal assembled in the base.	/	
4. 可焊性 Solderability	把测试样品需要焊接的部位浸入焊锡炉中 (锡炉温度245℃±5℃)2±0.5秒钟。 Soldering time: 2±0.5 sec Solder Temperature:245℃±5℃	上锡率≥90% 90% of immersed area must show no voids,pin holes	
5. 耐焊接热 Resistance to Soldering Heat	把测试样品需要焊接的部位浸入焊锡炉中(锡炉温度260℃); 2±0.5秒钟后, 在正常的条件下恢复1小时。 Soldering time: 2±0.5 sec Solder Temperature:260℃	外观 Appearance	无损伤 No Damage
6. 耐高温 Heat Resistance	连接器配合后, 于+105℃±2℃的空气中放置96小时, 然后再回到室温中放置1~2小时测定 Mated connectors are exposed to a temperature of +105℃±2℃ for 96 hours.	外观 Appearance	无损伤 No Damage
7. 耐低温 Clod Resistance	连接器配合后, 于-25℃±2℃的空气中放置96小时, 然后再回到室温中放置1~2小时测定 Mated connectors are exposed to a temperature of -25℃±2℃ for 96 hours.	接触电阻 Contact Resistance LLCR	≤10mΩ
8. 温度上升 Temperature Rise	插合连接器, 通以最大允许电流。 Carring rated current load.	温度最大上升 Temperature Rise	≤30℃
9. 恒定湿热 Humidity	温度 Temperature: 40±2℃ 相对湿度 Relative Humidity: 90%~95% 搁置时间 Duration: 96h, 取出恢复2小时后检查	外观 Appearance	无损伤 No Damage
10. 温度循环 Temperature cycle	把测试样品放入高低温试验箱中,按下列步骤调试温度: a)在-25℃±2℃的恒温条件下放置0.5小时; b)在+105℃±2℃的恒温条件下放置0.5小时; 从a)到b)为一个循环周期,共进行5个循环。恢复1h后检查。 状态转换时间不多于1小时。 Mated connectors are exposed to 5 cycles of: a)-25℃±2℃ 0.5hour b)+105℃±2℃ 0.5hour	耐电压 Dielectric Strength	250V
		绝缘电阻 Insulation Resistance	≥100MΩ
11. 机械寿命 Repeated insertion/withdrawal	以每分钟插拔10次的速率, 插拔50次。 When mated up to 50 cycles repeatedly by the rate of 10 cycles per minute.	接触电阻 Contact Resistance LLCR	≤10mΩ
12. 机械振动 Vibration	插合连接器, 串联在一直流电源上, 电流100mA; 并模拟正常工作状态, 振频为10~55Hz、振幅1.5mm; 每一轴线扫频循环次数10次、2小时。 Frequency: 10~55Hz Amplitude: ±1.5mm Duration: 2 hours in each X,Y,Z axes	外观 Appearance	无损伤 No Damage
		接触电阻 Contact Resistance LLCR	≤10mΩ
		中断 Intermittence	≤1μ sec

项目 Item	测试条件 Test Condition	规格要求 Requirement	
13.机械冲击 Shock	连接器相配,沿X,Y.Z三轴正反方向各冲击3次(总共18次), 在测试过程中通以100mA电流。 冲击强度:490m/s² 持续时间:11ms Mated connectors and subject to the following shock conditions,3times of shock shall be applied for each 6 directions along 3 mutually perpendicular axes,passing DC 100mA current during the test(Total of 18 shocks)Test Pulse: Half Sine Peak Value:490m/s² Duration:11ms	外观 Appearance	无损伤 No Damage
		接触电阻 Contact Resistance LLCR	≤10mΩ
		中断 Intermittence	≤1μ sec
14.外观 Appearance	目测 Visual by eye 视力 Light: >1.0 照明 Lamp: 200~300Lx 目测距离 Space: 0.3~0.5m	1.塑料件表面应无明显疤痕、凹陷、开裂及影响使用的变形。 Plastic part:smooth and flat surface without discolor,broken,crack distortion defects is acceptable. 2.金属件表面无锈蚀、氧化、无明显的机械损伤等缺陷。 Metal part:btight and even surface without rust,oxide, fog and obvious physical damage defects is acceptable. 3.导线表面清洁、无破损等缺陷, 印字及标志清晰。 Wire:clearing surface without discolor,broken defects,indistinct words and mark is acceptable.	
15.盐雾 Salt Spray	把先冲后镀*的测试样品从试验箱顶悬挂下来, 采用浓度为5%±1(质量百分比)的氯化钠溶液, 连续雾化16小时, 试验后用流动的蒸馏水轻轻洗去表面沉积物。在常温常驻湿条件下恢复1~2小时。 16 hour exposure to a saltspray from the 5%±1 solution.	外观无损伤(五金件应无露出底金属的严重锈蚀;使用预镀的型材, 其落料面允许有不影响其性能的轻微腐蚀。) Appearance:No Damage(No erosion with material exposed.And with plating material, slight erosion on the cutting surface acceptable)	
16. 接触电阻 Contact Resistance	插合连接器,用小功率电路进行测试。 Mate connectors,measure by dry circuit.	≤5mΩ (Initial value)	
17. 绝缘电阻 Insulation Resistance	在相邻接触件之间或地线之间, 用500V DC电压进行测试。 Apply 500V DC between adjacent terminal or ground.	≥100MΩ	
18. 耐电压 Dielectric Strength	相邻接触件之间或地线之间施加50Hz 250V AC(有效值), 漏电流1mA的电压作用, 时间1min。 Mate connectors, apply 250V AC for 1 minute between adjacent terminal or ground.	无击穿和飞弧现象 No Breakdown	
19. 插入力与拔出力 Insertion and Withdrawal Force	单PIN相配的接触器 以1mm/s~5mm/s的 速度沿接插器轴线 方向插入和拔出。 Insertion and withdraw single contact at the speed rate of 1mm/s~5mm/s.	极数 Poles / 插入力(最大值N) Insertion(N Max) 1st / 拔出力(最小值N) Withdrawal(N Min) 1st 1 / 4.9 / 4.9	
	相配的连接器以1mm/s~5mm/s的速度沿接插器轴线方向插入和拔出。 Insertion and withdraw connectors at the speed rate of 1mm/s~5mm/s.		

*先冲后镀为定制端子。常规端子为先镀后冲, 无法通过盐雾试验。

制订 Edit: 吴晓金 日期 DATE: 2023-04-10

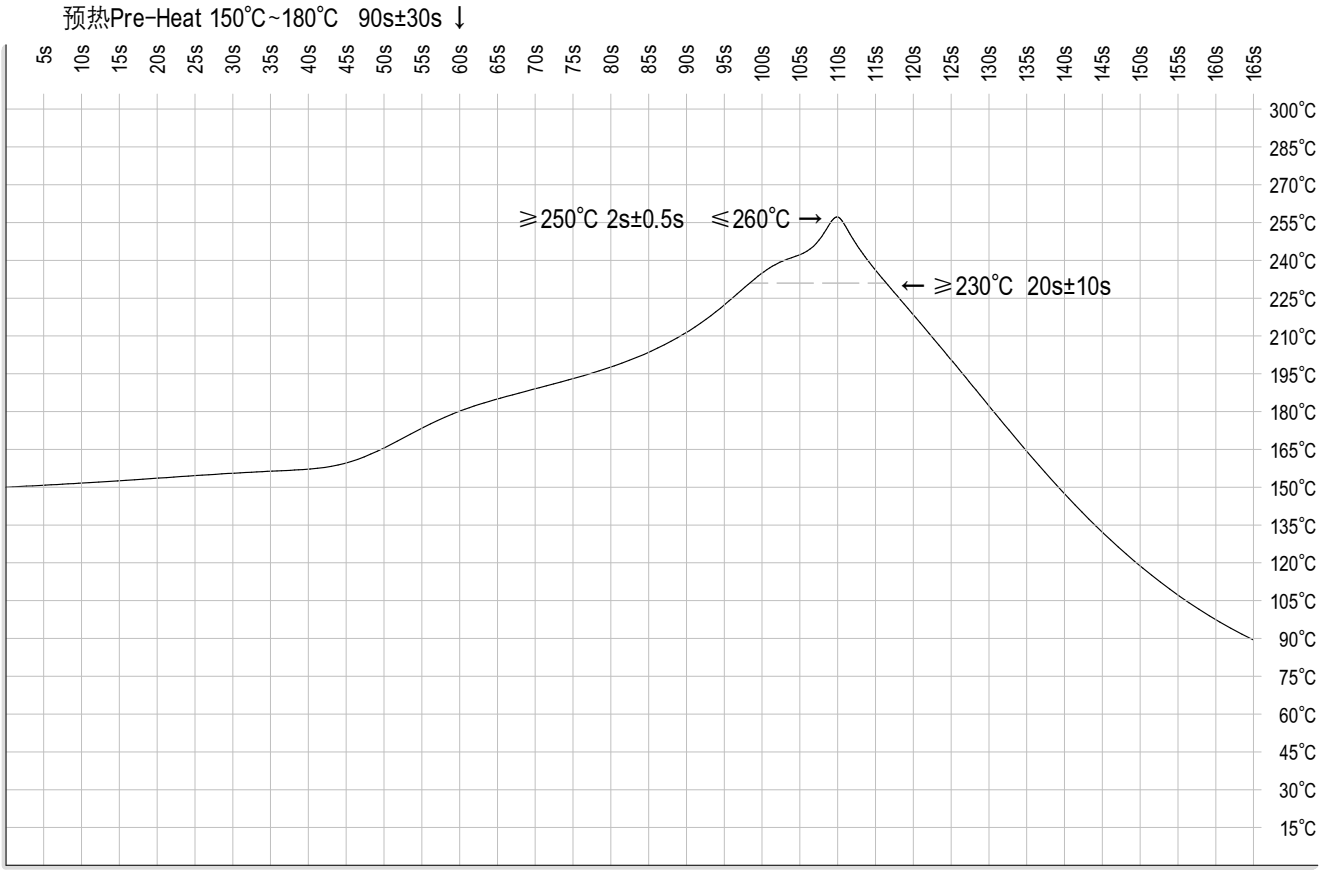
审核 Check: 季育文 日期 DATE: 2023-04-10

批准 Approval: 陈浙海 日期 DATE: 2023-04-10

无铅回流焊要求 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℃/s
浸泡时间 Soak time	tsoak 2-3	minutes
150℃以上时间 Time above 150℃	T1	60s
180℃以上时间 Time above 180℃	T2	50s
250℃以上时间 Time above 250℃	T3	2±0.5s
焊接温度 Peak temperature in reflow	Tpeak	255℃(-0/+5℃)
温度梯度的冷却 Temperature gradient in cooling		Max -5℃/s

温度条件图 TEMPERATURE CONDITION GRAPH



注: 对耐热性的最低要求, 是在回流焊中使用空气对流的传热方法评估焊接部件。 该曲线图表明需要达到规定的空气温度, 而实际过程很大程度上取决于回流焊装置。

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.

浙江联和电子有限公司
ZHEJIANG LIANHE ELECTRONICS CO.,LTD.

可 靠 性 试 验 报 告

RELIABILITY TEST REPORT

日期：2022-03-27

针焰实验(Needle flame experiment)

测试目的(Test Purposes)	确定AB11069W-S16-10产品在针焰条件下是否符合标准要求 Determine if the AB11069W-S16-10 Does the product meet the standard requirements under the condition of needle flame
测试条件(Test Conditions)	温度35±2℃ Temperature 35 ± 2 ℃;
测试方法(Test Method)	对产品施加试验火焰持续时间为12s。火焰高度12mm±1mm The test flame was applied to the product for 12 s. Flame height 12 mm ± 1 mm
参照标准(With Reference to	GB/T5169.5-2008
判定标准(Test Standard)	a.试验样品无火焰和灼热，并且规定的铺底层或包装绢纸没有起燃 b.在移开针焰后，试验样品和周围的零部件的火焰或灼热在30s之内熄灭，即tb＜30s,而且周围的零部件没有完全烧毁，以及规定的铺底层或包装绢纸没有起燃。 a. The test sample has no flame and heat, and the specified bedding or wrapping paper does not ignite b. After removing the needle flame, the flame or burning heat of the test sample and the surrounding parts will be extinguished within 30s, i.e. TB < 30s, and the surrounding parts are not completely burnt out, and the specified underlay or wrapping silk paper does not ignite
测试设备(Test Equipment)	针焰试验机 Needle flame testing machine
测试程序（Test Program）	外观检验→固定样品→试验启动 →观察→记录起火时间

测试结果(The test results)

测试图片Test Picture





项次 Items	1	2	3	4	5	备注
第一组 group1	无起燃	无起燃	无起燃	无起燃	无起燃	/
第二组 group2	无起燃	无起燃	无起燃	无起燃	无起燃	/
结果results	OK	OK	OK	OK	OK	/

结果判定(The results determine)

样品数量 The Number of Samples 8PCS	合格数 The Number of competency	10	结 果Results OK
	不合格数Unqualified	0	
	外观Appearances	OK	

核 准 (Approved) :陈 浙 海　　测 试 人 (Testing Person) :玉夫

浙江联和电子有限公司
ZHEJIANG LIANHE ELECTRONICS CO.,LTD.

可 靠 性 试 验 报 告

RELIABILITY TEST REPORT 日期：2022-03-27

灼热丝实验(Glow wire experiment)

测试目的(Test Purposes)	确定AB11069W-S16-10灼热丝材料产品在灼热丝条件下是否符合标准要求 Determine if the AB11069W-S16-10 Does the product meet the standard requirements under the condition of glow wire
测试条件(Test Conditions)	灼热丝起燃温度(GWIT)记录值为起始温度加25K(对于900℃和930℃则是30K,960℃记为GWIT:>960/厚度) Gwire ignition temperature(GWIT)recorded value is the starting temperature plus 25K(for 900℃ and 930℃ is 30K,960℃ is GWIT:>960 / thickness)
测试方法(Test Method)	施加试验火焰持续时间为30s。试验温度750℃ The test flame duration was 30 s. Test temperature: 750 ℃
参照标准(With Reference to	根据GB/T 5169.12-2006及GB/T 5169.13-2013执行.
判定标准(Test Standard)	试验样条无火焰，并且规定的铺底层或包装绢纸没有起燃。 The test sample has no flame and heat, and the specified bedding or wrapping paper does not ignite
测试设备Test Equipment）	灼热丝试验仪 Glow-wire tester
测试程序（Test Program）	外观检验→固定样条→试验启动 →观察→记录起火时间

测试图片Test Picture






测试结果(The test results)

材料规格	试片尺寸(长X宽X厚) 单位:mm	起始温度(℃)	样品	起燃时间(Ti) 单位:秒	熄灭时间(Te)	现象记录	GWIT 判定:PASS或FAIL	GWFI
A66V0 002	60X60X2.5	750	第1个	不起燃	/	不起燃,无滴落	PASS (GWIT:775/2.5)	PASS (GWFI:750/2.5)
			第2个	不起燃	/	不起燃,无滴落		
			第3个	不起燃	/	不起燃,无滴落		
A66V0 002	60X60X2.5	775	第1个	不起燃	/	不起燃,无滴落	FALL	PASS (GWFI:775/2.5)
			第2个	不起燃	/	不起燃,无滴落		
			第3个	8	26	接触后很快就起燃,熔融但无滴落,起燃后26S熄灭		
A66V0 002	60X60X2.5	800	第1个	6	32	接触后很快就起燃,熔融但无滴落,起燃后32S熄灭	FALL	PASS (GWFI:800/2.5)
			第2个	5	31	接触后很快就起燃,熔融但无滴落,起燃后28S熄灭		
			第3个	6	33	接触后很快就起燃,熔融但无滴落,起燃后33S熄灭		

测试须知(The test requirements)

1.灼热丝起燃温度(GWIT)记录值为起始温度加25K(对于900℃和930℃则是30K，960℃记为GWIT:>960/厚度)：
2.产品在移开灼热丝之后持续燃烧的时间≤30s，即Te≤Ta（施加时间）+30S，并且包装绢纸没有起燃，则灼热丝可燃性指数（GWFI）即为PASS，记录为GWFI:温度/厚度：
3.本实验灼热丝Ta(施加时间)为30S，则Te≤60S
4.如果3个其中有1个不合格则最终结果为不合格：.

核 准 (Approved)：陈 浙 海　　测 试 人 (Testing Person)：玉夫

Component - Plastics

File Number: E331274

Celanese (Suzhou) Engineering Plastics Co Ltd
N. 155 Song Bei Road, Suzhou Industrial Park, Suzhou Jiangsu 215024 CN

FRIANYL: A3 RV0 (a)(b)(f2)

Polyamide 66 (PA66), pellets, unfilled

(a) - Virgin and regrind up to 50% by weight inclusive, have the same basic material characteristics.
(b) - Virgin and regrind up to 100% by weight inclusive, have the same basic characteristics with respect to flammability.
(f2) - Subjected to one or more of the following tests: Ultraviolet Light, Water Exposure or Immersion in accordance with UL 746C, where the acceptability for outdoor use is to be determined by UL.

Flammability	Value	Test Method
Flame Rating		UL 94 IEC 60695-11-10, -20
0.25 mm, ALL	V-0	
0.38 mm, ALL	V-0	
0.75 mm, ALL	V-0	
1.5 mm, ALL	V-0	
3.0 mm, ALL	V-0	
Glow Wire Flammability Index		IEC 60695-2-12
0.75 mm	960 °C	
1.5 mm	960 °C	
3.0 mm	960 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
0.75 mm	775 °C	
1.5 mm	775 °C	
3.0 mm	775 °C	
Electrical	**Value**	**Test Method**
Hot-wire Ignition (HWI)		UL 746
0.25 mm	PLC 4	
0.38 mm	PLC 4	
0.75 mm	PLC 4	
1.5 mm	PLC 4	
3.0 mm	PLC 3	
High Amp Arc Ignition (HAI)		UL 746
0.25 mm	PLC 1	
0.38 mm	PLC 1	
0.75 mm	PLC 0	
1.5 mm	PLC 0	
3.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 0	UL 746
Dielectric Strength	25 kV/mm	ASTM D149 IEC 60243-1
High Voltage Arc Tracking Rate (HVTR)	PLC 0	UL 746
Inclined-Plane Tracking (1.0 kV)	60 min	ASTM D2303
Volume Resistivity	1.0E+13 ohms·cm	ASTM D257 IEC 60093
Arc Resistance	PLC 5	ASTM D495

Form Number: E331274-103610472

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Report Date: 6/22/2009
Last Revised: 2018-02-12

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Component - Plastics

File Number: E331274

Thermal	Value	Test Method
RTI Elec		UL 746
0.25 mm	65.0 °C	
0.38 mm	130 °C	
0.75 mm	130 °C	
1.5 mm	130 °C	
3.0 mm	130 °C	
RTI Imp		UL 746
0.25 mm	65.0 °C	
0.38 mm	105 °C	
0.75 mm	105 °C	
1.5 mm	105 °C	
3.0 mm	105 °C	
RTI Str		UL 746
0.25 mm	65.0 °C	
0.38 mm	115 °C	
0.75 mm	120 °C	
1.5 mm	120 °C	
3.0 mm	120 °C	
Physical	**Value**	**Test Method**
Dimensional Stability	0.0 %	ASTM D1042 ISO 2796
Outdoor Suitability	f2	UL 746C

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Form Number: E331274-103610472

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UL Product iQ™

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 LHE, model designation and the Recognized Component Mark, on the device or carton.

Last Updated on 2020-02-20

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产品认证证书

证书编号：CQC17134174484

发证日期：2021 年 01 月 20 日
有效期至：2025 年 08 月 31 日

委托人名称及注册地址	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
制造商名称及注册地址	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
生产企业名称及生产地址	浙江联和电子有限公司 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 00601-2020134003037
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 6040-2019, 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。
证书有效期内本证书的有效性依据发证机构的定期监督获得保持。

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签发：

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C 0453132

ZERTIFIKAT ■ CERTIFICATE ■ CERTIFICADO ■ CERTIFICAT

Verification No.: CLZJ1411264692

VERIFICATION OF LVD COMPLIANCE

Applicant:	Zhejiang Lianhe Electrical Co., Ltd. Houyu village, Shifan town, Yueqing city, Zhejiang province, China.
Manufacturer:	Same as applicant
Product Description:	Connector Terminal
Model No:	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, 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 IIIand IV of the Directive are fulfilled.

Approved by: Hermann Weiher

CE

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

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

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PRODUCT CERTIFICATION

CERTIFICATE NO.: CQC17134174484

Valid from: Jan.20,2021
Valid until: Aug.31,2025

NAME AND REGISTERED ADDRESS OF THE APPLICANT	Zhejiang Lianhe Electronics Co., Ltd. Yueshang Pioneer Park,Yueqingwan Area, Yueqing City, Zhejiang Province
NAME AND REGISTERED ADDRESS OF THE MANUFACTURER	Zhejiang Lianhe Electronics Co., Ltd. Yueshang Pioneer Park,Yueqingwan Area, Yueqing City, Zhejiang Province
NAME AND LOCATION OF THE FACTORY	Zhejiang Lianhe Electronics Co., Ltd. No. 8, Chuangxin Road, Yueqing Bay Port District, Yueqing City, Zhejiang Province
PRODUCT NAME, MODEL AND SPECIFICATION	Connector (PA66) See Annex , Material name: PA66, material grade: A3RV0, All color, Ball pressure:200℃, Glow-Wire Flammability Index(GWFI): 960/0.3, Glow-Wire Ignition Temperature(GWIT):960/0.3, Flammability:V-0@0.3mm, CTI600 , Infrared Analysis,Differential Scanning Calorimetry(DSC), Thermogravimetry (TG) to see report Ref.No: 00601-2020134003037
THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS	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 6040-2019, GB/T 19466.1-2004, GB/T 19466.2-2004, GB/T 19466.3-2004, ISO 11358-1:2014
TYPE OF CERTIFICATION SCHEMES	Product Testing + Follow up Factory Inspection

This is to certify that the above mentioned product(s) complies with the requirements of certification rules of CQC13-036047-2009.

The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

The certificate information is available through the QR code below or CNCA's website: www.cnca.gov.cn

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CHINA QUALITY CERTIFICATION CENTRE 中国质量认证中心

http://www.cqc.com.cn Section 9, No.188, Nansihuan Xilu, Beijing 100070 P.R.China Tel: +86 10 83886666

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THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

CQC *has issued an IQNet recognized certificate that the organization:*

ZheJiang Lianhe Electronics Co.,Ltd.

Registered Address: Yueqing Bay Port Area, Yueqing City, Wenzhou City, Zhejiang Province, P.R.China
Operation Address: No.8 Innovation Road, Yueqing Bay Port Area, Yueqing City, Wenzhou City, Zhejiang Province, P.R.China

has implemented and maintains an

Environmental Management System

for the following scope:

Design and Production of Connector and Related Management Activities

which fulfils the requirements of the following standard:

GB/T 24001-2016 / ISO 14001:2015

Issued on: February 12, 2020

Expires on: February 11, 2023

Registration Number: **CN00120E30414R0S/3302**

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document

Alex Stoichitoiu
President of IQNet

Lu Mei
President of CQC

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检测报告

编号：SHAEC23004052706　　**日期：**2023 年 04 月 20 日　　第 1 页，共 12 页

客户名称：　浙江联和电子有限公司

客户地址：　浙江省乐清市乐清湾港区乐商创业园/浙江省乐清市乐清湾港区电子信息产业园红旗路 8 号

样品名称：　PA66 连接器

型号：　XHD-5A

客户参考信息：　见附件

以上样品及信息由客户提供。

SGS 工作编号：　SP23-009295

样品接收时间：　2023 年 04 月 10 日

检测周期：　2023 年 04 月 10 日 ~ 2023 年 04 月 20 日

检测要求：　根据客户要求检测。

检测方法：　见后续页。

检测结果：　见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863- 铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基已基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)	符合
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六价铬	符合
阻燃剂含量	见检测结果
红磷	见检测结果
欧盟 POPs 法规(EU) 2019/1021 及其修订指令 - 持久有机性污染物(POPs)	见检测结果

通标标准技术服务（上海）有限公司
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Sue Sheng 盛雯舒
批准签署人

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检测报告

编号：SHAEC23004052706　　日期：2023 年 04 月 20 日　　第 2 页，共 12 页

检测结果：

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	SHA23-0040527-0001.C001	白色塑料部分
SN2	A2	SHA23-0040527-0001.C002	银色金属

备注：

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

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863- 铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基已基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)

检测方法： 参考 IEC 62321-4:2013+AMD1:2017， IEC 62321-5:2013， IEC 62321-7-2:2017， IEC 62321-6:2015 和 IEC 62321-8:2017， 采用 ICP-OES，UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A1
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	ND
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯(MonoBB)	-	mg/kg	5	ND
二溴联苯(DiBB)	-	mg/kg	5	ND
三溴联苯(TriBB)	-	mg/kg	5	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND
五溴联苯(PentaBB)	-	mg/kg	5	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND
七溴联苯(HeptaBB)	-	mg/kg	5	ND
八溴联苯(OctaBB)	-	mg/kg	5	ND
九溴联苯(NonaBB)	-	mg/kg	5	ND
十溴联苯(DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND



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检测项目	限值	单位	MDL	A1
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND
十溴二苯醚(DecaBDE)	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注：
(1) 最大允许极限值引用自 RoHS 指令(EU) 2015/863。
(2) IEC 62321 系列等同于 EN 62321 系列。
(3) 2021 年 7 月 22 号开始，DEHP， BBP， DBP 和 DIBP 的限制适用于医疗器械，包括体外医疗器械，监控仪表，包括工业监测和控制仪器。

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六价铬

检测方法： 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。

检测项目	限值	单位	MDL	A2
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	10
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	μg/cm²	0.10	ND

备注：
(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。
(2) IEC 62321系列等同于 EN 62321系列。
(3) ▼ = 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，样品的六价铬检测结果仅能代表测试时样品含六价铬的状态。

阻燃剂含量

检测方法： 参考 US EPA 3550C:2007 和 US EPA 8270D:2014，采用 GC-MS 进行分析。

检测项目	CAS No.	单位	MDL	A1
十溴二苯乙烷 (DBDPE / DEBD)	84852-53-9	mg/kg	5	ND
双(六氯环戊二烯)环辛烷(Dechlorane Plus (DP))	13560-89-9	mg/kg	5	ND

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红磷

检测方法： 参考 SGS 内部方法，采用 ICP-OES 和热裂解 GC-MS 进行分析。

检测项目	CAS No.	单位	MDL	A1
红磷	7723-14-0	mg/kg	500	ND

备注：
(1) 检测结果基于最坏情况考虑，并经热裂解 GC-MS 确认。

欧盟 POPs 法规(EU) 2019/1021 及其修订指令 - 持久有机性污染物(POPs)

检测方法： 参考 SGS 内部方法，采用 GC-MS、GC-ECD 和 HPLC-DAD-MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A1
六氯苯	118-74-1	10	mg/kg	5	ND
六溴环十二烷(HBCDD) 及其非对映异构体(α-HBCDD, β-HBCDD, γ-HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	100	mg/kg	10	ND

备注：
(1) 欧盟 POPs 法规(EU) 2019/1021，附录 I 中的物质禁用在混合物及物品中使用，除非法规有特殊豁免。
(2) 对 POPs 物质的分析检测是基于现有的技术，根据客户要求进行检测。
(3) 豁免：HBCDD 做为无意添加的微量污染物，在物质，混合物，物品或者物品的阻燃剂中不能超出 100mg/kg 。

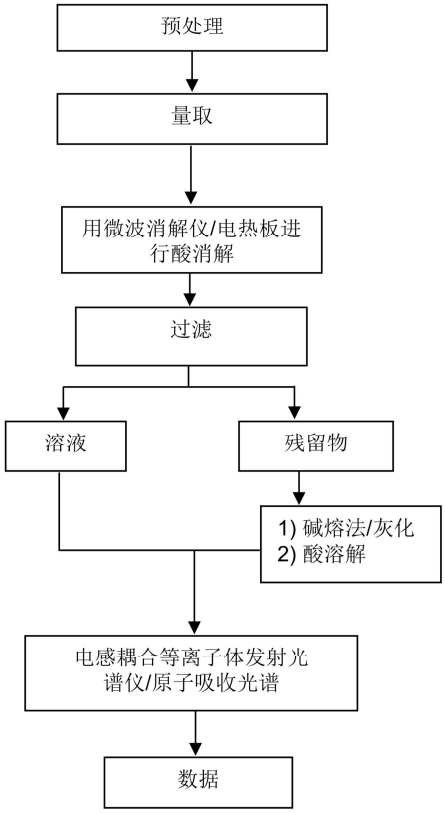
除非另有说明，参照 ILAC-G8:09/2019，使用简单接受（*w*=0）的二元判定规则进行符合性判定。
除非另有说明，此报告结果仅对检测的样品负责。本报告未经本公司书面许可，不可部分复制。
检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的，仅供内部参考。

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元素检测流程图

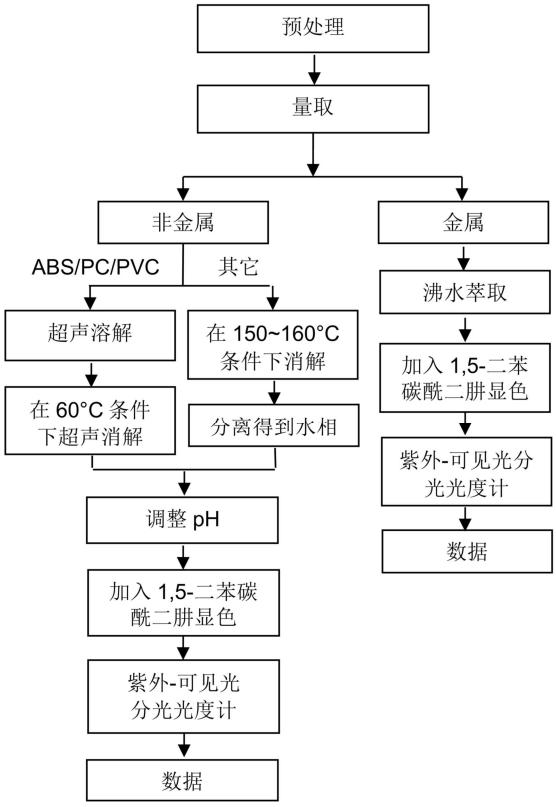
样品按照下述流程被完全消解



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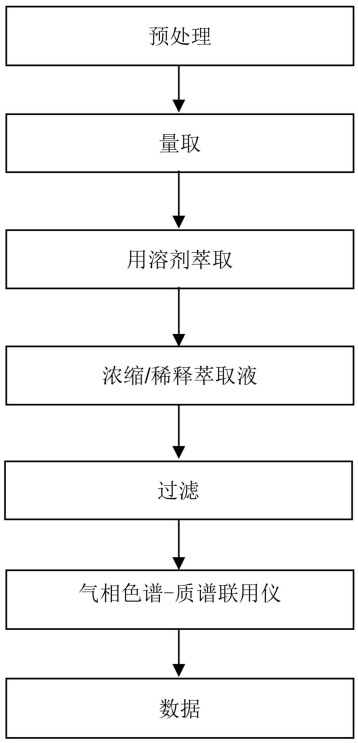
六价铬检测流程图



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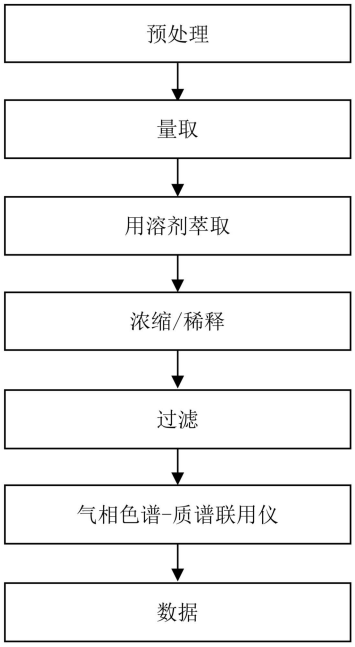
PBBs/PBDEs 检测流程图



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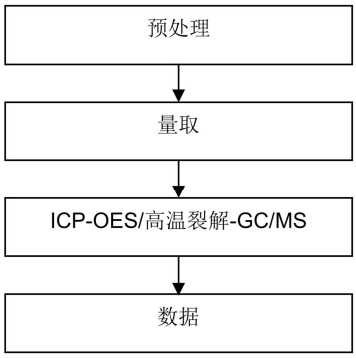
Phthalates 检测流程图



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Red Phosphorus 检测流程图



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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， VHRR， 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， SMF， 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， FPC， 20030， 250， LGC， S11， YH025， 35155， 25415， 5197， 5198， 110， 2.8， 6.3， SCS

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D2301 D2302 D2303 D2304 D2305 D2306 D2307 D2308 D2309
D6001 D6002 D6003 D6004 D6005 D6006 D6007 D6008 D6009
D2201 D2202 D2203 D2204 D2205 D2206 D2207 D2208 D2209

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Testing Center-Chemical Laboratory)

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样品照片：



SHA23-0040527-0001.C001



SHA23-0040527-0001.C002

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检测报告

编号：SHAEC23005417604　　**日期：**2023 年 05 月 09 日　　第 1 页，共 7 页

客户名称：　浙江联和电子有限公司

客户地址：　浙江省乐清市乐清湾港区乐商创业园
浙江省乐清市乐清湾港区电子信息产业园红旗路 8 号

样品名称：　端子 针

客户参考信息：　见附件

以上样品及信息由客户提供。

SGS 工作编号：　SHP23-001324

样品接收时间：　2023 年 05 月 04 日

检测周期：　2023 年 05 月 04 日 ~ 2023 年 05 月 09 日

检测要求：　根据客户要求检测。

检测方法：　见后续页。

检测结果：　见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六价铬	符合

通标标准技术服务（上海）有限公司
授权签名

Jenny Lan 兰柳珍
批准签署人

scan to see the report
B6F28BB6

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检测结果：

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A2	SHA23-0054176-0001.C002	银色金属

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

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六价铬

检测方法： 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。

检测项目	限值	单位	MDL	A2
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	71
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))▼	-	μg/cm²	0.10	ND

备注：
(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。
(2) IEC 62321系列等同于 EN 62321系列。
(3) ▼ = 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，样品的六价铬检测结果仅能代表测试时样品含六价铬的状态。

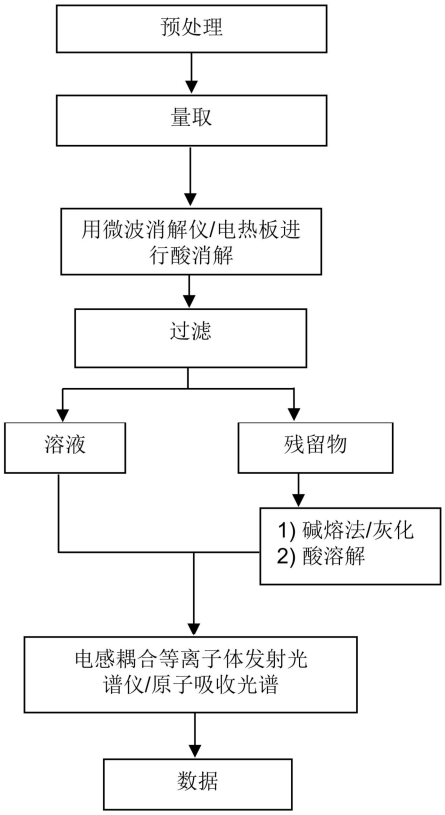
除非另有说明，参照 ILAC-G8:09/2019，使用简单接受（*w*=0）的二元判定规则进行符合性判定。
除非另有说明，此报告结果仅对检测的样品负责。本报告未经本公司书面许可，不可部分复制。
检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的，仅供内部参考。

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附件

元素检测流程图

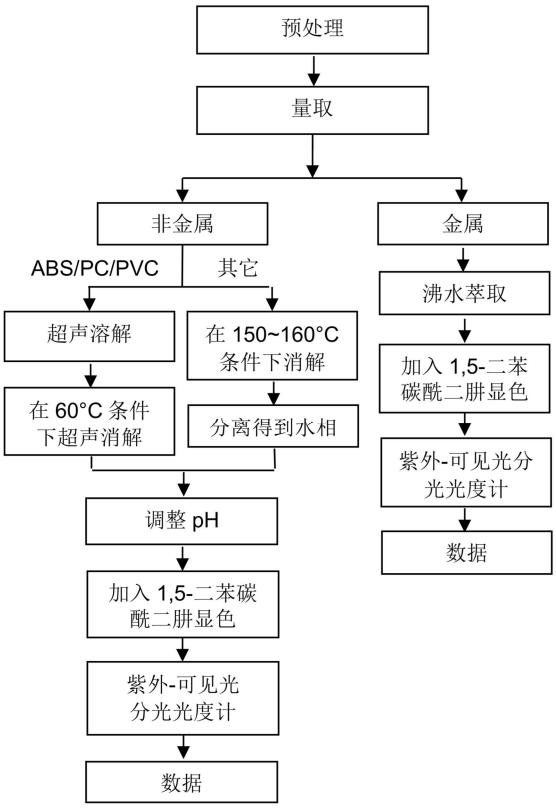
样品按照下述流程被完全消解



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附件

六价铬检测流程图



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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，VHRR，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，SMF，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，FPC，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，HJKT10，UDW2，314，A5001，A5002，MC100，FPC2.54，SGN，PHR，ZHR，205，5.2，C1801，C1802，2060，A5003，ME020，ME010，FPC/FFC，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，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, 1064,2064,3064,1080,2080,3080,1100,2100,3100,1120, 2120,3120,1150,2150,3150, 1180,2180,3180,1230,2230, 3230,1250,2250,3250,1280,2280,3280,1300,2300,3300, 1480,2480,3480, 1630,2630,3630,1780,2780,3780,1950, 2950,3950,1010,2010,3010,1013,2013,3013,1015,2015, 3015, 1016,2016,3016,1025,2025,3025,1035,2035,3035, 1045,2045,3045,1058,2058,3058,1999,2999,3999, 401,402,403,503,TPA,BX

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产品名称： PA66 版本日期：15/03/2017

化 学 品 安 全 说 明 书

MSDS

第一部分：化学制品、产品或公司信息

产品名称： PA66
产品别名：聚酰胺
责任方：浙江联和电子有限公司
一般用途:工程热塑性塑料

MSDS编号: PA66

第二部分：合成物或成分信息

组成部分：成分 CAS号码基础树脂 32131-17-2这是一种聚合物材料。所有成分和聚合物系统紧密结合，因此，目前正常的加工和处理情况下没有存在接触的可能性。本产品可能含有专利成分。根据美国《职业安全与卫生条例》，本产品没有被归类为危险品，此化学品安全说明书包含关于安全处理和合理使用本产品的有价值的重要信息。该说明书应妥善保管以便员工或其他使用该产品的用户使用。本产品不受加拿大《工作场所危险物质信息系统》管制。

第三部分：危险鉴定

紧急情况概述：轻微的不规则颗粒物状。燃烧分解可能会产生有危害性的气体基础树脂粉尘或粉末在美国矿务局相关粉尘爆炸的危害等级为低级。熔料可能会导致皮肤或眼睛接触性的热灼伤。此外，溢出的固体硬颗粒可能会造成滑倒的危险。

潜在健康影响：接触方式:皮肤和眼睛接触；气体吸入，如果温度过热的话。征兆症状：没有相关的具体资料。

即刻健康影响：
皮肤：本产品没有相关的具体资料。产品中可能含有的聚合物颗粒和纤维增强也可能会造成机械性的伤害。热性或熔化材料有潜在的可能导致热灼伤。
眼睛:本产品没有相关的具体资料。产品中可能含有的聚合物颗粒和纤维增强也可能会造成机械性的伤害。

吸入：	本产品没有相关的具体资料。从供应的形式来看，本产品不存在被吸入的危险；然而聚合物颗粒可能被认为一种是惰性的微害微粒。加热过程中可能会有产生刺激性气体的危险。
摄入：	本产品没有相关的具体资料。但是，基于高分子聚合物的生物活性，摄取本产品预计会造成轻微的毒性。
长期或滞后影响：	没有相关的具体资料。
致癌性：	国际癌症研究机构（ IARC）曾评估过本产品中可能含有的碳黑，并发现它可能对人类有致癌性（ 2B组）。本产品中的任何碳黑成分都被聚合物体系紧密结合，因此，目前正常的加工和处理情况下致癌的几率很小。
医疗条件	
风险加剧：	本产品没有相关的具体资料。废气可能会被释放，如果过热的话，会影响那些有呼吸系统慢性疾病的人。

第四部分：急救措施

皮肤：如果烫的或熔化的聚合物或者热气接触皮肤，迅速用冷水降温。如果聚合物被粘在皮肤上，不要擅自去除，但是允许粘附的聚合物自然脱落，应寻求医学处理。相比聚合物随着时间推移自行脱落而言，擅自去除粘在皮肤上的聚合物，可能会造成更多的组织损伤。

眼睛：用大量的水冲洗。如果仍旧不舒适，应寻求医疗处理，去除异物。

吸入：转移到空气新鲜之处。如果呼吸困难的情况仍然发生，应寻求医学处理。

摄入：如果相当数量的本产品被吞咽，应饮用两杯水来稀释，并寻求医学处理。

医生注意事项：本产品本质上是惰性和无毒的。然而，如果被加热到高温或被燃烧，可能会有气体排放出来（见第五和第十部分的气体排放）。在这些排放的气体中，一氧化碳和一氧化氮昀有可能具有显著的临床毒性。那些曾暴露在有毒气体中的患者需要检查碳氧血红蛋白水平和动脉血气。如果一个酸中毒患者的碳氧血红蛋白水平是正常的，考虑氰化物毒性。如果患者与气体的接触发生在密闭空间内，则存在窒息（二氧化碳逐渐替代氧气）发生的可能性。一氧化氮对呼吸道有着强烈的刺激性。如果患者可能已经吸入高浓度和刺激性的烟雾，应考虑监测肺水肿病延后发生的可能。

第五部分：救火措施

闪点:不适用
危险燃烧产物：一氧化碳、二氧化碳和氮氧化物
灭火介质：水、泡沫材料、二氧化碳或干化学制
剂灭火指南：消防人员应携带自给式呼吸器和全套防护服。消防人员避免逆风救火。水应该用来给火灾中各种容器的降温。水、泡沫和干化学制剂可能会对电器设备造成损伤。

第六部分：意外泄漏对策

泄漏处理程序：用适当工具清扫泄漏场所，收集泄漏物料，以便恢复和处理。

第七部分：处理和储藏

处理：没有合适的器械，不要处理烫的或者熔化的物料。工作场所应保持整洁有序。不要超过推荐的温度，使分解产物的释放昀小化。不要在有聚合物粉尘存在的场所抽烟。在传输和加工的过程中，应采取恰当的措施控制粉尘的产生和积累。
储藏：储藏在阴凉干燥的场所，保证树脂的干燥度。

第八部分：接触控制 /个人防护

工程控制：局部排气：建议在适当的时候以控制员工接触粉尘或蒸汽。总体而言，作为控制员工暴露在粉尘或者蒸汽中的唯一手段，此办法恐怕不能满足需要。
装备推荐：
皮肤：加热或熔化过程中，有机会接触物料时应穿着长裤、长袖、隔
热手套和面罩。
眼睛：推荐安全眼罩。
吸入：如果粉尘或分解气体的产生有可能高于所允许接触的上限值，推荐使用经国家职业安全与健康研究所认证的防毒面罩 /口罩。

接触指导方针 :本产品中可能含有的任何玻璃颗粒被聚合物系统紧密结合。残留的玻璃颗粒（<1%）可能存在，导致机械性的眼部、皮肤和呼吸刺激。包括机械加工或磨削在内的操作或部分应加以审查，以确保颗粒水平低于推荐的标准，本产品可能含有炭黑。见下列的接触极限值。

成分	机构	参数
炭黑	美国职业安全与健康条例 -允许接触极限	3.5 mg/cu m
	美国政府工业卫生专家会议 -临界值限定	3.5 mg/cu m
微害惰性粉尘	美国职业安全与健康条例 -允许接触极限	15 mg/cu m (全部) 5 mg/cu m (可吸入)
微害颗粒/微粒	美国政府工业卫生专家会议 -临界值限定	10 mg/cu m (全部) 3 mg/cu m (可吸入)

第九部分：物理和化学特性

外观：颗粒状物
气味：轻微的典型气味
物理状态：固态
气压：不适用
熔点（树脂）： 265℃（509℉）
溶解性：可忽略不计 <0.1%（水）
比重： 1.40~1.50
挥发率：<0.5按重量计

第十部分：稳定性和反应性

化学稳定性：在通常使用和储存条件下保持稳定
避免条件：燃烧：不要加热超过 650℉（ 343℃）。避免长时间暴露在温度高于 600℉（316℃）的环境。
不能共存性：强酸和氧化剂
危险分解物：一氧化碳、氨 /氨水、脂族胺、氨基化合物/酰胺、酮、腈和氢氰酸。
危险聚合反应：不会发生。

第十一部分：毒物学信息
本产品没有相关的具体资料。

第十二部分：生态学信息

生物毒性：对于树脂颗粒可能被野生动物摄入所造成的影响，我们还不是很清楚。如果是海鸟，一些海洋生物学家认为，鸟类消化道可能无法让塑料颗粒通过。因此，大量摄入颗粒可能会导致肠堵塞，饱食的错觉或营养吸收的减少，从而导致营养不良和饥饿。由塑料工业协会的发起的‘彻底清除行动’（OCS）的目标就是实现塑料颗粒零损失，防止其输入环境。
环境结果/信息：此材料被认为是不可生物降解的。

第十三部分：处置条件
处置：鼓励回收。按照当地政策法规处置本产品。

第十四部分：运输信息
不适用

第十五部分：法规信息

<美国>《有毒物质管理法》：
本产品的所有成分符合有毒物质管理法目录条例。
<美国>《超级基金增补和再授权法案》： 本产品不包含任何受限于《紧急规划和社区知权法》（1986）第 313章和《联邦法规汇编》第 40标题第 372部分中的报告规定的有毒化学物质。

第十六部分：其它信息

危害等级：	健康	可燃性	反应性	其它
国家防火协会	1	1	0	
危险物质鉴别系统	1	1	0	

否认声明： 本产品不适用于作为医学或牙科植入物的使用。为获取详细的工艺指导和良好的生产实践（净化、工艺参数、停炉等），请参阅相应的大赛璐公告。据我们所知，这里所含的信息是正确的。我们没有暗示或者保证此文件所列出的危险已经包含全部危险。大赛璐不做任何关于在你方工艺或与其他物质结合过程中安全使用本产品的明示或暗示性的保证。本产品的使用效果可能会因为其他材料的使用而恶化；或者说本产品可能增强，也可能恶化其他材料的使用效果。用户有其责任对任何使用或者使用方式加以仔细考虑并确定物料的适用性。用户必须符合所有适用的安全和健康标准。

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：本产品在固体时不具健康危害及危害
	环境影响：本产品在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/后须檫试干净，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：手套火手指套，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照射		
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	吸人：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	
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