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	
品 名 DESCRIPTION	
料 号 CUSTOMER PART NO	P0019
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
ZHEJIANG LIANHE ELECTRONICS CO.,LTD.
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核准（APPROVAL）	确认（CHECK）	制作（PREPARE）

P0019型端子料号说明 Description of item number

端子料号说明 TERMINAL

P 0019 N - T 2 2 A 305 P 2(*) Y - 1 - * (*) *

A: Wire to Board Connectors
B: Board-in Connectors
C: Wire to Wire Connectors
F: FFC/FPC Connectors
I : IDC
D: Chain Terminals and Splices

系列号 Series Number

K=直形带锁 N=直形
Z=旗形带锁 Q=旗形
X=横插带锁 H=横插
Y=叉形端子 J=插片
R=环形端子 C=圆形
G=接线端子
W=鲨鱼齿端子
特征类别(默认空) B=子弹形端子
Feature Category: U=耳扒形端子

产品类别 Product Category: T=端子 Terminal

同类别多型号序号 (默认空)
Same Series Different Type: 1~9

同型号多尺寸序号 (默认空)
Same Type Different size: 1~9

适用线规(默认空) A=小脚 B=中脚
Applicable Wire: C=高脚 D=大脚

料带厚度单位: mm X100 (0.3X100=30 默认空)

配合厚度单位: mm X10 (0.5X10=5 默认空)
注: 所有<灰色>说明, 为D系列分类附加料号及说明!

Z=紫铜 Copper
S=不锈钢 Stainless Steel
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 Nickel-Gold
表面处理 9=镀亮锡局部金 Half Gold-Tin Plating
Surface processing: 10=镀镍亮锡 Tin-Nickel Plating

镀层厚度(默认为空)

包装说明: Y=有字、N=无字

包装方式: 0=散装(袋装)、1=盘装、4=八角盘装、5=编带装 (常规默认为空)

包装数量: -**K: 客户定制数量,默认数量为空

客户专用代码
Customer Special Code: 表示和常规件不同,用来代表某个客户

其他说明: 如(U)=UL、软、低铅等

备注:表面处理内容只在产品标签中体现! 其他特殊要求位置不固定

其它料号说明 OTHER

P 0034 - B

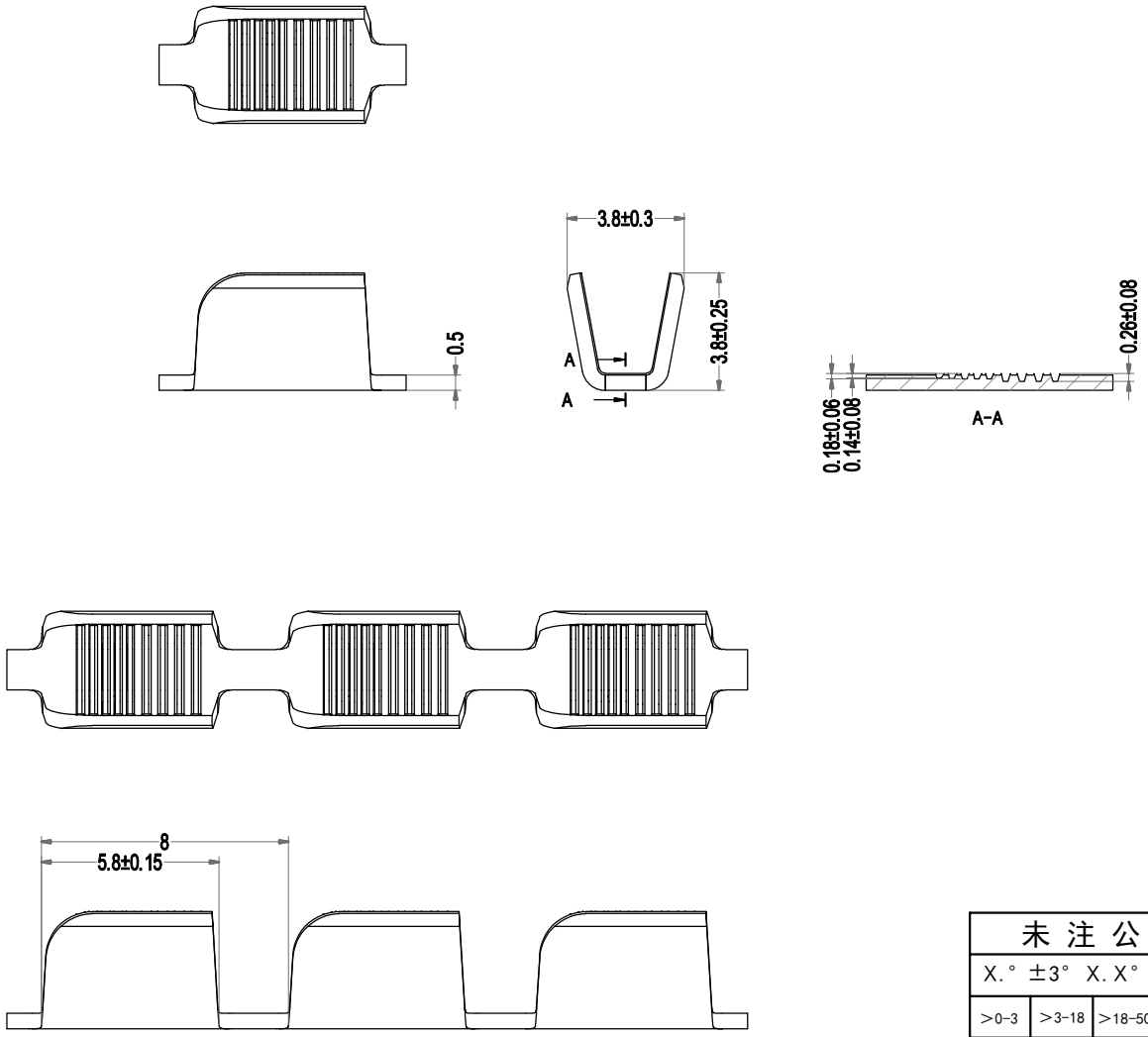
P: Other Types

产品序号 Product Number

同型号序号 Same Series Different Type: B~Z
(默认空)

端子承认图面

REV	SYM	REVISION RECORD	DR.	APPR.	DATE
A/0		原 始 版 本			A/0
A/1		更新产品型号说明及增加包装数	YF		20230106



Part No.		Material	Finish	Qty/reel
P0019-TB	62306-T11	Brass	TIN	30000pcs

未 注 公 差			
X.° ±3° X.X° ±0.5°			
>0-3	>3-18	>18-50	>50-120
±0.12	±0.15	±0.3	±0.5
制 作	审 核	批 准	

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

单位	比例	Design Units	SIZE	页码
MM Only	——	METRIC	A4	
材 料	图 号			Part No.
见图解	品 名	P0019-T		

旧底图总号
底图总号
签 字
日 期

产品规格书

PRODUCT SPECIFICAION

版本号
Version Number: P

产品编码
Part Number: P0019

产品性能测试 Performance test				
	项目 Item	测试条件 Test Condition	规格要求 Requirement	
1	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.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. 2.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.	
2	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.	10mΩ MAX	
3	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	60℃ MAX
4	电流循环 Current Cycling	相邻接触件之间或地线之间施加50Hz 800V AC(有效值),漏电流1mA的电压作用，时间1min。 Mate connectors, apply 800V AC for 1 minute between adjacent terminal or ground.	初始测量LLCR，每5000个周期测量一次。 Measure LLCR initially and every 5000 cycles.	
5	随机振动 Vibration,Random	将试样置于20至500 Hz之间的3.10 G均方根下。在三个相互垂直的平面上各三个小时。 Subject specimens to 3.10 G's rms between 20 to 500 Hz.Three hours in each of 3 mutually perpendicular planes.	外观 Appearance	无损伤 No Damage
			接触电阻 Contact Resistance	20mΩ MAX
			中断 Intermittence	1μsec MAX

产品规格书

PRODUCT SPECIFICAION

版本号
Version Number: P

产品编码
Part Number: P0019

产品性能测试 Performance test				
	项目 Item	测试条件 Test Condition	规格要求 Requirement	
6	终端抗拉强度 Termination Tensile Strength	以每分钟25+6mm的最大速率测定抗拉强度。 Determine tensile strength at a max rate of 25+ 6mm per minute.	AWG #14 AWG #15 AWG #16 AWG #17 AWG #18 AWG #19 AWG #20 AWG #21 AWG #22 AWG #23 AWG #24 AWG #25 AWG #26 AWG #27 AWG #28	109 N MIN 87.2N MIN 68.5N MIN 52.9N MIN 43.6N MIN 34.3N MIN 24.9N MIN 21.8N MIN 15.6N MIN 12.5N MIN 9.3N MIN 8.5N MIN 6.7N MIN 5.3N MIN 4.0N MIN
7	热冲击 Thermal Shock	使试样在-65℃和+150℃之间进行50次循环，每次循环30分钟 极端的温度。 Subject specimens to 50 cycles between-65℃ and +150℃ with 30 minutes at each.	外观 Appearance	无损伤 No Damage
8	恒定湿热 Humidity	湿度:40±2℃ 相对湿度:90%~95% 搁置时间:96小时,取出恢复2h后检查 Temperature:40±2℃ Relative Humidity:90%~95% Duration:96 hours	外观 Appearance	无损伤 No Damage
			接触电阻 LLCR	20mΩ MAX
9	温度寿命 Temperature Life	将样品置于150℃下96小时。 Subject specimens to 96 hours at 150℃.	外观 Appearance	无损伤 No Damage

焊接条件

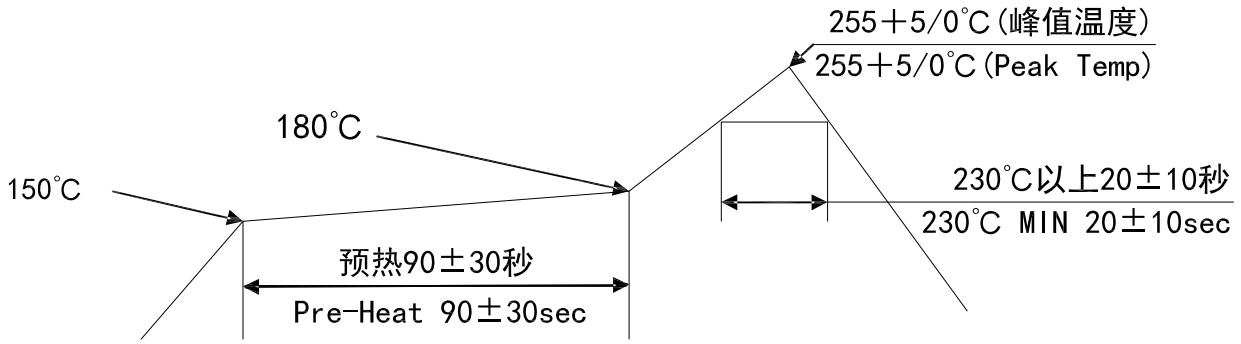
Conditions for soldering

版本号
Version Number: P

产品编码
Part Number: P0019

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.

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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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

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*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/T5169.21-2017，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：

中国质量认证中心 CHINA QUALITY CERTIFICATION CENTRE

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 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

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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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 Kejiao

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

Q 0073728

2015年版

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

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检测报告

编号: NGBEC2200904704　　日期: 2022年05月17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创新路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 :	NP22-002236 - NB
样品接收日期 :	2022年05月07日
检测周期 :	2022年05月07日 - 2022年05月17日
检测要求 :	根据客户要求检测
检测方法 :	请参见下一页
检测结果 :	请参见下一页
结论 :	基于所送样品进行的检测，镉、铅、汞、六价铬的检测结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

通标标准技术服务有限公司宁波分公司
授权签名

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C32B7C43

Ashley Zhang张倩倩
批准签署人

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检测结果：

检测样品描述：

样品编号	SGS样品ID	描述
SN1	NGB22-009047.001	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

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

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	*001*
镉 (Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	5
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
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25
(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，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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中国·浙江·宁波高新区凌云路1177号 邮编: 315040 t HL (86-574)89070271 t ML (86-574)89070242 sgs.china@sgs.com

附件:
XH , 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, 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,
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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F1008 F1009 F10010 F10011 F10012 F10013 F10014 F10015 F10016 F10017 F10018 F2541 F2542
F2543 F2544 F2545 F2546 F2547 F2548 F2549 P0001 P0002 P0003 P0004 P0005 P0006
P0007 P0008 P0009 P0010 P0011 P0012 P0013 P0014 P0015 P0016 P0017 P0018 P0019
P0020 P0021 P0022 P0023 P0024 P0025 P0026 P0027 D2301 D2302 D2303 D2304 D2305
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D2201 D2202 D2203 D2204 D2205 D2206 D2207 D2208 D2209

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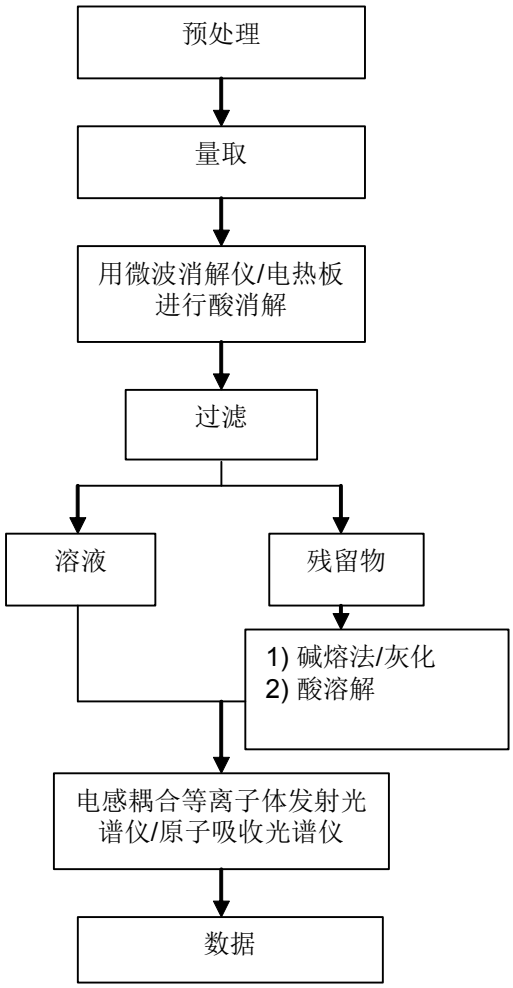
附件

元素(IEC62321) 测试流程图

1)样品按照下述流程被完全消解



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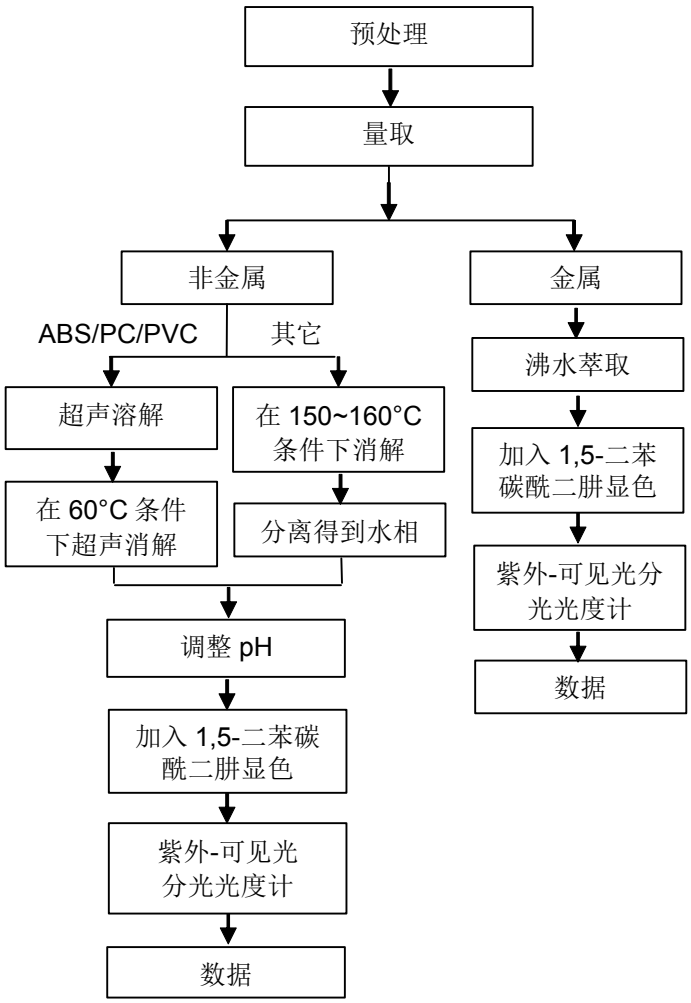
附件

六价铬测试流程图



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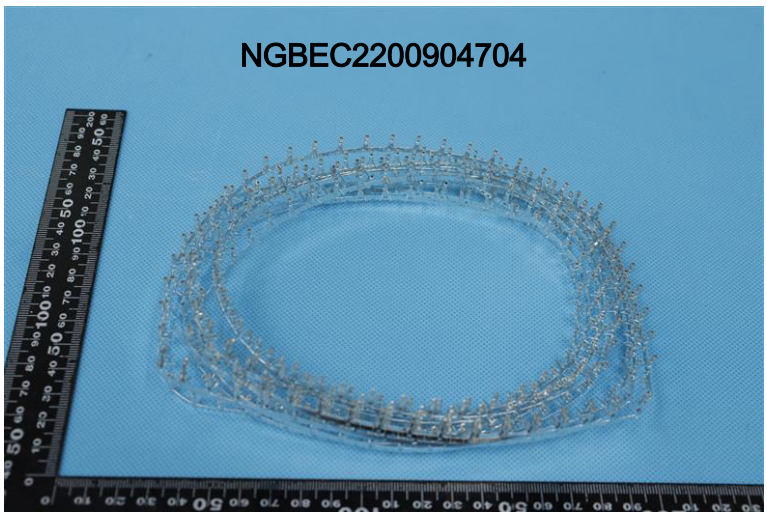
样品照片:



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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
制表日期	2021-3-23

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