



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: \_\_\_\_\_ B76203型连接器

料号 CUSERTOMER PART NO: \_\_\_\_\_ B76203

### 客户确认 APPROVED SIGNATURES

核准 APPROVAL: \_\_\_\_\_

日期 DATE: \_\_\_\_\_

工程 ENGINEERING: \_\_\_\_\_

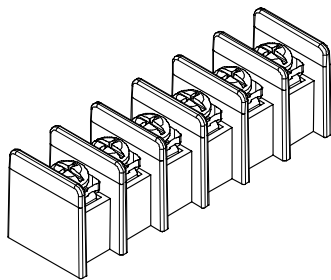
日期 DATE: \_\_\_\_\_

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 6P
2. 额定电流 Current rating: 15A AC,DC
3. 额定电压 Voltage rating: 250V AC,DC
4. 温度范围 Temperature range: -25°C to +105°C  
(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 / /  
环境测试后 After environmental testing / /
6. 绝缘电阻 Insulation resistance:  $\geq 500M\Omega$
7. 耐电压 Withstanding voltage: 2000V AC/minute
8. 适用线规 Applicable wire: /
9. 适用基板厚度 Applicable PC board thickness: /
10. 螺丝扭矩: 0.5N.m



|                                  |    |
|----------------------------------|----|
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制订 Edit: 石斛

日期 DATE: 2024-06-05

审核 Check: 天琴

日期 DATE: 2024-06-05

批准 Approval: 季育文

日期 DATE: 2024-06-05

# B76203料号说明 Description of item number

## 壳体料号说明 HOUSING

| B 76203 - S H B 02 X2 - N* - * - * - * - * - *                                                                                                       |                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A: Wire to Board Connectors<br>B: Board-in Connectors<br>C: Wire to Wire Connectors<br>D: Hard Splices Connectors<br>F: FFC/FPC Connectors<br>I: IDC |                                                                                                                                                                                                |
| 系列号 Series Number                                                                                                                                    |                                                                                                                                                                                                |
| 特征类别(默认空)<br>Feature Category: S=锁片型                                                                                                                 |                                                                                                                                                                                                |
| 产品类别<br>Product Category: H=壳体 Housing<br>P=密封件 Water Proofing<br>F=配件 Fitting                                                                       |                                                                                                                                                                                                |
| 同类别多型号序号(默认空)<br>Same Series Different Type: B-ZZ                                                                                                    |                                                                                                                                                                                                |
| 单列极数 The Pin Number of Single Row: 01~**                                                                                                             |                                                                                                                                                                                                |
| 多列列数 The Pin Number of Several Row: X2~X* (无则空)                                                                                                      |                                                                                                                                                                                                |
| M为堵孔, *为堵孔序号(例M1.2.5)(无则空)                                                                                                                           |                                                                                                                                                                                                |
| 1=PA66<br>2=PA66灼热丝-G<br>3=PA46<br>4=PA6T<br>5=PA9T<br>6=PB<br>7=PPO<br>壳体材料 8=LCP<br>Housing Material: 9=U=UL                                       | 10=PC<br>11=PA66无卤灼热丝<br>12=PA66高灼热丝B<br>13=PA66增强                                                                                                                                             |
| 壳体材料特性<br>Housing Material Specialty: ZG=灼热丝加玻纤                                                                                                      | V2 UL阻燃等级标准(默认不注明)<br>V0 UL阻燃等级标准<br>Z=灼热丝是按照(IEC60695/GB/T5169)标准,<br>符合GWIT750°C, GWF1960°C                                                                                                  |
| 壳体颜色<br>Housing Color: TG=透明绿 Transparent Green<br>壳体材料2/3/4/5/8/12默认米色<br>壳体材料7默认黑色<br>壳体材料1/6/9/10/11默认白色<br>壳体材料13默认透明<br>(默认可为空)                 | OR=橙色 Orange<br>P=粉色 Pink<br>R=红色 Red<br>VI=紫色 Violet<br>Y=黄色 Yellow<br>GY=灰色 Gray<br>BK=黑色 Black<br>G=绿色 Green<br>BL=蓝色 Blue<br>BR=棕色 Brown<br>TR=透明白 Transparent<br>W=白色 White<br>EC=米白 ECRU |
| 无卤标识<br>无卤产品加HF,有卤默认为空                                                                                                                               |                                                                                                                                                                                                |
| 客户专用代码<br>Customer Special Code: 表示和常规件不同,用来代表某个客户                                                                                                   |                                                                                                                                                                                                |
| 备注:*部分内容只在产品标签中体现! 其他特殊要求位置不固定                                                                                                                       |                                                                                                                                                                                                |

# B76203料号说明 Description of item number



## 针座料号说明 WAFER

| B 76203 - DHWVB 02 X2 - N* - C* - ** - ** - * - ** - ** - ** - ** - **                                                                                                                                                                                                                                                                                        |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------|--|--------|-------|--------------|-------------|-------|--------------|--------|-------|-----------|-------------|--------|--|--------------------------|-------|--|
| <p>A: Wire to Board Connectors<br/> F: FFC/FPC Connectors<br/> I: IDC</p>                                                                                                                                                                                                                                                                                     |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| 系列号 Series Number                                                                                                                                                                                                                                                                                                                                             |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| <p>DB=防呆柱+全包<br/> B=全包 All inclusive<br/> DH=防呆柱+高背型</p>                                                                                                                                                                                                                                                                                                      |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| <p>特征类别(默认空)H=高背型 High box type<br/> Feature Category: D=固定防呆柱 Fixed</p>                                                                                                                                                                                                                                                                                      |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| <p>WV=直针座 Straight Angle<br/> WR=弯针座 Right Angle<br/> SV=立贴式 V-SMT</p>                                                                                                                                                                                                                                                                                        |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| <p>产品类别<br/> Product Category: SR=卧贴式 R-SMT</p>                                                                                                                                                                                                                                                                                                               |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| <p>同类别多型号序号(默认空)<br/> Same Series Different Type: B-ZZ</p>                                                                                                                                                                                                                                                                                                    |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| 单列极数 The Pin Number of Single Row: 01~**                                                                                                                                                                                                                                                                                                                      |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| 多列列数 The Pin Number of Several Row: X2~X* (无则空)                                                                                                                                                                                                                                                                                                               |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| N为缺针,M为堵孔,*为序号(例N1.2.5)(无则空)                                                                                                                                                                                                                                                                                                                                  |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| C为插针样式不同(除打点、缺针外)*为序号(无则空)                                                                                                                                                                                                                                                                                                                                    |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| 打点样式                                                                                                                                                                                                                                                                                                                                                          |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| Point Style:K为打点,K2.4表示在第2枚,第4枚上打点,默认打点无数字标注(无则空)                                                                                                                                                                                                                                                                                                             |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| 接触件材料 P=磷青铜 Phos.Bronze                                                                                                                                                                                                                                                                                                                                       |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| Contact Material: B=黄铜 Brass                                                                                                                                                                                                                                                                                                                                  |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| <p>0=素材酸洗 None<br/> 1=镀镍 Nickel Plating<br/> 2=镀亮锡 Tin Plating<br/> 3=镀镍氯光锡 Matt Tin-Nickel Plating<br/> 4=镀铅锡 Tin-Lead Plating<br/> 5=镀铜锡 Tin-Cu Plating<br/> 6=镀镍银 Silver-Nickel Plating<br/> 7=镀镍金 Gold-Nickel Plating<br/> 8=镀镍局部金 Half Gold-Nickel Plating<br/> 9=镀亮锡局部金 Half Gold-Tin Plating</p>                                                       |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| 表面处理                                                                                                                                                                                                                                                                                                                                                          |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| Surface Processing: 10=镀镍亮锡 Tin-Nickel Plating (A5001默认B3)                                                                                                                                                                                                                                                                                                    |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| <table border="0"> <tr> <td>1=PA66</td> <td>6=PBT</td> <td>11=PA66无卤灼热丝</td> </tr> <tr> <td>2=PA66灼热丝-G</td> <td>7=PPO</td> <td>12=PA66高灼热丝B</td> </tr> <tr> <td>3=PA46</td> <td>8=LCP</td> <td>13=PA66增强</td> </tr> <tr> <td>壳体材料 4=PA6T</td> <td>9=U=UL</td> <td></td> </tr> <tr> <td>Housing Material: 5=PA9T</td> <td>10=PC</td> <td></td> </tr> </table> |        |              |  | 1=PA66 | 6=PBT | 11=PA66无卤灼热丝 | 2=PA66灼热丝-G | 7=PPO | 12=PA66高灼热丝B | 3=PA46 | 8=LCP | 13=PA66增强 | 壳体材料 4=PA6T | 9=U=UL |  | Housing Material: 5=PA9T | 10=PC |  |
| 1=PA66                                                                                                                                                                                                                                                                                                                                                        | 6=PBT  | 11=PA66无卤灼热丝 |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| 2=PA66灼热丝-G                                                                                                                                                                                                                                                                                                                                                   | 7=PPO  | 12=PA66高灼热丝B |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| 3=PA46                                                                                                                                                                                                                                                                                                                                                        | 8=LCP  | 13=PA66增强    |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| 壳体材料 4=PA6T                                                                                                                                                                                                                                                                                                                                                   | 9=U=UL |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| Housing Material: 5=PA9T                                                                                                                                                                                                                                                                                                                                      | 10=PC  |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| <p>V2 UL阻燃等级标准(默认不注明)<br/> V0 UL阻燃等级标准<br/> Z=灼热丝是按照(IEC60695/GB/T5169)标准,<br/> 符合GWIT750°C,GWFI960°C</p>                                                                                                                                                                                                                                                     |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| 壳体材料特性                                                                                                                                                                                                                                                                                                                                                        |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| Housing Material Specialty: ZG=灼热丝加玻纤                                                                                                                                                                                                                                                                                                                         |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| 其他特殊要求                                                                                                                                                                                                                                                                                                                                                        |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| Other Special Requirements: 如:SE(对固定力要求高5N)                                                                                                                                                                                                                                                                                                                   |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| <p>OR=橙色 Orange<br/> P=粉色 Pink<br/> R=红色 Red<br/> VI=紫色 Violet<br/> Y=黄色 Yellow<br/> GY=灰色 Gray<br/> BK=黑色 Black<br/> G=绿色 Green<br/> BL=蓝色 Blue<br/> BR=棕色 Brown<br/> TR=透明白 Transparent<br/> W=白色 White<br/> EC=米白 ECRU</p>                                                                                                                                 |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| <p>壳体颜色<br/> Housing Color: TG=透明绿 Transparent Green</p>                                                                                                                                                                                                                                                                                                      |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| <p>壳体材料2/3/4/5/8/12默认米色<br/> 壳体材料7默认黑色<br/> 壳体材料1/6/9/10/11默认白色<br/> 壳体材料13默认透明 (默认可为空)</p>                                                                                                                                                                                                                                                                   |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| 无卤标识                                                                                                                                                                                                                                                                                                                                                          |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| 无卤产品加HF,有卤默认为空                                                                                                                                                                                                                                                                                                                                                |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| 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                                                                                                                                                                                                                                                                                                                      |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |
| 备注:*部分内容只在产品标签中体现! 其他特殊要求位置不固定                                                                                                                                                                                                                                                                                                                                |        |              |  |        |       |              |             |       |              |        |       |           |             |        |  |                          |       |  |

# B76203料号说明 Description of item number



## 端子料号说明 TERMINAL

B 76203 N - T 2 2 A 30 5 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=镀镍光亮锡 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  
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

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

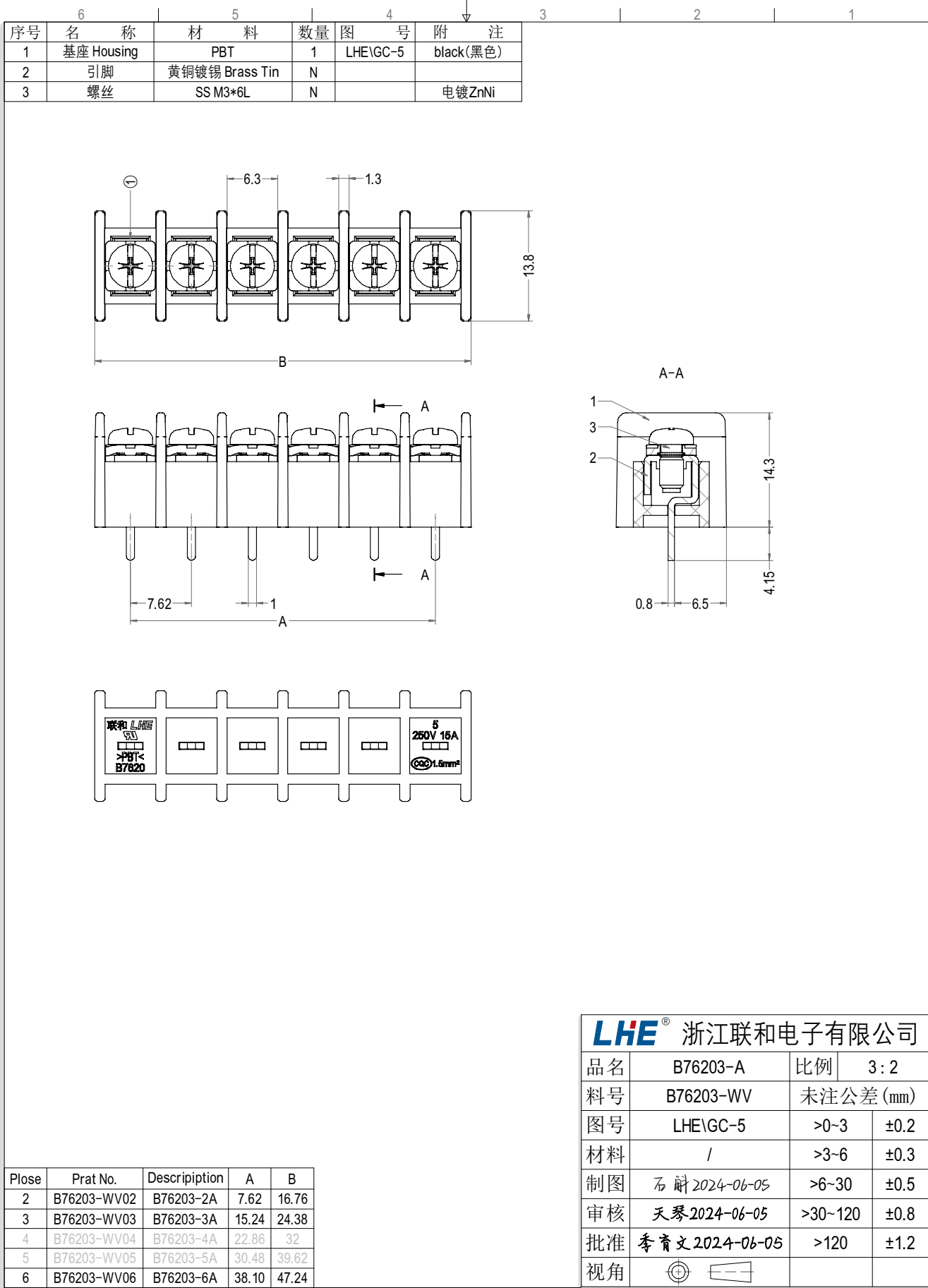
P 0001 - B

P: Other Types

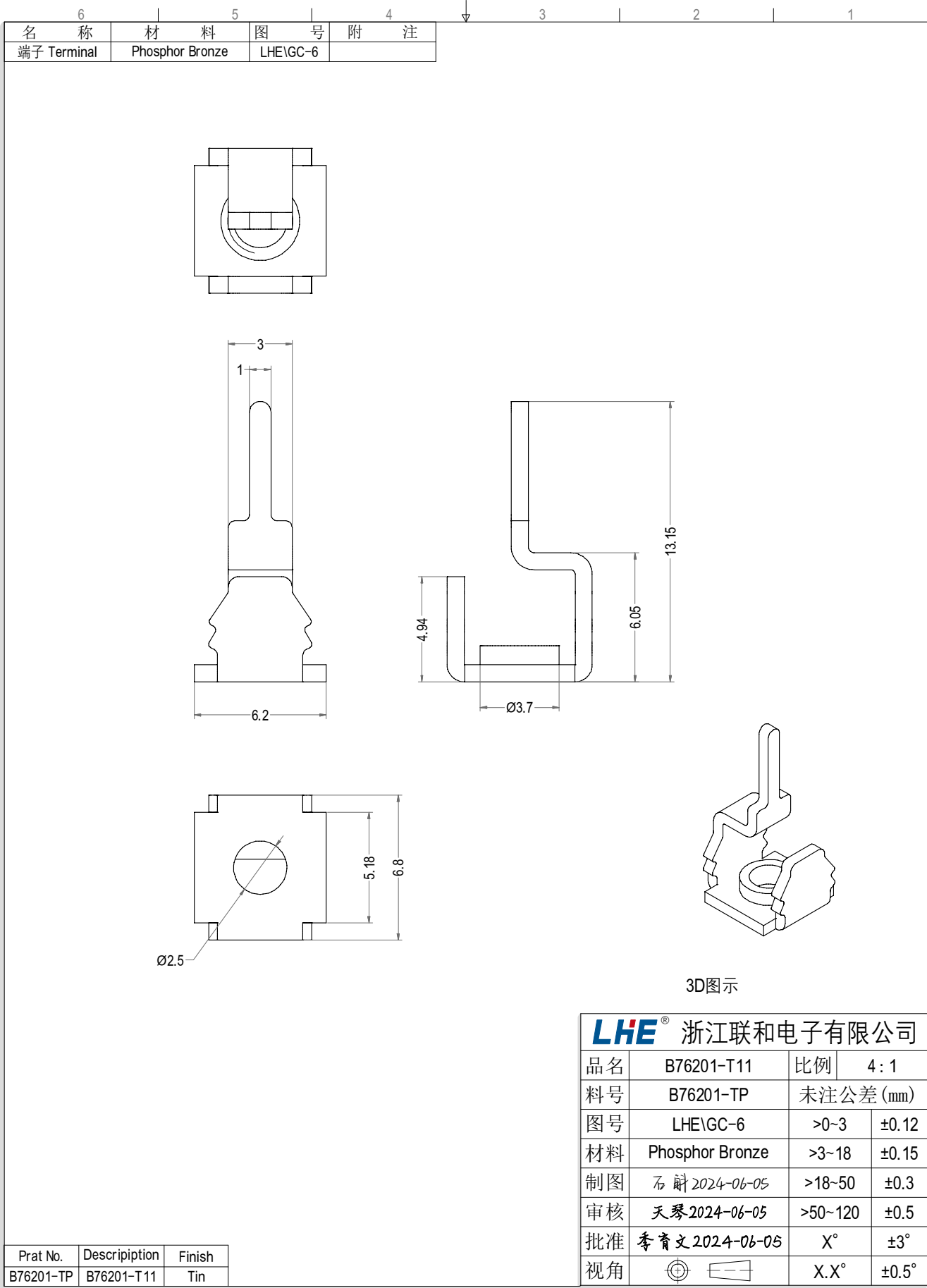
产品序号 Product Number

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

B76203型连接器承认书图面



B76203型连接器承认书图面



| 项目 Item                                        | 测试条件 Test Condition                                                                                                                                                                                                                                                     | 规格要求 Requirement                                                                                                                                                                                                                                                                                                                                                                                                 |                               |                                |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------|
| 1.外观<br>Appearance                             | 目测 Visual by eye<br>视力 Light: >1.0<br>照明 Lamp: 200~300Lx<br>目测距离 Space: 0.3~0.5m<br>GB/T 5095.1 Method 1a                                                                                                                                                               | 1.塑料件表面应无明显疤痕、凹陷、开裂及影响使用的变形。<br>Plastic part:smooth and flat surface without discolor,broken,crack distortion defects is acceptable.<br>2.金属件表面无锈蚀、氧化、无明显的机械损伤等缺陷。<br>Metal part:btight and even surface without rust,oxide,fog and obvious physical damage defects is acceptable.<br>3.导线表面清洁、无破损等缺陷,印字及标志清晰。<br>Wire:clearing surface without discolor,broken defects,indistinct words and mark is acceptable. |                               |                                |
| 2.壳体/端子固定力<br>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;<br>速度不大于25mm/min。<br>Apply axial pull out force at the speed rate of not more 25mm/min on the pin assembled in the housing.<br>GB/T 5095.8 Method 15d/EIA-364-29B                                                                            | /                                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                |
| 3.插入力与拔出力<br>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。<br>Insertion and withdraw single contact at the speed rate of 1mm/s~5mm/s.<br>相配的连接器的以1mm/s~5mm/s的速度沿接插器轴线方向插入和拔出。<br>Insertion and withdraw connectors at the speed rate of 1mm/s~5mm/s.<br>GB/T 5095.7 Method 13b/EIA-364-13B | 极数<br>Poles                                                                                                                                                                                                                                                                                                                                                                                                      | 插入力(最大值N)<br>Insertion(N Max) | 拔出力(最小值N)<br>Withdrawal(N Min) |
|                                                |                                                                                                                                                                                                                                                                         | 1                                                                                                                                                                                                                                                                                                                                                                                                                | 1st<br>/                      | 1st<br>/                       |
| 4.针的固定力<br>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;<br>速度不大于25mm/min。<br>Apply axial push out force at the speed rate of not more 25mm/minute on the terminal assembled in the base.<br>GB/T 5095.8 Method 15a/ EIA-364-29B                                                                    | /                                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                |
| 5.压着部位抗拉强度<br>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;<br>速度不大于25mm/min。<br>Fix the crimped terminal, apply axial pull out force on the wire at the speed rate of not more 25mm/min.<br>GB/T5095.8 Method 16d/EIA-364-08B                                                                         | /                                                                                                                                                                                                                                                                                                                                                                                                                | /                             | /                              |
|                                                |                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                  |                               |                                |
|                                                |                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                  |                               |                                |
|                                                |                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                  |                               |                                |
|                                                |                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                  |                               |                                |



| 项目 Item                                     | 测试条件 Test Condition                                                                                                                                                                                                                                                                                                                                                                                                                          | 规格要求 Requirement                   |                         |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------|
| 6. 机械振动<br>Vibration                        | 插合连接器, 串联在一直流电源上, 电流100mA;<br>并模拟正常工作状态, 振频为10~55Hz、振幅1.5mm;<br>每一轴线扫频循环次数10次、2小时。<br>Frequency: 10~55Hz Amplitude: $\pm 1.5\text{mm}$<br>Duration: 2 hours in each X,Y,Z axes<br>GB/T 5095.4 Method 6d/EIA-364-28D                                                                                                                                                                                                                          | 外观<br>Appearance                   | /                       |
|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                              | 接触电阻<br>Contact Resistance<br>LLCR | /                       |
| 7. 机械冲击<br>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),<br>在测试过程中通以100mA电流。<br>冲击强度: $490\text{m/s}^2$ 持续时间: 11ms<br>Mated connectors and subject to the following shock<br>conditions, 3 times of shock shall be applied for each 6 directions<br>along 3 mutually perpendicular axes, passing DC 100mA current<br>during the test (Total of 18 shocks) Test Pulse:<br>Half Sine Peak Value: $490\text{m/s}^2$ Duration: 11ms<br>GB/T 5095.4 Method 6c/EIA-364-27B | 中断 Intermittence                   | /                       |
|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                              | 外观<br>Appearance                   | /                       |
| 8. 机械寿命<br>Repeated<br>insertion/withdrawal | 以每分钟插拔10次的速率, 插拔50次。<br>When mated up to 50 cycles repeatedly by the rate of 10 cycles<br>per minute.<br>GB/T 5095.5 Method 9a/EIA-364-09C                                                                                                                                                                                                                                                                                                   | 接触电阻<br>Contact Resistance<br>LLCR | /                       |
|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                              | 外观<br>Appearance                   | /                       |
| 9. 接触电阻<br>Contact Resistance               | 插合连接器, 用小功率电路进行测试。<br>Mate connectors, measure by dry circuit.<br>GB/T 5095.2 Method 2a/EIA-364-23B                                                                                                                                                                                                                                                                                                                                          | /                                  |                         |
| 10. 绝缘电阻<br>Insulation Resistance           | 在相邻接触件之间或地线之间, 用500V DC电压进行测试。<br>Apply 500V DC between adjacent terminal or ground.<br>GB/T 5095.2 Method 3a/EIA-364-21C                                                                                                                                                                                                                                                                                                                    | $\geq 500\text{M}\Omega$           |                         |
| 11. 耐电压<br>Dielectric Strength              | 相邻接触件之间或地线之间施加50Hz 2000V AC(有效值),<br>漏电流1mA的电压作用, 时间1min。<br>Mate connectors, apply 2000V AC for 1 minute between adjacent<br>terminal or ground.<br>GB/T 5095.2 Method 4a/EIA-364-20B                                                                                                                                                                                                                                                       | 无击穿和飞弧现象<br>No Breakdown           |                         |
| 12. 温度上升<br>Temperature Rise                | 插合连接器, 通以最大允许电流。<br>GB/T 5095.3 Method 5a/EIA-364-70A                                                                                                                                                                                                                                                                                                                                                                                        | 温度最大上升<br>Temperature Rise         | $\leq 45^\circ\text{C}$ |
| 13. 耐高温<br>Heat Resistance                  | 连接器配合后, 于 $+105^\circ\text{C} \pm 2^\circ\text{C}$ 的空气中放置96小时, 然后再回到<br>室温中放置1~2小时测定<br>Mated connectors are exposed to a temperature of $+105^\circ\text{C} \pm 2^\circ\text{C}$<br>for 96 hours.<br>GB/T 5095.6 Method 11i /EIA-364-17B                                                                                                                                                                                                    | 外观<br>Appearance                   | 无损伤<br>No Damage        |
| 14. 耐低温<br>Cold Resistance                  | 连接器配合后, 于 $-25^\circ\text{C} \pm 2^\circ\text{C}$ 的空气中放置96小时, 然后再回到<br>室温中放置1~2小时测定<br>Mated connectors are exposed to a temperature of $-25^\circ\text{C} \pm 2^\circ\text{C}$<br>for 96 hours.<br>GB/T 5095.6 Method 11i /EIA-364-17B                                                                                                                                                                                                      | 接触电阻<br>Contact Resistance<br>LLCR | /                       |

| 项目 Item                                                              | 测试条件 Test Condition                                                                                                                                                                                                                                                                         | 规格要求 Requirement                                                                                                                                                                                                                                                                |                  |
|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 15. 恒定湿热<br>Humidity                                                 | 温度 Temperature: 40±2℃<br>相对湿度 Relative Humidity: 90%~95%<br>搁置时间 Duration: 96h, 取出恢复2小时后检查<br>GB/T 5095.6 Method 11c/EIA-364-31B                                                                                                                                                            | 外观<br>Appearance                                                                                                                                                                                                                                                                | 无损伤<br>No Damage |
|                                                                      |                                                                                                                                                                                                                                                                                             | 耐电压<br>Dielectric Strength                                                                                                                                                                                                                                                      | 2000V            |
| 16. 温度循环<br>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:<br>a)在-25℃±2℃的恒温条件下放置0.5小时;<br>b)在+105℃±2℃的恒温条件下放置0.5小时;<br>从a)到b)为一个循环周期,共进行5个循环。恢复1h后检查。<br>状态转换时间不多于1小时。<br>Mated connectors are exposed to 5 cycles of:<br>a)-25℃±2℃ 0.5hour b)+105℃±2℃ 0.5hour<br>GB/T 5095.6 method 11d/EIA-364-32C                         | 绝缘电阻<br>Insulation Resistance                                                                                                                                                                                                                                                   | ≥500MΩ           |
|                                                                      |                                                                                                                                                                                                                                                                                             | 接触电阻<br>Contact Resistance<br>LLCR                                                                                                                                                                                                                                              | /                |
| 17.盐雾<br>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24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。<br>24 hour exposure to a saltspray from the 5%±1 solution.<br>GB/T 5095.6 Method 11f/EIA-364-26B                                                                                                 | 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。)<br>Appearance:No Damage(No erosion with material exposed.And with plating material,slight erosion on the cutting surface acceptable)                                                                                         |                  |
| 18. 可焊性<br>Solderability                                             | 把测试样品需要焊接的部位浸入焊锡炉中(锡炉温度235℃±5℃)2±0.5秒钟。<br>Soldering time: 2±0.5 sec Solder Temperature:235℃±5℃<br>GB/T 5095.6 Method 12a/EIA-364-52                                                                                                                                                        | 上锡率≥90%<br>90% of immersed area must show no voids,pin holes                                                                                                                                                                                                                    |                  |
| 19. 耐焊接热<br>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℃±5℃);5±1秒钟后,在正常的条件下恢复1小时。<br>Soldering time: 5±1 sec Solder Temperature:260℃±5℃<br>GB/T 5095.6 Method 12d/EIA-364-56A                                                                                                                                            | 外观<br>Appearance                                                                                                                                                                                                                                                                | 无损伤<br>No Damage |
| 20. 灼热丝测试<br>Glow Wire<br>(只针对GWT750℃产品<br>Only for GWT750℃products) | 750C灼热丝顶部接触试验样品,<br>接触时间:(30±1) s<br>接近和离开速率: 10mm/s~25mm/s<br>灼热丝进入或贯穿试验样品深度:(7±0.5) mm<br>750℃ glow wire contacts with mated connector.<br>Time: (30+1) s<br>Speed of closing to and leaving: 10mm/s-25mm/s<br>Depth that glow wire penetrates mated connector: ( 7-05 mm<br>GB/T 5169.10 | 1.试验样品燃烧时间不超过2s。<br>The time that mated connector burns is not more than 2s.<br>2、灼热丝离开后的30s内样件无火焰或灼热情况,且无滴落物或滴落物不燃烧。<br>30s after glow wire leaves mated connector, it does not burn or is no incandescence and it does not fall something or falling something does not burn. |                  |
| 21. 耐酸性(二氧化硫)<br>Acid resistance(SO <sub>2</sub> )                   | 连接器闭合连接,3±1ppm,<br>40±2℃.96 小时<br>Mated connector,3±1ppm,40±2℃<br>Duration 96hours<br>GB/T2423.51                                                                                                                                                                                           | 接触电阻<br>Contact Resistance<br>LLCR                                                                                                                                                                                                                                              | /                |

| 项目 Item                 | 测试条件 Test Condition                                                                                                                                                 | 规格要求 Requirement                   |   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---|
| 22.氨气测试<br>Ammonia test | 连接器闭合连接，放置于浓度为 25 mL/L 的 3% 的 NH <sub>3</sub> 的空气中7小时<br>Mated connector is put into atmosphere that rated 25 ml/L of 3% NH <sub>3</sub> for 7 hours<br>GB/T2423.51 | 接触电阻<br>Contact Resistance<br>LLCR | / |

\* 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: 石斛

日期 DATE: 2024-06-05

审核 Check: 天琴

日期 DATE: 2024-06-05

批准 Approval: 季育文

日期 DATE: 2024-06-05

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E59481

Component - Plastics

Guide Information

**CHANG CHUN PLASTICS CO LTD**

No 8 Huaxi Rd, Daliao District, Kaohsiung City 83164 TW

**4130**

Polybutylene Terephthalate (PBT), glass reinforced "LONGLITE", furnished as pellets

| Color | Min. Thk<br>(mm) | Flame<br>Class | HWI | HAI | RTI<br>Elec | RTI<br>Imp | RTI<br>Str |
|-------|------------------|----------------|-----|-----|-------------|------------|------------|
| ALL   | 0.38             | V-0            | 4   | 0   | 140         | 140        | 140        |
|       | 0.74             | V-0            | 4   | 0   | 140         | 140        | 140        |
|       | 1.5              | V-0, 5VA       | 3   | 0   | 140         | 140        | 140        |
|       | 3.0              | V-0, 5VA       | 2   | 0   | 140         | 140        | 140        |

Comparative Tracking Index (CTI): 2

Dielectric Strength (kV/mm): 27

High-Voltage Arc Tracking Rate (HVTR): 4

Dimensional Change (%): -

Inclined Plane Tracking (IPT) kV: -

Volume Resistivity (10<sup>8</sup> ohm-cm): 14Surface Resistivity (10<sup>8</sup> ohms/square): -

High Volt, Low Current Arc Resis (D495): 7

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 1987-09-01

Last Revised: 2020-09-02

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**IEC and ISO Test Methods**

| Test Name                      | Test Method                      | Units             | Thk (mm) | Value          |
|--------------------------------|----------------------------------|-------------------|----------|----------------|
| Flammability                   | IEC 60695-11-10, IEC 60695-11-20 | Class (color)     | 0.38     | V-0 (ALL)      |
|                                |                                  |                   | 0.74     | V-0 (ALL)      |
|                                |                                  |                   | 1.5      | V-0, 5VA (ALL) |
|                                |                                  |                   | 3.0      | V-0, 5VA (ALL) |
| Glow-Wire Flammability (GWI)   | IEC 60695-2-12                   | °C                | 0.38     | 960            |
|                                |                                  |                   | 0.74     | 960            |
|                                |                                  |                   | 1.5      | 960            |
|                                |                                  |                   | 3.0      | 960            |
| Glow-Wire Ignition (GWI)       | IEC 60695-2-13                   | °C                | 0.38     | 750            |
|                                |                                  |                   | 0.74     | 750            |
|                                |                                  |                   | 1.5      | 725            |
|                                |                                  |                   | 3.0      | 800            |
| IEC Comparative Tracking Index | IEC 60112                        | Volts (Max)       | -        | -              |
| IEC Ball Pressure              | IEC 60695-10-2                   | °C                | -        | 210            |
| ISO Heat Deflection (1.80 MPa) | ISO 75-2                         | °C                | -        | -              |
| ISO Tensile Strength           | ISO 527-2                        | MPa               | -        | -              |
| ISO Flexural Strength          | ISO 178                          | MPa               | -        | -              |
| ISO Tensile Impact             | ISO 8256                         | kJ/m <sup>2</sup> | -        | -              |
| ISO Izod Impact                | ISO 180                          | kJ/m <sup>2</sup> | -        | -              |
| ISO Charpy Impact              | ISO 179-1                        | kJ/m <sup>2</sup> | -        | -              |

# 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) JWPFL-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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## 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 浙江联和电子有限公司  
及注册地址 浙江省乐清市乐清湾港区乐商创业园

制造商名称 浙江联和电子有限公司  
及注册地址 浙江省乐清市乐清湾港区乐商创业园

生产企业名称 浙江联和电子有限公司  
及生产地址 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°C, 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。

可通过扫描下方二维码或登录国家认监委网站 ( www.cnca.gov.cn ) 查验证书信息



签发: 陆杨

中国质量认证中心

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

中国·北京·南四环西路188号9区 100070

电话: +86 10 83886666

C 0453132

Verification No.: CLZJ1411264692



## 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

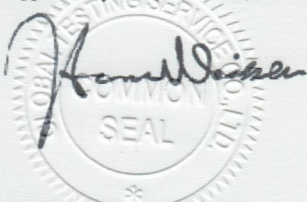
Test Standard: EN 60320-1:2001/A1:2007  
 EN 60529:1991/A1:2000

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



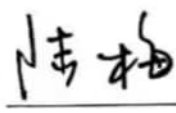
For and on behalf of  
 Global Testing Services Co., Ltd



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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|  <b>PRODUCT CERTIFICATION</b>                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CERTIFICATE NO.:</b> CQC17134174484                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Valid from:</b> Jan.20,2021                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Valid until:</b> Aug.31,2025                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                     |
| <b>NAME AND REGISTERED ADDRESS OF THE APPLICANT</b>                                                                                                                                                                                                                                          | Zhejiang Lianhe Electronics Co., Ltd.<br>Yueshang Pioneer Park,Yueqingwan Area, Yueqing City, Zhejiang Province                                                                                                                                                                                                                                                     |
| <b>NAME AND REGISTERED ADDRESS OF THE MANUFACTURER</b>                                                                                                                                                                                                                                       | Zhejiang Lianhe Electronics Co., Ltd.<br>Yueshang Pioneer Park,Yueqingwan Area, Yueqing City, Zhejiang Province                                                                                                                                                                                                                                                     |
| <b>NAME AND LOCATION OF THE FACTORY</b>                                                                                                                                                                                                                                                      | Zhejiang Lianhe Electronics Co., Ltd.<br>No. 8, Chuangxin Road, Yueqing Bay Port District, Yueqing City, Zhejiang Province                                                                                                                                                                                                                                          |
| <b>PRODUCT NAME, MODEL AND SPECIFICATION</b>                                                                                                                                                                                                                                                 | Connector ( PA66 )<br>See Annex , Material name: PA66, material grade: A3RV0, All color, Ball pressure:200°C, 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 |
| <b>THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS</b>                                                                                                                                                                                                                             | 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                                                                                                                                                                               |
| <b>TYPE OF CERTIFICATION SCHEMES</b>                                                                                                                                                                                                                                                         | 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.<br>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: <a href="http://www.cnca.gov.cn">www.cnca.gov.cn</a>                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                           |  <b>SIGNATURE:</b>                                                                                                                                                                           |
| <b>CHINA QUALITY CERTIFICATION CENTRE</b>                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                     |
| <a href="http://www.cqc.com.cn">http://www.cqc.com.cn</a>                                                                                                                                                                                                                                    | Section 9, No.188, Nansihuan Xilu, Beijing 100070 P.R.China                                                                                                                                                                                                                                                                                                         |
| Tel: +86 10 83886666                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                     |

C 0453132



*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: SHAEC23015565204

日期: 2023 年 09 月 28 日

第 1 页, 共 10 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: PBT 连接器 白色  
型号: GH-7Y  
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: TIC1020230922183257HWBH  
样品接收时间: 2023 年 09 月 25 日  
检测周期: 2023 年 09 月 25 日 ~ 2023 年 09 月 28 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)、邻苯二甲酸丁苯酯(BBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP) | 符合 |

通标标准技术服务(上海)有限公司  
授权签名

罗萍

Carol Luo 罗萍  
批准签署人



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3<sup>rd</sup> Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233 TEL: (86-21) 61402553 FAX: (86-21) 64953679 [www.sgs.com](http://www.sgs.com)  
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 TEL: (86-21) 61402594 FAX: (86-21) 61156899 [e.sgs.china@sgs.com](mailto:e.sgs.china@sgs.com)

Member of the SGS Group (SGS SA)



## 检测报告

编号: SHAEC23015565204

日期: 2023 年 09 月 28 日

第 2 页, 共 10 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   | SHA23-0155652-0001.C001 | 白色固体 |

## 备注:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = 方法检测限

(3) ND = 未检出 (&lt; 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-乙基己基)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   | 11 |
| 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 |
| 七溴二苯醚 (HeptaBDE) | -    | mg/kg | 5   | ND |
| 八溴二苯醚 (OctaBDE)  | -    | mg/kg | 5   | ND |



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检测报告

编号：SHAEC23015565204

日期：2023 年 09 月 28 日

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| 检测项目                   | 限值   | 单位    | MDL | A1 |
|------------------------|------|-------|-----|----|
| 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。

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。

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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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编号: SHAEC23015565204

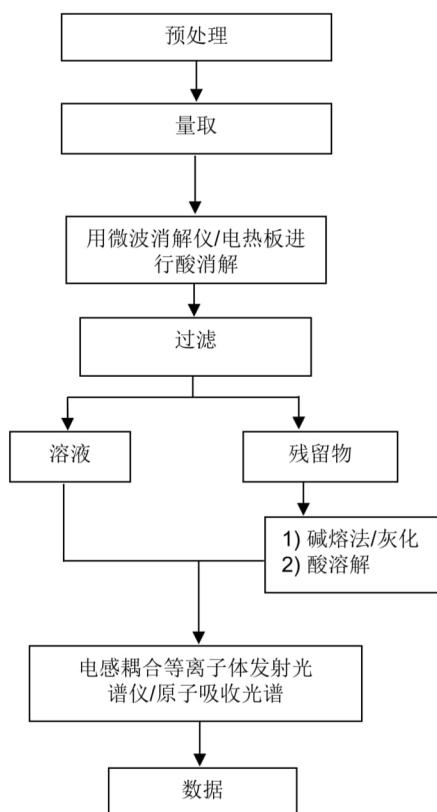
日期: 2023 年 09 月 28 日

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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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## 检测报告

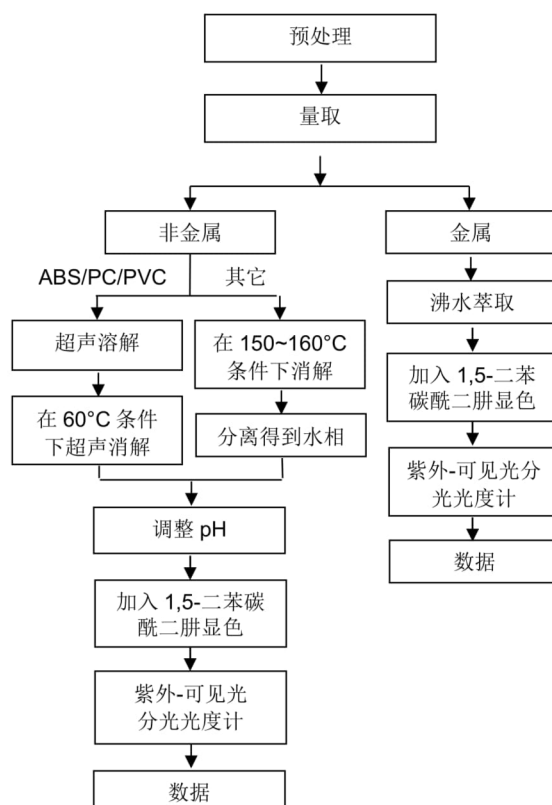
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## 六价铬检测流程图



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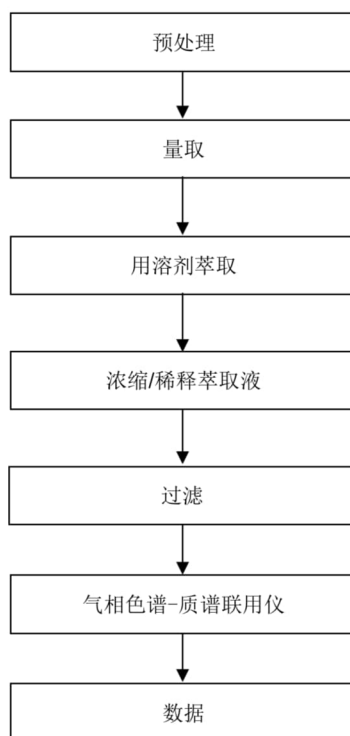
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## PBBs/PBDEs 检测流程图



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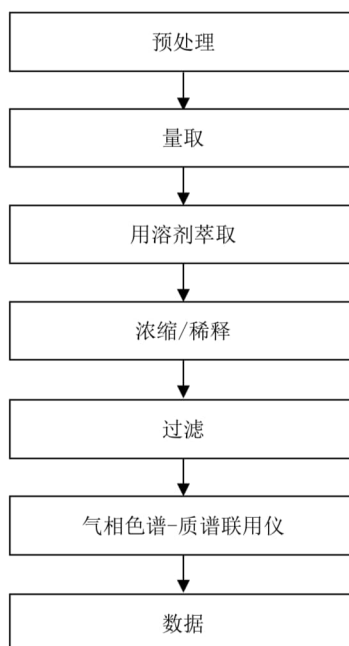
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## Phthalates 检测流程图



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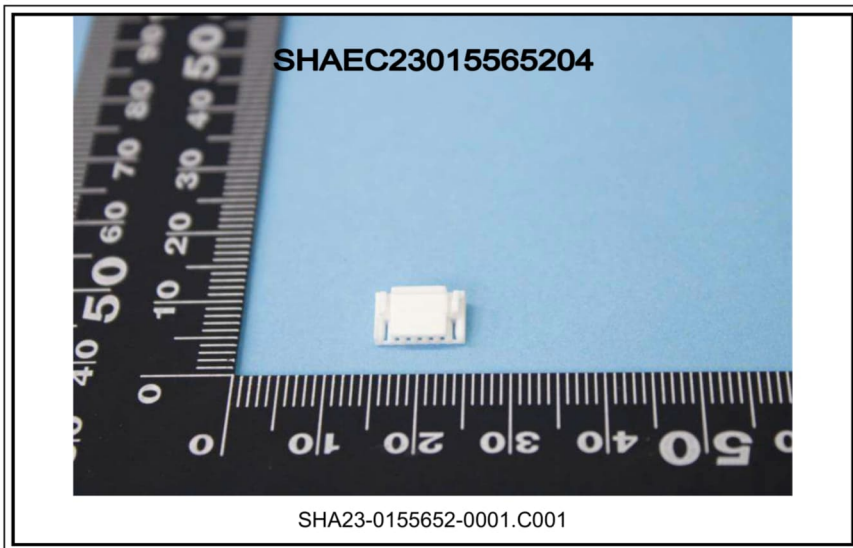
## 检测报告

编号: SHAEC23015565204

日期: 2023 年 09 月 28 日

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B76203型连接器检测报告



中国认可  
国际互认  
检测  
TESTING  
CNAS L0599

检测报告

编号: SHAEC24008425816

日期: 2024 年 05 月 07 日

第 1 页, 共 8 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: TIC1020240424174615KLN9  
样品接收时间: 2024 年 04 月 26 日  
检测周期: 2024 年 04 月 26 日 ~ 2024 年 05 月 07 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<br>价格 | 符合 |

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批准签署人



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检测报告 编号: SHAEC24008425816 日期: 2024 年 05 月 07 日 第 2 页, 共 8 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  | A3   | SHA24-0084258-0001.C003 | 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/AAS 和 UV-Vis 进行分析。

| 检测项目          | 限值   | 单位     | MDL  | A3 |
|---------------|------|--------|------|----|
| 铅 (Pb)        | 1000 | mg/kg  | 2    | 37 |
| 汞 (Hg)        | 1000 | mg/kg  | 2    | ND |
| 镉 (Cd)        | 100  | 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检测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。



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检测报告

编号: SHAEC24008425816

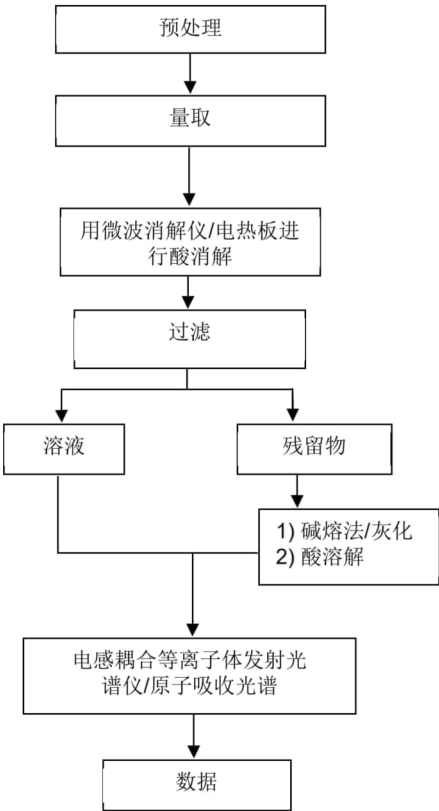
日期: 2024 年 05 月 07 日

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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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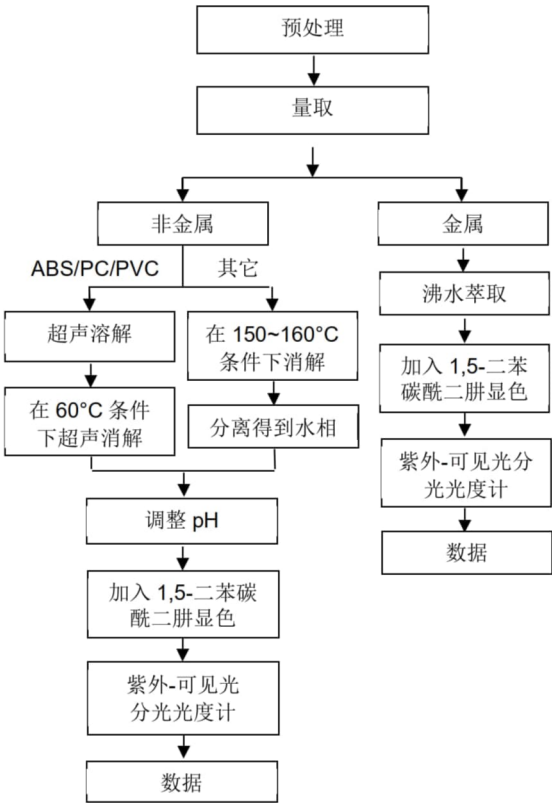
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检测报告  
附件

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六价铬检测流程图



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## 检测报告

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## 检测报告

编号: SHAEC24008425816

日期: 2024 年 05 月 07 日

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C1501 C1502 C1503 C1504 C1505 C1506 C1507 C1508 C1509  
C2001 C2002 C2003 C2004 C2005 C2006 C2007 C2008 C2009  
C2501 C2502 C2503 C2504 C2505 C2506 C2507 C2508 C2509  
C25010 C25011 C25012 C25013 C25014 C25015 C25016 C25017 C25018  
C2541 C2542 C2543 C2544 C2545 C2546 C2547 C2548 C2549  
C3001 C3002 C3003 C3004 C3005 C3006 C3007 C3008 C3009  
C3501 C3502 C3503 C3504 C3505 C3506 C3507 C3508 C3509  
C3681 C3682 C3683 C3684 C3685 C3686 C3687 C3688 C3689  
C3961 C3962 C3963 C3964 C3965 C3966 C3967 C3968 C3969  
C4001 C4002 C4003 C4004 C4005 C4006 C4007 C4008 C4009  
C4141 C4142 C4143 C4144 C4145 C4146 C4147 C4148 C4149  
C4201 C4202 C4203 C4204 C4205 C4206 C4207 C4208 C4209  
C4501 C4502 C4503 C4504 C4505 C4506 C4507 C4508 C4509  
C5001 C5002 C5003 C5004 C5005 C5006 C5007 C5008 C5009  
C6201 C6202 C6203 C6204 C6205 C6206 C6207 C6208 C6209  
C6351 C6352 C6353 C6354 C6355 C6356 C6357 C6358 C6359  
D2801 D2802 D2803 D2804 D2805 D2806 D2807 D2808 D2809  
D4801 D4802 D4803 D4804 D4805 D4806 D4807 D4808 D4809  
D5201 D5202 D5203 D5204 D5205 D5206 D5207 D5208 D5209  
D6301 D6302 D6303 D6304 D6305 D6306 D6307 D6308 D6309  
D6201 D6202 D6203 D6204 D6205 D6206 D6207 D6208 D6209  
D7001 D7002 D7003 D7004 D7005 D7006 D7007 D7008 D7009  
F0501 F0502 F0503 F0504 F0505 F0506 F0507 F0508 F0509  
F05010 F05011 F05012 F05013 F05014 F05015 F05016 F05017 F05018  
F1001 F1002 F1003 F1004 F1005 F1006 F1007 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



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检测报告

编号：SHAEC24008425816

日期：2024 年 05 月 07 日

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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  
B10901 B13601 C6001 C6002 C6003 C6004 A20010 A20011 P0028  
P0029 P0030 P0031 B11001 C2201 C2202 C4101 C6701 C6702  
D630J D700G A20012 P0032 B4001 A0801 A1271 A1803  
A10001 A4141 A7501 A7502 A3501 A1201 A4001 A6351 B14501  
A20013 A1202 D2501 A1801 A1802

上海  
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2024/5/7



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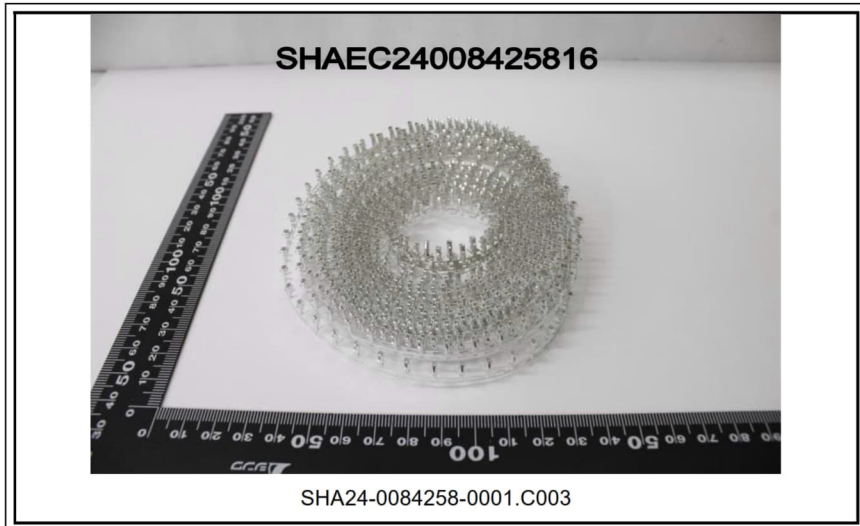
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## 物質安全資料表

## 一、物品與廠商資料

|                                                         |
|---------------------------------------------------------|
| 物品名稱：CCP PBT 複合材料                                       |
| 其他名稱：1000, 2000, 3000, 4000, 5000, 6000, 7000, 8000系列   |
| 建議用途及限制使用：                                              |
| 製造商或供應商名稱、地址及電話：長春人造樹脂廠股份有限公司/台北市松江路301號7樓/(02)25001800 |
| 緊急聯絡電話/傳真電話：(07)3711301/(07)3710819                     |

## 二、危害辨識資料

|           |
|-----------|
| 物品危害分類：NA |
| 標示內容：NA   |
| 象徵符號：     |
| 警 示 語：    |
| 危害警告訊息：無  |
| 危害防範措施：無  |
| 其他危害：     |

## 三、成分辨識資料

| 混合物                        |                |
|----------------------------|----------------|
| 化學性質                       |                |
| 危害物質成分之中英文名稱               | 濃度或濃度範圍（成分百分比） |
| Polybutylene Terephthalate | 40~99          |
| Glass Fiber                | 10~50          |
| Additives                  | 0.4~40         |

## 四、急救措施

|                                                                      |
|----------------------------------------------------------------------|
| 不同暴露途徑之急救方法：                                                         |
| • 吸入：當吸入加熱所產生之氣體時，應立即移至通風良好之處，如有必要則送醫治療。                             |
| • 皮膚接觸：若被高溫的液體產物濺到皮膚，應立即沖水，冷卻後變硬之固體不可從傷處任意移走，經一段時間後會自行脫落，若情況危急應送醫治療。 |
| • 眼睛接觸：若被高溫的液體產物濺到眼睛，立即送醫並以大量的冷水沖洗。                                  |
| • 食入：無                                                               |
| 最重要症狀及危害效應：無                                                         |
| 對急救人員之防護：無                                                           |
| 對醫師之提示：無                                                             |

## 五、滅火措施

|                      |
|----------------------|
| 適用滅火劑：水、乾粉、泡沫、二氧化碳   |
| 滅火時可能遭遇之特殊危害：無       |
| 特殊滅火程序：依B級火災處理       |
| 消防人員之特殊防護設備：穿著個人防護裝備 |

## 六、洩漏處理方法

|                      |
|----------------------|
| 個人應注意事項：處理時應穿著個人防護裝備 |
| 環境注意事項：包裝袋洩露會造成環境污染  |

清理方法：直接以掃帚清理作為回收料使用

#### 七、安全處置與儲存方法

處置：作業時配戴防護手套,及防塵口罩,避免粉塵由口鼻吸入

儲存：應存放於乾燥及通風良好之處

#### 八、暴露預防措施

工程控制：ND

| 控制參數                       |                         |                       |      |
|----------------------------|-------------------------|-----------------------|------|
| 八小時日時量平均<br>容許濃度<br>TWA    | 短時間時量平均<br>容許濃度<br>STEL | 最高容許<br>濃度<br>CEILING | 生物指標 |
| 依無毒粉塵標準<br>8HR 容許量 10mg/m3 |                         |                       | ND   |
| 個人防護設備：                    |                         |                       |      |
| • 呼吸防護：防粉塵用防護面罩            |                         |                       |      |
| • 手部防護：隔熱手套                |                         |                       |      |
| • 眼睛防護：安全防護鏡               |                         |                       |      |
| • 皮膚及身體防護：長袖工作服及安全鞋        |                         |                       |      |
| 衛生措施：工作後應徹底洗淨雙手            |                         |                       |      |

#### 九、物理及化學性質

|                      |              |
|----------------------|--------------|
| 外觀：固體                | 氣味：無臭        |
| 嗅覺閾值：                | 熔點：225℃      |
| Ph值：ND               | 沸點/沸點範圍：>350 |
| 易燃性(固體,氣體)：          | 閃火點：>355℃    |
| 分解溫度：>300℃           | 測試方法：        |
| 自燃溫度：>420℃           | 爆炸界限：無可獲得的數據 |
| 蒸氣壓：ND               | 蒸氣密度：ND      |
| 密度：1.3-1.7           | 溶解度：不溶於水     |
| 辛醇／水分配係數(log Kow)：ND | 揮發速率：ND      |

#### 十、安定性及反應性

安定性：安定

特殊狀況下可能之危害反應：粉塵危害

應避免之狀況：加熱至300℃以上

應避免之物質：強鹼,強氧化劑

危害分解物：ND

#### 十一、毒性資料

暴露途徑：無

症狀：無

急毒性：無

慢毒性或長期毒性：無

#### 十二、生態資料

生態毒性：NA

持久性及降解性：持久性



|            |
|------------|
| 生物蓄積性：NA   |
| 土壤中之流動性：NA |
| 其他不良效應：NA  |

## 十三、廢棄處置方法

|                                |
|--------------------------------|
| 廢棄處置方法：PBT複合材料料頭外售,交由回收料廠商粉碎回收 |
|--------------------------------|

## 十四、運送資料

|                        |
|------------------------|
| 聯合國編號：Not regulated    |
| 聯合國運輸名稱：Not regulated  |
| 運輸危害分類：Not regulated   |
| 包裝類別：SEA BULK,太空包,紙袋   |
| 海洋污染物（是／否）：否           |
| 特殊運送方法及注意事項：運送過程保持貨品乾燥 |

## 十五、法規資料

|                    |
|--------------------|
| 適用法規：Not regulated |
|--------------------|

## 十六、其他資料

|      |                                    |                             |  |
|------|------------------------------------|-----------------------------|--|
| 參考文獻 |                                    |                             |  |
| 製表單位 | 名稱：長春人造樹脂廠股份有限公司高雄廠                |                             |  |
|      | 地址/電話：高雄縣仁武鄉仁武村工業一路14號/(07)3711301 |                             |  |
| 製表人  | 職稱：副課長                             | 姓名：吳福利                      |  |
| 製表日期 | 2008/09/16 04:35:39 PM             | 修改日期：2008/09/16 04:35:39 PM |  |
| 備註   |                                    |                             |  |

|                                     |                         |                          |
|-------------------------------------|-------------------------|--------------------------|
| 编号：LHE-S006                         |                         |                          |
| 成品 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：LHE-WF1001         |                          |
|                                     | 物品名称：黄铜镀锡针              |                          |
| 地址：浙江省温州乐清市乐清湾港区创新路8号               | 纯物质：                    |                          |
| 联络电话：0577-62383699                  | 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               | 64.9%                    |
| 磷(P)                                | 7723-14-0               | 0.001%                   |
| 锌(Zn)                               | 7440-66-6               | 余量                       |
| 镍(Ni)                               | 7440-02-0               | 0.01%                    |
| 锑(Sb)                               | 7440-36-0               | 0.001%                   |
| 铅(Pb)                               | 7439-92-1               | <0.009%                  |
| 铁(Fe)                               | 7439-89-6               | <0.1%                    |
| 纯镍(Ni)                              | 7440-02-0               | 0.05%                    |
| 纯锡(Sn)                              | 7440-31-5               | 0.1%                     |
| 2. 危害辨认资料                           |                         |                          |
| 严重危害效应                              | 健康危害效应：本产品于固体时不具健康危害及危害 |                          |
|                                     | 环境影响：本产品于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 劳工工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<br>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                        |
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