



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: \_\_\_\_\_ C4507端子

料号 CUSERTOMER PART NO: \_\_\_\_\_ C4507

### 客户确认 APPROVED SIGNATURES

核准 APPROVAL: \_\_\_\_\_

日期 DATE: \_\_\_\_\_

工程 ENGINEERING: \_\_\_\_\_

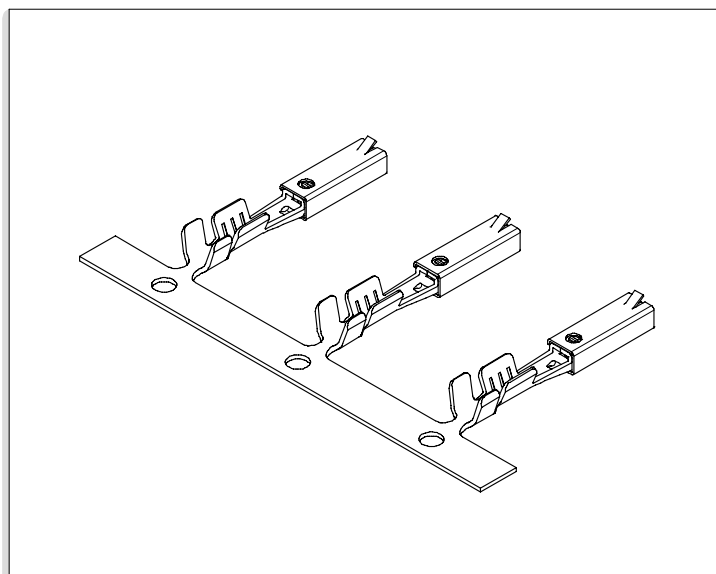
日期 DATE: \_\_\_\_\_

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. 额定电流 Current rating: 25A AC,DC
3. 额定电压 Voltage rating: / 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 /  $\leq 10\text{m}\Omega$   
环境测试后 After environmental testing /  $\leq 20\text{m}\Omega$
6. 绝缘电阻 Insulation resistance: /
7. 耐电压 Withstanding voltage: / AC/minute
8. 适用线规 Applicable wire: AWG #20 to #14
9. 适用基板厚度 Applicable PC board thickness: /



目录(COVER) 1

料号说明(DESCRIPTION OF ITEM NUMBER) 2

图纸(DRAWING) 5

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制订 Edit: 吴晓金

日期 DATE: 2023-09-21

审核 Check: 陈浙海

日期 DATE: 2023-09-21

批准 Approval: 季育文

日期 DATE: 2023-09-21

-SHB 02 X2-N\*-\*-\*\*-\*\*-\*\*-\*\*

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

-DHWVB 02 X2 -N\*-C\*-\*\*-\*\*-\*-\*\*-\*\*-\*\*-\*\*-\*\*

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

# C4507端子料号说明 Description of item number

## 端子料号说明 TERMINAL

C 4507 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=镀镍镉光锡 Matt Tin-Nickel Plating  
4=镀铅锡 Tin-Lead Plating  
5=镀铜锡 Tin-Cu Plating  
6=镀镍银 Silver-Nickel Plating  
7=镀镍金 Gold-Nickel Plating  
8=镀镍局部金 Nickel-Gold  
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

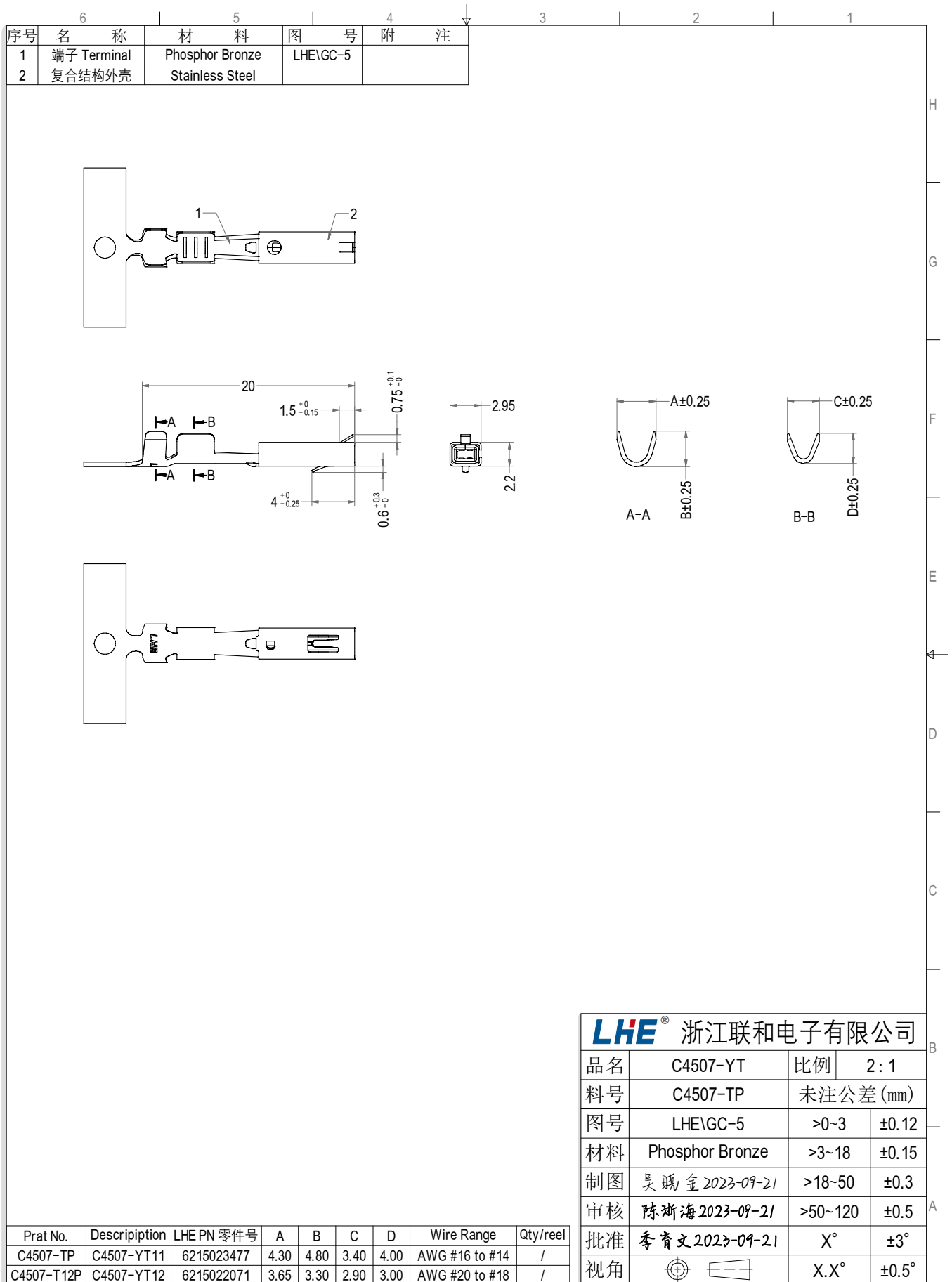
P 0001 - B

P: Other Types

产品序号 Product Number

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

## C4507端子承认书图面



## C4507端子型号说明

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5 | 4 | 3 | 2 | 1 |
| <div><div>Prat No.</div><div>Description</div><div>APTIV</div></div> <div><div>C4507-TP2</div><div>C4507-YT11磷铜先镀</div><div>12147303</div></div> <div><div>C4507-T12P2</div><div>C4507-YT12磷铜先镀</div><div>12147303</div></div> <div><div>/</div><div>/</div><div>10724472</div></div> <div><div>/</div><div>/</div><div>/</div></div> <div><div>/</div><div>/</div><div>/</div></div> <div><div>/</div><div>/</div><div>/</div></div> <div><div>/</div><div>/</div><div>/</div></div> <div><div>/</div><div>/</div><div>/</div></div> <div><div>/</div><div>/</div><div>/</div></div> <div><div>/</div><div>/</div><div>/</div></div> <div><div>/</div><div>/</div><div>/</div></div> <div><div>/</div><div>/</div><div>/</div></div> <div><div>/</div><div>/</div><div>/</div></div> <div><div>/</div><div>/</div><div>/</div></div> <div><div>/</div><div>/</div><div>/</div></div> |   |   |   |   |   |
| <div><div>LHE® 浙江联和电子有限公司</div><div><div>品名</div><div>C4507-YT型号说明</div><div>比例</div><div></div></div><div><div>料号</div><div>C4507-TP型号说明</div><div>未注公差 (mm)</div><div></div></div><div><div>图号</div><div>LHE\GC-6</div><div>&gt;0~3</div><div>±0.12</div></div><div><div>材料</div><div>/</div><div>&gt;3~18</div><div>±0.15</div></div><div><div>制图</div><div>吴晓金 2023-09-21</div><div>&gt;18~50</div><div>±0.3</div></div><div><div>审核</div><div>陈浙海 2023-09-21</div><div>&gt;50~120</div><div>±0.5</div></div><div><div>批准</div><div>季育文 2023-09-21</div><div>X°</div><div>±3°</div></div><div><div>视角</div><div> </div><div>X.X°</div><div>±0.5°</div></div></div>                                      |   |   |   |   |   |

# B35E0弹片端子产品性能测试 PERFORMANCE TEST



| 项目 Item                                         | 测试条件 Test Condition                                                                                                                                                                                                                                                                                                                                                                 | 规格要求 Requirement                                                      |                  |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------|
| 1. 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; 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.                                                                                                                                                                                                                            | /                                                                     | /                |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                     | /                                                                     | /                |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                     | /                                                                     | /                |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                     | /                                                                     | /                |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                     | /                                                                     | /                |
| 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; 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.                                                                                                                                                                                                                                | /                                                                     |                  |
| 3. 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; 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.                                                                                                                                                                                                                         | /                                                                     |                  |
| 4. 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 $245^{\circ}\text{C}\pm 5^{\circ}\text{C}$ ) $2\pm 0.5$ 秒钟。<br>Soldering time: $2\pm 0.5$ sec Solder Temperature: $245^{\circ}\text{C}\pm 5^{\circ}\text{C}$                                                                                                                                                                                               | 上锡率 $\geq 90\%$<br>90% of immersed area must show no voids, pin holes |                  |
| 5. 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 $260^{\circ}\text{C}$ ); $2\pm 0.5$ 秒钟后, 在正常的条件下恢复1小时。<br>Soldering time: $2\pm 0.5$ sec Solder Temperature: $260^{\circ}\text{C}$                                                                                                                                                                                                                          | 外观<br>Appearance                                                      | 无损伤<br>No Damage |
| 6. 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 $+105^{\circ}\text{C}\pm 2^{\circ}\text{C}$ for 96 hours.                                                                                                                                                                                   | 外观<br>Appearance                                                      | 无损伤<br>No Damage |
| 7. 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 $-25^{\circ}\text{C}\pm 2^{\circ}\text{C}$ for 96 hours.                                                                                                                                                                                     | 接触电阻<br>Contact Resistance<br>LLCR                                    | /                |
| 8. 温度上升<br>Temperature Rise                     | 插入连接器, 通以最大允许电流。<br>Carrying rated current load.                                                                                                                                                                                                                                                                                                                                    | 温度最大上升<br>Temperature Rise                                            | /                |
| 9. 恒定湿热<br>Humidity                             | 温度 Temperature: $40\pm 2^{\circ}\text{C}$<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                                                                                                                                                                                                                                                                      | 外观<br>Appearance                                                      | 无损伤<br>No Damage |
| 10. 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 $-25^{\circ}\text{C}\pm 2^{\circ}\text{C}$ 的恒温条件下放置0.5小时;<br>b) 在 $+105^{\circ}\text{C}\pm 2^{\circ}\text{C}$ 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) $-25^{\circ}\text{C}\pm 2^{\circ}\text{C}$ 0.5hour b) $+105^{\circ}\text{C}\pm 2^{\circ}\text{C}$ 0.5hour | 耐电压<br>Dielectric Strength                                            | /                |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                     | 绝缘电阻<br>Insulation Resistance                                         | /                |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                     | 接触电阻<br>Contact Resistance<br>LLCR                                    | /                |
| 11. 机械寿命<br>Repeated 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 per minute.                                                                                                                                                                                                                                                                                  | 接触电阻<br>Contact Resistance<br>LLCR                                    | /                |
| 12. 机械振动<br>Vibration                           | 插入连接器, 串联在一直流电源上, 电流100mA; 并模拟正常工作状态, 振频为10~55Hz、振幅1.5mm; 每一轴线扫频循环次数10次、2小时。<br>Frequency: 10~55Hz Amplitude: $\pm 1.5\text{mm}$<br>Duration: 2 hours in each X,Y,Z axes                                                                                                                                                                                                            | 外观<br>Appearance                                                      | 无损伤<br>No Damage |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                     | 接触电阻<br>Contact Resistance<br>LLCR                                    | /                |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                     | 中断 Intermittence                                                      | /                |



# B35E0弹片端子产品性能测试 PERFORMANCE TEST



| 项目 Item                                          | 测试条件 Test Condition                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                             | 规格要求 Requirement                                                                                                                                                                           |                               |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| 13. 机械冲击<br>Shock                                | 连接器相配,沿X,Y,Z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:490m/s <sup>2</sup> 持续时间:11ms<br>Mated connectors and subject to the following shock<br>conditions,3times of shock shall be applied for each 6<br>directions along 3 mutually perpendicular axes,passing DC<br>100mA current during the test(Total of 18 shocks)Test Pulse:<br>Half Sine Peak Value:490m/s <sup>2</sup> Duration:11ms |                                                                                                                                                                                                                                                                                                                                                                                                                             | 外观<br>Appearance                                                                                                                                                                           | 无损伤<br>No Damage              |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                             | 接触电阻<br>Contact Resistance<br>LLCR                                                                                                                                                         | /                             |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                             | 中断 Intermittence                                                                                                                                                                           | /                             |
| 14. 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                                                                                                                                                                                                                                                                                                                 | 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<br>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,<br>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<br>words and mark is acceptable. |                                                                                                                                                                                            |                               |
| 15. 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16小时, 试验后用流动的蒸馏水轻轻洗去表面沉积物。在常温常驻湿条件下恢复1~2小时。<br>16 hour exposure to a saltspray from the 5%±1 solution.                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                             | 外观无损伤(五金件应无露出底金属的严重锈蚀; 使用预镀的型材, 其落料面允许有不影响其性能的轻微腐蚀。)<br>Appearance:No Damage(No erosion with material exposed.And with plating material, slight erosion on the cutting surface acceptable) |                               |
| 16. 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.                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                             | /                                                                                                                                                                                          |                               |
| 17. 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.                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                             | /                                                                                                                                                                                          |                               |
| 18. 耐电压<br>Dielectric Strength                   | 相邻接触件之间或地线之间施加50Hz / AC(有效值), 漏电流1mA的电压作用, 时间1min。<br>Mate connectors, apply / AC for 1 minute between adjacent terminal or ground.                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                             | 无击穿和飞弧现象<br>No Breakdown                                                                                                                                                                   |                               |
| 19. 插入力与拔出力<br>Insertion and<br>Withdrawal Force | 单PIN相配的接触器<br>以1mm/s~5mm/s的<br>速度沿接插器轴线<br>方向插入和拔出。<br>Insertion and withdraw<br>single contact at the<br>speed rate of 1mm/s~5mm/s.<br><br>相配的连接器的以1mm/s~5mm/s的速度沿接插器轴线方向<br>插入和拔出。<br>Insertion and withdraw connectors at the speed rate of<br>1mm/s~5mm/s.                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                             | 极数<br>Poles                                                                                                                                                                                | 插入力(最大值N)<br>Insertion(N Max) |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                             | 1st                                                                                                                                                                                        | 1st                           |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                             | 1                                                                                                                                                                                          | /                             |

\* 先冲后镀为定制端子。常规端子为先镀后冲, 无法通过盐雾试验。

制订 Edit: 吴晓金 日期 DATE: 2023-09-21

审核 Check: 李育文 日期 DATE: 2023-09-21

批准 Approval: 陈浙海 日期 DATE: 2023-09-21