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|--------------------------------------|--|--|--------------------|-----------|---------------------|
| <b>Product Specification</b> (产品规格书) | <b>Issued By:</b><br>Engineering Dept.                                     |  |                    |           |                     |
|                                      | <b>Subject (主题):</b><br>2.50mm Pitch KR2508 Series Connector Specification | <table border="1"> <tr> <td><b>Date Issued</b></td> <td>2022/2/26</td> </tr> <tr> <td><b>Date Revised</b></td> <td>2022/2/26</td> </tr> </table> | <b>Date Issued</b> | 2022/2/26 | <b>Date Revised</b> |
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**1.0 适用范围 (Scope)**

此种规格包括2.50mm Pitch KR2508 Series 连接器规格说明。

This Specification Covers the 2.50mm Pitch KR2508 Series Connector Specification.

**2.0 规格与料号 (Spec and Part number)**

| 规格内容<br><b>Specification</b> | 产品料号<br><b>Production No.</b>    | 产品图示<br><b>Picture of Product</b> |
|------------------------------|----------------------------------|-----------------------------------|
| 胶壳/Housing                   | H2508V***0101B<br>H2508R***0101B |                                   |
| 端子/Terminal                  | T2508VBT0101C<br>T2508RPT0101C   |                                   |
| 针座/Wafer                     | None                             |                                   |

**3.0 材质与表面处理 (Disposal of Material and surface)**

| 规格内容<br><b>Specification</b> |                   | 材质<br><b>Materials</b>   | 表面处理<br><b>Disposal of Surface</b> |
|------------------------------|-------------------|--------------------------|------------------------------------|
| 胶壳/Housing                   |                   | PA66                     | UL94 V-0                           |
| 端子/Terminal                  |                   | Phosphor bronze or Brass | Tin plated over nickel             |
| 针座/<br>Wafer                 | 立式<br>Straight    | 主体<br>Base               | N/A                                |
|                              |                   | 导体<br>Contact            | N/A                                |
|                              |                   | 固定片<br>Solder tab        | N/A                                |
|                              | 卧式<br>Right Angle | 主体<br>Base               | N/A                                |
|                              |                   | 导体<br>Contact            | N/A                                |
|                              |                   | 固定片<br>Solder tab        | N/A                                |

(以上参数请以工程图为准/Please Refer to the Project drawing for the above Specification)

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**4.0 额定等级 (Ratings and applicable wires)**

| 项 目<br>Item                        | 规 格<br>Standard                               |       |
|------------------------------------|---|-------|
| 额定电压Rated Voltage (Max.)           | 250V  | AC/DC |
| 额定电流Rated Current (Max.)           | 3A(24AWG)                                     |       |
| 使用温度范围Ambient temperature Range    | -40°C~+105°C                                  |       |
| 适用线径Applicable wire insulation O.D | AWG 24# ~ 28#<br>Insulation O.D. 1.60mm(Max.) |       |

**5.0 电气性能 (Electrical Performance)**

| 项 目<br>Item |                               | 条 件<br>Test Condition  | 规 格<br>Requirement                      |
|-------------|-------------------------------|--|---|
| 5.1         | 接触阻抗<br>Contact Resistance    | 公母配合,开放电压 20mV 最大,电流 100mA最大 检测连接器 A~B 区.<br>Mate connectors, measure by dry circuit, 20mV MAX, 100mA MAX.<br>(Based upon EIA-364-23C)   | 10 milliohms Max.                       |
| 5.2         | 绝缘阻抗<br>Insulation Resistance | 公母配合 ,对相邻两接触导体,于1分钟内施加 500V 的直流电,并量测其间绝缘阻抗.<br>Mate connectors, apply 500V DC for 1 minute between adjacent contacts to measure the insulation resistance.<br>(Based upon EIA-364-21B) | 1000 Megohms Min.                       |
| 5.3         | 耐电压<br>Dielectric Strength    | 在相邻端子或 端子与接地端之间, 使用 800V 的交流电 1 分钟,检测连接器.<br>Apply 800V AC for 1 minute between adjacent terminal or ground.<br>(Based upon EIA-364-20A)   | 无损毁或出现电火花<br>No Breakdown and Flashover |

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**6.0 机械性能 (Mechanical Performance)**

| 项 目<br><b>Item</b>              |   | 条 件<br><b>Test Condition</b>  |              | 规 格<br><b>Requirement</b> |           |           |
|---------------------------------|---|---|--------------|---------------------------|-----------|-----------|
| 6.1                             | 端子插入力<br>Terminal Insertion Force                       | 铆线后之端子插入Housing所需最大力量.<br>Insert the crimped terminal into the housing.   |              | 1.0 kgf (9.8 N) Max.      |           |           |
| 6.2                             | 端子保持力<br>Terminal/Housing Retention Force               | 以每分钟25.4±3mm的速率,将端子从Housing内轴向拔出的力量.<br>Apply axial pull out force at the speed rate of 25.4±3mm/minute on the terminal assembled in the housing. |              | 1.5 kgf (14.7 N) Min.     |           |           |
| 6.3                             | 端子压接<br>Terminal Crimping Specification (90° Terminal)  | Wire Size   | 24 AWG       | 26 AWG                    | 28 AWG    |           |
|                                 |   | ①   | Crimp width  | 1.50±0.10                 |           |           |
|                                 |   |   | Crimp height | 0.75±0.05                 | 0.68±0.05 | 0.60±0.05 |
|                                 |   | ②   | Crimp width  | 1.80 Max.                 |           |           |
|                                 |   |   | Crimp height | 1.50±0.10                 | 1.45±0.10 | 1.40±0.10 |
|                                 |   | Crimp strength (kgf)  | 3.63 Min.    | 2.27 Min.                 | 1.36 Min. |           |
|                                 |   | Stripping (mm)  | 1.3~1.8      |                           |           |           |
| ①Conductor(mm) ②Insulation(mm)  |   |   |              |                           |           |           |
| 6.4                             | 端子压接<br>Terminal Crimping Specification (180° Terminal) | Wire Size   | 24 AWG       | 26 AWG                    | 28 AWG    |           |
|                                 |   | ①   | Crimp width  | 1.50±0.10                 |           |           |
|                                 |   |   | Crimp height | 0.72±0.05                 | 0.65±0.05 | 0.62±0.05 |
|                                 |   | ②   | Crimp width  | 1.80 Max.                 |           |           |
|                                 |   |   | Crimp height | 1.55 Max.                 | 1.50 Max. | 1.40 Max. |
|                                 |   | Crimp strength (kgf)  | 3.63 Min.    | 2.27 Min.                 | 1.36 Min. |           |
|                                 |   | Stripping (mm)  | 1.7~2.5      |                           |           |           |
| ① Conductor(mm) ②Insulation(mm) |   |   |              |                           |           |           |

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**7.0 环境性能及其它 (Environmental Performance and Others)**

| 项 目<br>Item |                          | 条 件<br>Test Condition  | 规 格<br>Requirement         |                     |
|-------------|--------------------------|--|----------------------------|---------------------|
| 7.1         | 温升测试<br>Temperature Rise | 公母对插后,在通过额定电流下,所测定的温度.<br>Carrying rated current load.<br>(Based upon EIA-364-70B)   | 温升测试<br>Temperature Rise   | 30°C Max.           |
| 7.32        | 耐振动性<br>Vibration        | 振幅: 1.5mm P-P<br>时间: 10~55~10 HZ in 1 minute<br>持续时间: 每轴向 2 小时<br>Amplitude: 1.5mm P-P<br>Sweep time: 10~55~10 HZ in 1 minute<br>Duration: 2 hours in each X.Y.Z axials.<br>(Based upon EIA-364-28B) | 外观<br>Appearance           | 无异状<br>No Damage    |
|             |                          |  | 接触阻抗<br>Contact Resistance | 20 milliohms Max.   |
|             |                          |  | 瞬断<br>Discontinuity        | 1 micro-second Max. |
| 7.3         | 耐冲击性<br>Shock            | 在 X.Y.Z 上 6 个方向上,以<br>490m/s <sup>2</sup> (50g) 冲击下各 3 回.<br>490m/s <sup>2</sup> {50g}, 3strokes in each X.Y.Z. axes.<br>(Based upon EIA-364-27B)  | 外观<br>Appearance           | 无异状<br>No Damage    |
|             |                          |  | 接触阻抗<br>Contact Resistance | 20 milliohms Max.   |
|             |                          |  | 瞬断<br>Discontinuity        | 1 micro-second Max. |
| 7.4         | 耐热性<br>Heat Resistance   | 105±2°C,96 hours.<br>(Based upon EIA-364-17B)  | 外观<br>Appearance           | 无异状<br>No Damage    |
|             |                          |  | 接触阻抗<br>Contact Resistance | 20 milliohms Max.   |
| 7.5         | 耐寒性<br>Cold Resistance   | -40±2°C,96 hours.<br>( Based upon EIA-364-59)  | 外观<br>Appearance           | 无异状<br>No Damage    |
|             |                          |  | 接触阻抗<br>Contact Resistance | 20 milliohms Max.   |

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|-------------|-------------------------|--|-------------------------------|---|
| 7.7         | 耐湿性<br>Humidity         | 温度: 40±2°C<br>湿度: 90~95%(RH)<br>持续时间: 96 hours<br>Temperature: 40±2°C<br>Relative Humidity: 90~95%<br>Duration: 96 hours<br>(Based upon EIA-364-31B)   | 外观<br>Appearance              | 无异状<br>No Damage  |
|             |                         |  | 接触阻抗<br>Contact Resistance    | 40 milliohms<br>Max.  |
|             |                         |  | 耐电压<br>Dielectric Strength    | Must meet 5.3   |
|             |                         |  | 绝缘阻抗<br>Insulation Resistance | 100 Megohms<br>Min.   |
| 7.8         | 热冲击<br>Thermal shock    | 以-40°C持续30分钟经室温5分钟,而后以105°C持续30分钟再经室温5分钟为一个循环,共循环5次.<br>One Cycle Consists Of:<br>-40°C for 30 minutes.<br>→ Room Temp. 5 minutes,<br>+105°C for 30minutes.<br>→ Room Temp. 5 minutes<br>Total Cycles: 5 Cycles.<br>(Based upon EIA-364-32B) | 外观<br>Appearance              | 无异状<br>No Damage  |
|             |                         |  | 接触阻抗<br>Contact Resistance    | 40 milliohms<br>Max.  |
| 7.9         | 盐水喷雾<br>Salt Spray      | 在温度35±2°C,盐水浓度5±1%下,盐水喷雾16小时.<br>16 hours exposure to a salt spray from the 5±1% solution at 35±2°C.<br>(Based upon EIA-364-26B)   | 外观<br>Appearance              | 无异状<br>No Damage  |
|             |                         |  | 接触阻抗<br>Contact Resistance    | 40 milliohms<br>Max.  |
| 7.10        | 焊锡附着性<br>Solder-ability | 焊接时间: 3±0.5 秒.<br>焊接温度: 245±5°C.<br>Soldering Time: 3±0.5 second.<br>Solder Temperature: 245±5°C.<br>(Based upon EIA-364-52)   | Solder Wetting                | 浸渍面积需95%以上<br>95% of immersed area must show no voids, pin holes. |

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|--------------------|----------------------------|---|---------------------------|------------------|
| 7.10               | 焊锡耐热性<br>Solder-Resistance | 端子前端浸入250°C Max.的锡槽中；<br>历时3~5 秒。<br>Soldering Time: 3~5 sec.<br>Solder Temperature: 250°C Max.<br>0.8 mm from terminal tip<br>(Based upon EIA-364-71B) | 外观<br>Appearance          | 无异状<br>No Damage |

**8.0 备注 (Remark)**

Any change or revision for the product specification will not be announced in advance.

Please contact our sales representative for the latest information.

有关规格书内容经变更或改版，如未能及时发布与通知，烦请联系我司业务人员提供产品最新资讯

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