深圳市硕凌电子科技有限公司
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# 产品规格书
# PRODUCT SPECIFICATION

(The document is for reference only. We reserve the right to update it at any time without prior notice. Please contact the business department for the latest standards.)

## 1.0 适用范围/SCOPES：

本规范涵盖了 2.0mm 间距排母系列产品的性能要求。

This specification including the performance requirements of the 2.0mm pitch Female Header product series.

## 2.0 产品描述/PRODUCT DESCRIPTION：

| 品 名/Production name | 组件/Component | 材 质/ Materials |
|---|---|---|
| 排母/ Female Header | 胶壳/Housing | LCP |
| | 端子/Terminal | 黄铜 |

## 3.0 额定等级/RATINGS：

| 项目/Item | 规格/Standard | |
|---|---|---|
| 额定电压/Rated Voltage (Max.) | 200V | AC/DC |
| 额定电流/Rated Current (Max.) | 1.5A | |
| 工作温度/Operating Temperature: | -40℃ ～ +105℃ | |

## 4.0 性能/PERFORMANCE

4.1 电气性能/Electrical Performance :

| 测试项目 Test Items | | 测试条件 Test Condition | 要求 Requirement |
|---|---|---|---|
| 4.1.1 | 接触电阻 Contact Resistance | 配合连接器：应用为 20mV 的最大电压和 100mA 的电流<br>Mate connectors: apply a maximum voltage of 20mV and a current of 100mA<br>EIA-364-23 | 1.初始值：20mΩ最大。<br>2.最终值：30mΩ最大。<br>1. Initial value:20 mÙ max.<br>2. Final value: 30 mÙ max. |
| 4.1.2 | 绝缘阻抗 Insulation Resistance | 配合连接器:适用于相邻的端子和端子到地片之间，使用 500V 直流电压测试。<br>Mate connectors,apply a voltage of 500 VDC between adjacent terminals and between terminals to ground.<br>EIA 364-21 | 1000MÙ 最小<br>1000 Megohms Min. |
| 4.1.3 | 耐电压 Dielectric Withstanding Voltage | 配合连接器:在相邻端子,端子与地片之间,使用 500V 的交流电 1 分钟,检测连接器.<br>Mate connectors, apply 500V AC for 1 minutebetween adjacent terminal or ground.<br>EIA 364-20 | 无击穿<br>No breakdown |

4.2 机械性能/ Electrical Performance :

| 测试项目 Test Items | | 测试条件 Test Condition | 要求 Requirement |
|---|---|---|---|
| 4.2.1 | 端子保持力 Terminal Retention Force | 以每分钟 25±3mm 的速率，将端子从胶体中向外拔出的力量.<br>Apply axial pull out force at the speed rate of 25±3mm/minute on the terminal assembled in the housing.<br>EIA 364-29 | 0.50Kg/Pin(Min) |
| 4.2.2 | 耐久性 Durability | 公母连接器以最大每小时300次的速率循环插拔，测试次数：200次最小，<br>Mate and Unmating connector (male to female) at maximum rate of 300 cycles per hour. Test Cycles : 200 cycles Min<br>EIA 364-09 | 1.无损坏<br>2.电气性能符合表格4.1.1要求。<br>1. No evidence of damage.<br>2. The electrical performances meet the spec. specified in paragraph 4.1.1 |
| 4.2.3 | 插入和拔出力 Mating and Unmating force | 以每分钟 25±3mm 的速率，对公母连接器插入和拔出，<br>Mate and Unmating connector (male to female) at a rate of 25 ± 3 mm<br>EIA 364-13 | 1.插入力：<br>最大 200g/per pin<br>2.拔出力：<br>最小 20g/per pin<br><br>1.Mating force<br>Max:200g/per pin<br><br>2.Unmating force<br>min:20g/per pin |

4.3 环境性能/Environmental Performance :

| 测试项目 Test Items | | 测试条件 Test Condition | 要求 Requirement |
|---|---|---|---|
| 4.3.1 | 温度循环 Temperature Cycling | 低温：40±3℃<br>高温：105±3℃<br>时间：30分钟<br>经过5次循环后测试，正常环境下放2小时，<br>low temerature:-40℃<br>high tempetature:105℃<br>Exposure time at : 30 minutes<br>After 5 cycles at the normal environment for testing after 2 hours<br>EIA 364-32 | 1.无损坏<br>2.电气性能符合表格4.1.1要求。<br>1. No evidence of damage.<br>2. The electrical performances meet the spec. specified in paragraph 4.1.1 |
| 4.3.2 | 盐雾测试 Salt spray | 盐水比重：5% / 温度 35±2℃<br>[试验时间：24 小时，试验结束后用清水将残留盐份清洗.<br>Salt concentration:5% /Temperature:35±2℃<br>Testing time:24hours, After salt is removed by running water.<br>EIA 364-26 | 1.无损坏<br>2.电气性能符合表格4.1.1要求。<br>1. No evidence of damage.<br>2. The electrical performances meet the spec. specified in paragraph 4.1.1 |
| 4.3.3 | 可焊性 Solderability | 端子前端浸入 245±5℃的锡槽中，<br>焊接时间：5±0.5 sec<br>Soldering Time：5±0.5 sec.<br>Soldering Temperature：245±5℃<br>EIA-364-52 | 浸锡面积需 95%以上<br>95% of immersed area must show no voids, pin holes |
| 4.3.4 | 耐焊接热 Resistance to Soldering Heat | 1．LCP 可承受 260±5℃温度通过 IR 炉，<br>2．时间：5-10 秒<br>1.LCP Canbe withstand 260+5C Temperature IR Stove.<br>2.Time: 5-10 seconds<br>EIA 364-56 | 无损坏、严重变形<br>No Damage |