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| Product Specification [产品规格书]: | Document No | PS-2022-01 |
| Subject [主题]: 2.00mm Pitch 2022 Series Connector Specification | Date Issued | 2019/06/09 |
| | Date Revised | 2018/05/26 |
| | Version | A0 |

This specification is referred to the 2.00mm series wire to board connector

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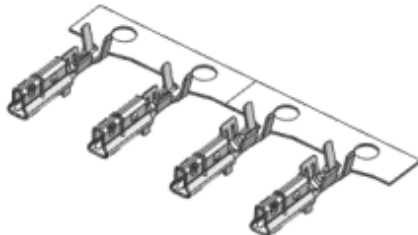
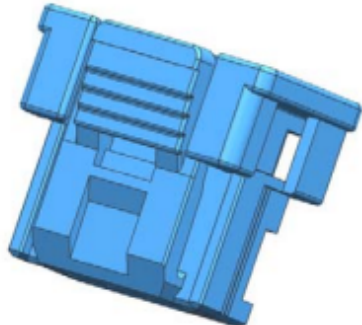
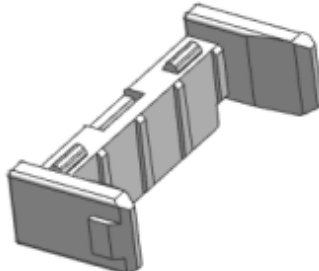
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【1.适用范围 Scope】

此种规格包括 2.00mm Pitch 2022 Series 连接器规格说明.

This Specification Covers the 2.00mm Pitch 2022Series Connector Specification.

【2.规格与料号 Spec and Part number】

| 规格内容 Specification | 产品料号 Production No. | 产品图示 Picture of Product |
|-----------------------|------------------------|---|
| 端子/Terminal | 2022TX-XSXX |  |
| 胶壳/Housing | 2022H-XX-PTXX |  |
| TPA | C2022-XX-XXXX |  |

【3.材质与表面处理 Disposal of Material and surface】

| | | |
|--------------------------|--------------------------|---------------|
| WRITTEN BY: Yangzhengguo | APPROVED BY: Lvtiansheng | Sheet: 2 of 9 |
|--------------------------|--------------------------|---------------|



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| 规格内容 Specification | 材 质 Materials | 表面处理 Disposal of Surface |
|-----------------------|--------------------|---|
| 端子/Terminal | 磷铜/Phosphor Bronze | Underplate :Ni 40~120u"(1~3um) overall; Top plating:Sn 80~200u"(2~5um) overall |
| | 镍硅铜合金/ C7025 | |
| 胶壳/Housing | PBT+GF | UL 94V-0 |
| TPA | PA4T+GF | UL 94V-0 |

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

【4. 额定等级 Ratings and applicable wires】

| 项 目【Item】 | 规 格【Standard】 | |
|-------------------------------------|--|---------|
| 额定电压 Rated Voltage (Max.) | 125V Max | [AC/DC] |
| 额定电流 Rated Current (Max.) | 3A Max | |
| 使用温度范围 Ambient temperature Range | -40℃~+125℃(C7025)/ -40℃~+105℃(Phosphor Bronze) | |
| 适用线径 Applicable wire insulation O.D | 20~22 AWG (0.35~0.5mm²) 24 ~26 AWG (0.22~0.13mm²) Insulation O.D. 1.60mm(Max.) | |

【*1. 不通电时，需满足使用温度范围

Non-operating connectors after reflow must follow the operating temperature range condition

2. 温升时包含端子

This includes the terminal temperature rise generated by conducting electricity.

3. 适用的电线也必须满足规定的温度范围

Applicable wire must also meet the specified temperature range.



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【5.性能 PERFORMANCE】

5-1. 电气的性能 Electrical Performance.

| 项 目 【Item】 | | 条 件 【Test Condition】 | 规 格 【Requirement】 |
|---------------|--|--|---|
| 5-1-1 | 接触阻抗 Contact Resistance | 公母配合,开放电压 20mV 以下,电流 10mA 检测连接器 A~B 区。 Mate connectors, measure by dry circuit, 20mV MAX, 10mA. (Based upon EIA-364-06A). | Initial: 10 milliohms Max. After Test: 20 milliohms Max. |
| 5-1-2 | 绝缘阻抗 Insulation Resistance | 公母配合,在相邻端子,端子与地片之间,使用 500V 的直流电,检测连接器。 Mate connectors, apply 500V DC between adjacent terminal or ground. (Based upon EIA-364-21B / MIL-STD-202 Method 302 Cond. B) | 1000 Megohms Min. |
| 5-1-3 | 耐电压 Dielectric Strength | 公母配合,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。 Mate connectors, apply 500V AC for 1 minute between adjacent terminal or ground. (Based upon EIA-364-20A / MIL-STD-202 Method 301) | 没有击穿和电火花 No Breakdown and Flashover |
| 5-1-4 | 铆线后端子接触阻抗 Contact resistance on crimped portion | 铆线后之端子,开放电压 20mV 以下,电流 10mA 检测连接器。 Crimp the applicable wire on to the terminal measure by dry circuit 20mV MAX, 10mA. | 5 milliohms Max. |
| 5-1-5 | 电压降 Voltage Drop | 在距离压接段75mm或100mm处,分别测量开路电压降(12±1V)和短路电压降(1±0.05A)。从总电阻中减去导线电阻。 Measure voltage drop by 12±1V of open circuit and 1±0.05A of short circuit at the 75or100mm of point from crimped section. Subtract wire conductor resistance from total resistance. | 10mV/A MAX |



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5-2. 机械的性能 Mechanical Performance.

| 项 目 【Item】 | | 条 件 【Test Condition】 | 规 格 【Requirement】 | |
|---------------|--|---|------------------------------------|----------------------------------|
| 5-2-1 | 插入力及拔出力 Insertion and Withdrawal Force | 以每分钟 25.4±3mm 的速率插入和拔出.除去锁扣 Insert and withdraw connectors at the speed rate of 25±3mm/minute. However, it is measured without HSG lock | 参照第 6 项 Refer to paragraph 6 | |
| 5-2-2 | 端子压着强度 Crimping Pull Out Force | 固定铆线后的端子,使电线与端子分离时所需的最小力量,(绝缘铆爪打开). Fix the crimped terminal, apply axial pull out force on the wire. (Measure without insulation crimp). | AWG# 20 (0.50mm ²) | 60N (6.1kgf) MIN |
| | | | AWG# 22 (0.35mm ²) | 50N(5.1kgf) MIN |
| | | | AWG# 24 (0.22mm ²) | 35N(3.57kgf) MIN |
| | | | AWG# 26 (0.13mm ²) | 20N(2.1kgf) MIN |
| 5-2-3 | 端子保持力 Terminal/ Housing Retention Force | 以每分 25.4±3mm 的速率,将端子从 Housing 内轴向拔出的力量. Apply axial pull out force at the speed rate of 25.4±3mm/minute on the terminal assembled in the housing. | 不加TPA Without Retainer | 15 N MIN. { 1.53kgf MIN. } |
| | | | 加TPA With Retainer | 35 N MIN. { 3.57kgf MIN. } |
| 5-2-4 | 端子插入力 Terminal Insertion Force | 铆线后之端子插入 Housing 所需最大力量. Insert the crimped terminal into the housing. | 9.8N {1.0kgf} Max. | |
| 5-2-5 | 线端与板端保持 力 Housing / Wafer Retention Force | 配对连接器,以25±3mm/min的速度施加拉出力。这个测试应该在锁合状态下进行 Mate connectors and apply pull-out force at the speed rate of 25±3mm/min. This test should be done with positive lock locked. | 1 to2 pin | 40N {4.08kgf} MIN. |
| | | | 3 to6 pin | 50N {5.1kgf} MIN. |
| | | | > 6 pin | 60N {6.12kgf} MIN. |



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5-3. 环境性能及其它 Environmental Performance and Others.

| 项 目 【Item】 | | 条 件 【Test Condition】 | 规 格 【Requirement】 | |
|---------------|--|---|----------------------------|---------------------|
| 5-3-1 | 重复插拔 Repeated Insertion/ Withdrawal | 以每分钟不超过 10 次的速率,将公母插拔 10 次. When mated up to 30 cycles repeatedly by the rate of 10 cycles/minute. | 接触阻抗 Contact Resistance | 20 milliohms Max. |
| 5-3-2 | 温升测试 Temperature Rise | 公母连接器配合后,加载额定电流直到温度上升到稳定状态,然后再测量温升(EIA364-70, Method 1) Mating connectors shall be energized at rating current until thermal stability is achieved, and then measured the temperature rise(EIA364-70, Method 1) | 温升测试 Temperature rise | 30℃ Max. |
| 5-3-3 | 振动测试 Vibration test | 振幅: 1.5mm P-P 时间: 20~200~20 Hz in 3minute 持续时间: 每轴向 3 小时 加速度: 44m/S ² 开放电压: 20mV 以下 开放电流: 10mA 以下 Amplitude: 1.5mm P-P Sweep time: 20~200~20 Hz in 3 minute Duration: 3 hours in each X.Y.Z axis. (Based upon EIA-364-28B/MIL-STD-202 Method 213B Cond. A) | 外观 Appearance | 无异状 No Damage |
| | | | 接触阻抗 Contact Resistance | 20 milliohms Max. |
| | | | 电压降 Voltage Drop | 20 mV/A Max. |
| | | | 瞬断 Discontinuity | 1 micro-second Max. |
| 5-3-4 | 冲击测试 Shock test | 在 X.Y.Z 上 6 个方向上,以 981m/s ² (100g 的力量)冲击下各 3 回. 作用时间: 6ms With mounted to equipment and mated connectors, subject to the following shock conditions: Peak value: 981m/s ² (100G) Duration: 3 strokes in each X, Y, Z axes. Operation time: 6ms | 外观 Appearance | 无异状 No Damage |
| | | | 瞬断 Discontinuity | 1 micro-second Max. |



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| 项 目 【Item】 | | 条 件 【Test Condition】 | 规 格 【Requirement】 | |
|---------------|-----------------------------|---|---|---------------------|
| 5-3-5 | 耐热性 Heat Resistance | 125±2℃,96 hours. (Based upon MIL-STD-202 Method 108A Cond. A) | 外观 Appearance | 无异状 No Damage |
| | | | 接触阻抗 Contact Resistance | 20 milliohms Max. |
| 5-3-6 | 耐寒性 Cold Resistance | -40±2℃,96 hours. (Based upon EIA-364-105) | 外观 Appearance | 无异状 No Damage |
| | | | 接触阻抗 Contact Resistance | 20 milliohms Max. |
| 5-3-7 | 耐湿性 Humidity | 温度: 60±2℃ 湿度: 90~95%(RH) 持续时间: 96 hours Temperature: 60±2℃ Relative Humidity: 90~95% Duration: 96 hours (Based upon EIA-364-31A/MIL-STD-202 Method 103B Cond. B) | 外观 Appearance | 无异状 No Damage |
| | | | 接触阻抗 Contact Resistance | 20 milliohms Max. |
| | | | 耐电压 Dielectric Strength | Must meet 5-1-3 |
| | | | 绝缘阻抗 Insulation Resistance | 100 Megohms Min. |
| 5-3-8 | 温度变化 Temperature Cycling | 从-40℃持续 30 分钟升至+125℃持续 30 分钟,循环 1000 次. With mated connectors, expose to follow- ing conditions: 1000 cycles of a) -40℃: 30 minutes b) +125℃: 30 minutes The test specimens shall be conditioned at ambient room conditions for 1~2 hours, after which the specified measure- ments shall be performed | 外观 Appearance | 无异状 No Damage |
| | | | 插入拔出手感 Insertion and Withdrawal Feeling | 无刮痕 No scratches |
| | | | 端子保持力Terminal / Housing Retention Force | Must meet 5-2-3 |
| | | | 端子压着强度 Crimping Pull Out Force | Must meet 5-2-2 |
| | | | 线端与板端保持力 Housing / Wafer Retention Force | Must meet 5-2-5 |
| | | | 接触阻抗 Contact Resistance | 20 milliohms Max. |



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| | | | 电压降 Voltage Drop | 20mV/A MAX. |
| 5-3-9 | 盐水喷雾 Salt Spray | 在温度 35±2℃,盐水浓度 5±1%下,盐水喷雾 48±1 小时. 48±1 hours exposure to a salt spray from the 5±1% solution at 35±2℃. (Based upon EIA-364-26B/MIL-STD-202 Method 101D Cond.B). | 外观 Appearance | 无异状 No Damage |
| | | | 接触阻抗 Contact Resistance | 20 milliohms Max. |
| 5-3-10 | SO2 gas | 接插件对插后, 并暴露在条件下 50±5ppm SO2气体在 40±2℃下24小时。 Mate connectors and expose to the conditions to 50±5 ppm SO ₂ gas at 40±2℃ for 24 hours. | 外观 Appearance | 无异状 No Damage |
| | | | 接触阻抗 Contact Resistance | 20 milliohms Max. |
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Product Specification [产品规格书]:

Document No

PS-2022-01

Subject [主题]:

Date Issued

2019/06/09

2.00mm Pitch 2022 Series Connector Specification

Date Revised

2018/05/26

Version

A0

【6.综合插入力及拔出力 INSERTION/WITHDRAWAL FORCE】<Connector mating force>

| PIN 数 No. of CKT | 单位 UNIT | 插入力 (最大值) Insertion Force (MAX.) | | | PIN 数 No. of CKT | 单位 UNIT | 插入力 (最大值) Insertion Force (MAX.) | | |
|------------------------|------------|-------------------------------------|------------|------------|------------------------|------------|-------------------------------------|--------------|--------------|
| | | 1 次 | 6 次 | 30 次 | | | 1 次 | 6 次 | 30 次 |
| | | | | | | | | | |
| 02 | N(kgf) | 35.2 (3.6) | 33.3 (3.4) | 33.3 (3.4) | 09 | N(kgf) | 82.3 (8.4) | 73.5 (7.5) | 73.5 (7.5) |
| 03 | N(kgf) | 43.1 (4.4) | 40.1 (4.1) | 40.1 (4.1) | 10 | N(kgf) | 88.2 (9.0) | 78.4 (8.0) | 78.4 (8.0) |
| 04 | N(kgf) | 50.9 (5.2) | 47.0 (4.8) | 47.0 (4.8) | 11 | N(kgf) | 94.0 (9.6) | 83.3 (8.5) | 83.3 (8.5) |
| 05 | N(kgf) | 58.8 (6.0) | 53.9 (5.5) | 53.9 (5.5) | 12 | N(kgf) | 99.9 (10.2) | 88.2 (9.0) | 88.2 (9.0) |
| 06 | N(kgf) | 64.6 (6.6) | 58.8 (6.0) | 58.8 (6.0) | 13 | N(kgf) | 107.6 (11.0) | 94.9 (9.7) | 94.9 (9.7) |
| 07 | N(kgf) | 70.5 (7.2) | 63.7 (6.5) | 63.7 (6.5) | 14 | N(kgf) | 113.9 (11.6) | 100.2 (10.2) | 100.2 (10.2) |
| 08 | N(kgf) | 76.4 (7.8) | 68.6 (7.0) | 68.6 (7.0) | 15 | N(kgf) | 120.2 (12.3) | 105.6 (10.8) | 105.6 (10.8) |
| PIN 数 No. of CKT | 单位 UNIT | 拔出力 (最小值) Insertion Force (MIN.) | | | PIN 数 No. of CKT | 单位 UNIT | 拔出力 (最小值) Insertion Force (MIN.) | | |
| | | 1 次 | 6 次 | 30 次 | | | 1 次 | 6 次 | 30 次 |
| | | | | | | | | | |
| 02 | N(kgf) | 1.0 (0.1) | 1.0 (0.1) | 1.0 (0.1) | 09 | N(kgf) | 4.7 (0.48) | 4.7 (0.48) | 5.4 (0.55) |
| 03 | N(kgf) | 1.5 (0.15) | 1.5 (0.15) | 2.1 (0.21) | 10 | N(kgf) | 5.3 (0.54) | 5.3 (0.54) | 5.8 (0.59) |
| 04 | N(kgf) | 2.0 (0.2) | 2.0 (0.2) | 3.2 (0.33) | 11 | N(kgf) | 5.8 (0.59) | 5.8 (0.59) | 6.2 (0.63) |
| 05 | N(kgf) | 2.8 (0.29) | 2.8 (0.29) | 3.7 (0.38) | 12 | N(kgf) | 6.4 (0.65) | 6.4 (0.65) | 6.6 (0.67) |
| 06 | N(kgf) | 3.5 (0.36) | 3.5 (0.36) | 4.2 (0.43) | 13 | N(kgf) | 6.7 (0.68) | 6.7 (0.68) | 7.0 (0.71) |
| 07 | N(kgf) | 3.9 (0.4) | 3.9 (0.4) | 4.6 (0.47) | 14 | N(kgf) | 7.2 (0.73) | 7.2 (0.73) | 7.4 (0.75) |
| 08 | N(kgf) | 4.2 (0.43) | 4.2 (0.43) | 5.0 (0.51) | 15 | N(kgf) | 7.7 (0.79) | 7.7 (0.79) | 7.8 (0.80) |