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| Product Specification [产品规格书]:                                    | ISSUED BY: Engineering Dept |           |
| Subject [主题]:<br>1.00mm Pitch 1013 Series Connector Specification | Date Issued                 | 2012/8/22 |
|   | Date Revised                | 2013/8/26 |

This specification is referred to the 1.00mm series wire to board connector

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**【1.适用范围 Scope】**

此种规格包括 1.00mm Pitch 1013 Series 连接器规格说明.

This Specification Covers the 1.00mm Pitch 1013 Series Connector Specification.

**【2.规格与料号 Spec and Part number】**

| 规格内容<br>Specification | 产品料号<br>Production No.      | 产品图示<br>Picture of Product |
|-----------------------|-----------------------------|----------------------------|
| 端子/Terminal           | 1013T-PV01                  | NONE                       |
| 胶壳/Housing            | 1013H-06-46<br>1013H-06A-46 | NONE                       |

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

| 规格内容<br>Specification | 材质<br>Materials    | 表面处理<br>Disposal of Surface     |
|-----------------------|--------------------|---------------------------------|
| 端子/Terminal           | 磷铜/Phosphor Bronze | Gold Flash .Nickel: Over 30μ" . |
| 胶壳/Housing            | PA46               | 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   | [AC/DC] |
| 额定电流 Rated Current (Max.)           | 1A   |         |
| 使用温度范围 Ambient temperature Range    | -25 ~+85                                     |         |
| 适用线径 Applicable wire insulation O.D | AWG 28#、30#、32# Insulation O.D. 0.80mm(Max.) |         |

**【 \*升温时含端子.Including terminal temperature rise. 】**

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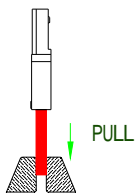
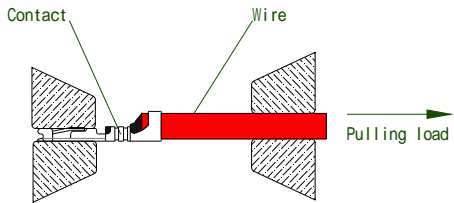
**【5.性能 PERFORMANCE】**

**5-1. 电气的性能 Electrical Performance.**

| 项 目<br>【Item】   | 条 件<br>【Test Condition】  | 规 格<br>【Requirement】  |
|---|--|---|
| 5-1-1<br>接触阻抗<br>Contact Resistance                         | 公母配合,开放电压 20mV 以下,电流 10mA 检测连接器 A~B 区.<br>Mate connectors, measure by dry circuit, 20mV MAX, 10mA.<br><br>(Based upon EIA-364-06A).  | Initial:<br>30 milliohms Max.<br>After Test:<br>40 milliohms Max. |
| 5-1-2<br>绝缘阻抗<br>Insulation Resistance                      | 公母配合,在相邻端子,端子与地片之间,使用 250V 的直流电,检测连接器.<br>Mate connectors, apply 250V DC between adjacent terminal or ground.<br>(Based upon EIA-364-21B / MIL-STD-202 Method 302 Cond.B)            | 100 Megohms Min.  |
| 5-1-3<br>耐电压<br>Dielectric Strength                         | 公母配合,在相邻端子,端子与地片之间,使用 250V 的交流电 1 分钟,检测连接器.<br>Mate connectors, apply 250V AC for 1 minute between adjacent terminal or ground.<br>(Based upon EIA-364-20A / MIL-STD-202 Method 301) | 不出现中断等情况<br>No Breakdown and Flashover                            |
| 5-1-4<br>铆线后端子接触阻抗<br>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.<br>Crimp the applicable wire on to the terminal measure by dry circuit 20mV MAX, 10mA.  | 5 milliohms Max.  |

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**5-2. 机械的性能 Mechanical Performance.**

| 项目<br>【Item】   | 条件<br>【Test Condition】  | 规格<br>【Requirement】  |     |     |     |
|--|---|--|-----|-----|-----|
| 5-2-1<br>端子保持力<br>Terminal/<br>Housing<br>Retention<br>Force       | <p>以每分 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.</p>  | 9.8N {1.0kgf} Min.   |     |     |     |
| 5-2-2<br>端子插入力<br>Terminal<br>Insertion<br>Force                   | <p>铆线后之端子插入 Housing 所需最大力量。<br/>Insert the crimped terminal into the housing.</p>   | 4.9N {0.5kgf} Max.   |     |     |     |
| 5-2-3<br>端子压着强度<br>Tensile<br>strength<br>(Crimped<br>connections) | <p>固定铆线后的端子,使电线与端子分离时所需的最小力量。<br/>Fix the crimped terminal, apply axial pull out force on the wire. (Do not crimp insulation part).</p>   | AWG#   | #28 | #30 | #32 |
|  |    | Spec.kgf.<br>Min.  | 1.0 | 0.5 | 0.3 |
|  |   | Note> As for unspecified wire sizes in this specification define values with clients |     |     |     |

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

| 项目<br>【Item】 |                             | 条件<br>【Test Condition】  | 规格<br>【Requirement】           |                      |
|--------------|-----------------------------|---|-------------------------------|----------------------|
| 5-3-1        | 耐热性<br>Heat Resistance      | 85±2 ,96 hours.<br>(Based upon MIL-STD-202 Method 108A Cond.A)  | 外观<br>Appearance              | 无异状<br>No Damage     |
|              |                             |   | 接触阻抗<br>Contact Resistance    | 30 milliohms<br>Max. |
| 5-3-2        | 耐寒性<br>Cold Resistance      | -25±5 ,96 hours.<br>( Based upon EIA-364-105)   | 外观<br>Appearance              | 无异状<br>No Damage     |
|              |                             |   | 接触阻抗<br>Contact Resistance    | 30 milliohms<br>Max. |
| 5-3-3        | 耐湿性<br>Humidity             | 温度: 40±2<br>湿度: 90~95%(RH)<br>持续时间: 96 hours<br>Temperature: 40±2<br>Relative Humidity: 90~95%<br>Duration: 96 hours<br>(Based upon EIA-364-31A/MIL-STD-202 Method 103B Cond.B) | 外观<br>Appearance              | 无异状<br>No Damage     |
|              |                             |   | 接触阻抗<br>Contact Resistance    | 30 milliohms<br>Max. |
|              |                             |   | 耐电压<br>Dielectric Strength    | Must meet<br>5-1-3   |
|              |                             |   | 绝缘阻抗<br>Insulation Resistance | 100 Megohms<br>Min.  |
| 5-3-4        | 温度变化<br>Temperature Cycling | 从-55 持续 30 分钟升至+85 持续 30 分钟,循环 5 次.<br>5 cycles of: a) -55 30 minutes.<br>b) +85 30 minutes.<br>(Based upon EIA-364-32B)  | 外观<br>Appearance              | 无异状<br>No Damage     |
|              |                             |   | 接触阻抗<br>Contact Resistance    | 30 milliohms<br>Max. |
| 5-3-5        | 盐水喷雾<br>Salt Spray          | 在温度 35±2 ,盐水浓度 5±1%下,盐水喷雾 24±1 小时.<br>24±1 hours exposure to a salt spray from the 5±1% solution at 35±2 .<br>(Based upon EIA-364-26A/MIL-STD-202 Method 101D Cond.B).          | 外观<br>Appearance              | 无异状<br>No Damage     |
|              |                             |   | 接触阻抗<br>Contact Resistance    | 30 milliohms<br>Max. |