



产 品 规 格 书

PRODUCT SPECIFICATION

【1】适用范围 SCOPE

本规格书适用于：2.54 间距条形连接器

This specification covers the2.54mm Pitch Bar Connectors serise.

【2】产品名称及型号 PRODUCT NAME AND PART NUMBER

| 产品名称 Product Name | 产品型号 Part Number |
|-------------------|------------------|
| 2.54              |                  |
|                   |                  |

【3】定格 RATINGS

| 项目   Item                           | 规           格 |                  | Requirement |
|-------------------------------------|---------------|------------------|-------------|
| 最大容许电压<br>Rated Voltage(MAX)        | 250V          | [AC(有效值 rms)/DC] |             |
| 最大容许电流<br>Rated Current(MAX)        | 1.0A          |                  |             |
| 使用温度范围<br>Ambient temperature Range |               | -25℃ ～ +85℃      |             |

【4】性能 PERFORMANCE

## 4.1 电气性能 Electrical Performance

| 项目 Item |                               | 条 件 Test Condition                                                                                                                      | 规格 Requirement        |
|---------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 4.1.1   | 接触电阻<br>Contact Resistance    | 适合嵌合状态；开放电压 20mV 以下；短路电流 10mA 的状态下测定。<br>Mate applicable and measure by dry circuit, 20mV MAX, 10mA.                                    | 20 m $\Omega$ MAX     |
| 4.1.2   | 绝缘电阻<br>Insulation Resistance | 适合嵌合状态；相邻端子间或端子与地面间加 DC 500V 下测定。<br>Mate applicable and apply 500V DC between adjacent terminal or ground.                             | 500M $\Omega$ MIN     |
| 4.1.3   | 耐电压<br>Dielectric             | 适合嵌合状态；相邻端子间或端子与地面间加 AC800V（有效值）历时 1 分钟下测定。<br>Mate applicable and apply 800V AC (rms) for 1minute between adjacent terminal or ground. | 无击穿现象<br>No Breakdown |

## 4.2 机械性能 Mechanical Performance

| 项目 Item |                                           | 条 件 Test Condition                                                                                         | 规格 Requirement                                                      |
|---------|-------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 4.2.1   | 插入力及拔出力<br>Insertion and Withdrawal Force | 用每分钟 25 $\pm$ 3mm 的速度；平行地插入、拔出。<br>Insert and extract applicable at the speed rate of 25 $\pm$ 3mm/minute. | 插入力 Insertion<br>5 * n (N) MAX<br>拔出力 Withdrawal<br>0.3 * n (N) MIN |
| 4.2.2   | 端子保持力<br>Terminal Retention Force         | 单一端子；以用每分钟 25 $\pm$ 3mm 的速度平行向外拉<br>Pull the terminal at the speed rate of 25 $\pm$ 3mm per minute         | 10 N MIN                                                            |

## 4.3 环境和其他性能 Environmental Performance and Others

| 项目 Item |                                           | 条 件 Test Condition                                                                                                             | 规格 Requirement             |                     |
|---------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------|
| 4.3.1   | 重复插拔<br>Repeated Insertion and Withdrawal | 无通电状态；以 10 次/分钟的速度插拔 20 次<br>Insertion and withdrawal catuator up to 20 cycles at the speed rate of less than 10 cyclea/minute | 接触抵抗<br>Contact Resistance | 60 m $\Omega$ MAX   |
| 4.3.2   | 温度上升<br>Temperature Rise                  | 适合嵌合状态；最大容许电流通电，温度测定。（UL 498）<br>Carrying rated current load. (UL 498)                                                         | 温度上升<br>Temperature Rise   | 30 $^{\circ}$ C MAX |

| 项目 Item |                             | 条 件 Test Condition                                                                                                                                                                                             | 规格 Requirement                |                                     |
|---------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------|
| 4.3.3   | 耐振动性<br>Vibration           | DC 1mA 通电状态下；嵌合轴沿 XYZ 三个方向振动；振幅 1.5mm；频率 10-55-10Hz/分；历时 2 小时<br>Amplitude: 1.5mm P-P<br>Sweep time: 10-55-10Hz in 1 minute<br>Duration: 2 hours in each X.Y.Z. axes                                           | 外观<br>Appearance              | 无损坏<br>No Damage                    |
|         |                             |                                                                                                                                                                                                                | 接触抵抗<br>Contact Resistance    | 60 m $\Omega$<br>MAX                |
|         |                             |                                                                                                                                                                                                                | 瞬断<br>Discontinuity           | 1 ms.MAX.                           |
| 4.3.4   | 耐冲击性<br>Shock               | DC 1mA 通电状态下；嵌合轴沿相互垂直的 6 个方向；以 490m/s <sup>2</sup> {50G}冲击；各 3 次<br>490m/s <sup>2</sup> {50G}, 3 strokes in each X.Y.Z. axes.                                                                                  | 外观<br>Appearance              | 无损坏<br>No Damage                    |
|         |                             |                                                                                                                                                                                                                | 瞬断<br>Discontinuity           | 1 ms.MAX.                           |
| 4.3.5   | 耐热性<br>Heat Resistance      | 适合嵌合状态；85 $\pm$ 2 $^{\circ}$ C 的空气中；放置 96 小时；再回到室温中放置 1-2 小时<br>85 $\pm$ 2 $^{\circ}$ C, 96 hour                                                                                                               | 外观<br>Appearance              | 无损坏<br>No Damage                    |
|         |                             |                                                                                                                                                                                                                | 接触抵抗<br>Contact Resistance    | 60 m $\Omega$<br>MAX                |
| 4.3.6   | 耐寒性<br>Cold Resistance      | 适合嵌合状态；-40 $\pm$ 2 $^{\circ}$ C 的空气中；放置 96 小时；再回到室温中放置 1-2 小时<br>-40 $\pm$ 2 $^{\circ}$ C, 96 hour                                                                                                             | 外观<br>Appearance              | 无损坏<br>No Damage                    |
|         |                             |                                                                                                                                                                                                                | 接触抵抗<br>Contact Resistance    | 60 m $\Omega$<br>MAX                |
| 4.3.7   | 耐湿性<br>Humidity             | 适合嵌合状态；40 $\pm$ 2 $^{\circ}$ C、相对湿度 90-95% 的空气中；放置 96 小时；再回到室温中 0.5 小时内测定<br><br>Temperature: 40 $\pm$ 2 $^{\circ}$ C<br>Relative Humidity: 90-95%<br>Duration: 96 Hours                                       | 外观<br>Appearance              | 无损坏<br>No Damage                    |
|         |                             |                                                                                                                                                                                                                | 接触抵抗<br>Contact Resistance    | 60 m $\Omega$<br>MAX                |
|         |                             |                                                                                                                                                                                                                | 耐电压<br>Dielectric Strength    | 必须满足<br>4.1.3<br>Must meet<br>4.1.3 |
|         |                             |                                                                                                                                                                                                                | 绝缘抵抗<br>Insulation Resistance | 100 M $\Omega$<br>MIN               |
| 4.3.8   | 温度循环<br>Temperature Cycling | 适合嵌合状态；-55 $\pm$ 3 $^{\circ}$ C 30 分钟；常温常湿 10-15 分钟；85 $\pm$ 2 $^{\circ}$ C 30 分钟；常温常湿 10-15 分钟，循环 5 次。<br><br>5 cycles of:<br>a) -55 $\pm$ 3 $^{\circ}$ C 30 minutes<br>b) 85 $\pm$ 2 $^{\circ}$ C 30 minutes | 外观<br>Appearance              | 无损坏<br>No Damage                    |
|         |                             |                                                                                                                                                                                                                | 接触抵抗<br>Contact Resistance    | 60 m $\Omega$<br>MAX                |

| 项目 Item |                                      | 条 件 Test Condition                                                                                                         | 规格 Requirement             |                     |
|---------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------|
| 4.3.9   | 耐盐雾性<br>Salt Spray                   | 适合嵌合状态；35±2℃、5±1%的盐水喷雾 48 小时；试验后常温水洗；再室温干燥。<br>48±4 hours exposure to a salt spray from the 5±1% solution at 35±2℃ .       | 外观<br>Appearance           | 无损坏、腐蚀<br>No Damage |
|         |                                      |                                                                                                                            | 接触抵抗<br>Contact Resistance | 60 m Ω<br>MAX       |
| 4.3.10  | 耐亚硫酸<br>SO2 Gas                      | 适合嵌合状态；40±2℃、50±5ppm 的亚硫酸中放置 24 小时<br>24 hours exposure to 50±5ppm. SO2 gas at 40±2℃ .                                     | 接触抵抗<br>Contact Resistance | 60 m Ω<br>MAX       |
| 4.3.11  | 耐氨性<br>NH3 Gas                       | 适合嵌合状态；浓度为 28%的氨水容器中；放置 40 分钟。<br>40 minutes exposure to NH3 gas evapporating from 28% Ammonia solution                    | 外观<br>Appearance           | 无损坏<br>No Damage    |
|         |                                      |                                                                                                                            | 接触抵抗<br>Contact Resistance | 60 m Ω<br>MAX       |
| 4.3.12  | 可焊性<br>Solderability                 | 端子前端浸入 235±5℃的锡槽中；历时 2±0.5 sec。<br>Soldering Time: 2±0.5 sec.<br>Soldering Temperature: 235±5℃<br>0.2 mm from terminal tip | 沾敷性<br>Solder Wetting      | 沾敷面积<br>95%以上       |
| 4.3.13  | 耐焊接热<br>Resistance to Soldering heat | 在 260±5℃热风炉中经 30±5sec 条件下，至少进行 5 次。<br>Soldering Time: 30±5 sec.<br>Soldering Temperature: 260±5℃                          | 外观<br>Appearance           | 无损坏、变形<br>No Damage |

(        )：参考规格 Reference Standard

{        }：参考单位 Reference Unit

【5】外观形状、寸法及材质 PRODUCT SHAPE,DIMENSIONS AND MATERIALS

图面参照 Refer to the drawing.

| 名 称 NAME     | 材 质 MATERIALS |
|--------------|---------------|
| 主体 Main body | LCP（本色）       |
| 端子 Sit uip   | 铜             |
|              |               |
| 备注 Remark    |               |