

* 3950 Series and 3951 Series Connector *

This product specification contains the test method, the general performance and requirements for interconnection system connector.

With 3950 series socket, 3951 series header and 3953series terminal.

1. Construction and dimensions shall be in accordance with the referenced drawings.

产品结构 and 尺寸依据所提供的产品图面。

2. Characteristics 特性:

Current rating 额定电流: 7A AC,DC

Voltage rating 额定电压: 250V AC,DC

Temperature rating 额定温度: -40°C ~ +105°C

Applicable wire 适用线材: conductor construction size #18 ~ #26

3. Electrical performance 电气特性:

| Item | Description 内容 | Test Method & Condition 测试方法与条件 | Requirement 需求 |
|------|--|--|---|
| 3-1 | Contact Resistance 接触阻抗 | It should be tested in accordance with method EIA-364-23 | Initial: 20 mΩ max. After environmental Test: 40 mΩ max. |
| 3-2 | Insulation Resistance 绝缘阻抗 | It should be tested in accordance with Method EIA-364-21 | Initial: 1000MΩ min. After humidity test 500 MΩ min. |
| 3-3 | Dielectric Withstanding Voltage 耐电压 | Unmated connectors shall be tested in Accordance with method EIA-364-20 when the AC 1500 V rms for one minute applied between adjacent contacts. | No evidence of break Down and flashover |

4. Mechanical Performance 机械特性:

| Item | Description 内容 | Test Method & Condition 测试方法与条件 | Requirement 需求 |
|------|----------------------------------|---|--|
| 4-1 | Crimp Tensile Strength 铆合张力强度 | Pulling load shall be applied between Correctly crimped contact and wire at a constant speed. Pulling speed: 25 mm / minute. | AWG #18: 10.0 kgf min. AWG #20: 6.0 kgf min. AWG #22: 4.0 kgf min. AWG #24: 2.5 kgf min. AWG #26: 1.5 kgf min. |
| 4-2 | Contact Insertion Force 接触插入力 | The force required to insert a contact into a housing. Inserting speed: 25 mm / minute. | 1.6kgf max. |
| 4-3 | Contact removal Force 接触拨出力 | Crimped contact mounted in a housing shall be pulled in an alignment at a constant speed of 25 mm / minute. | 2.0 Kgf min. |
| 4-4 | Post Retention Force 保持力 | The end of a post shall be pushed in a perpendicular to base housing at a constant speed of 25 mm / minute. | 2.0 kgf min. |
| 4-5 | Housing lock strength | Pulling load shall be applied to the housing in the direction that the housing separates from the header at a constant speed of 25mm/minute | 2 poles:1.5 kgf min 3~12 poles:5.0 Kgf min |
| 4-6 | Insertion Force 插入力 | Housing with contact mating header at a constant speed of 25 mm / minute. | See parameters 6 |

| LEOCO CORPORATION | | PRODUCTION SPECIFICATION | No. | S-96-3950 | REV | 5 |
|------------------------------------|-------------------------|--|---|-----------|-----|---|
| Item | Description 内容 | Test Method & Condition 测试方法与条件 | Requirement 需 求 | | | |
| 4-7 | Withdrawal Force 拔出力 | Housing with contact mating header, Pull out from header at speed 25 mm / minute. | See parameters 6 | | | |
| 4-8 | Durability 耐久性 | It should be tested in accordance with method EIA-364-09. Connector shall be subjected to 100 cycles of insertion and withdrawal | No defects. Contact resistance shall be 20mΩ max | | | |
| 4-9 | Vibration 振动性 | The socket mated PCB shall be vibrated in accordance with method EIA-364-28. There shall be no current discontinuity longer than 1 microsecond during the test . Frequency: 10-55-10 Hz / min. Amplitude: 1.52mm Period: 2 hours for each direction | No evidence of loosening of parts or electric discontinuity. Contact resistance less than twice of initial. | | | |
| 5. Environmental Performance 环境特性: | | | | | | |
| Item | Description 内容 | Test Method & Condition 测试方法与条件 | Requirement 需 求 | | | |
| 5-1 | Humidity 耐湿性 | The unmated connector shall be tested in accordance with method EIA-364-31. Temperature: 40±2 °C Humidity: 90 ~ 95 % (RH) Period: 96 hours. | NO damage. Contact resistance less Than twice of initial. Insulation resistance: to paragraph 3-2. Dielectric withstanding voltage: to paragraph 3-3 | | | |
| 5-2 | Thermal Shock 热冲击测试 | one cycle consists of: -25°C for 30 minutes. +105°C for 30 minutes. Times of cycle:25 cycle. | No damage. Contact resistance less than twice of initial Insulation resistance :to paragraph.3-2. Dielectric withstanding voltage :to paragraph 3-3. | | | |
| 5-3 | Salt Spray 盐雾试验 | Connector shall be tested in accordance with method EIA-364-26 Temperature: 35±2 °C Density: 5 % in weight. Period: 24 hours. | NO damage. Contact resistance less than twice of initial. | | | |
| 5-4 | Solderability 着锡性 | Connector termination ends shall be checked for solderability in accordance with method EIA-364-52. Solder temperature: 245±5 °C Immersion period: 5±0.5 sec. | NO damage. Minimum: 95 % of immersed area. | | | |

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| Item | Description 内容 | Test Method & Condition 测试方法与条件 | Requirement 需求 |
|------|---------------------------------------|---|----------------------------|
| 5-5 | Resistance to Soldering Heat 焊接耐热性 | Specimen shall be mounted on PCB. Solder temperature: 255±5 °C Immersion period: 5±0.5 sec. | NO damage and deformation. |

6.Mating force and unmating force 插拔力:

Unit :Kgf

| Number of circuits | Mating Force | Unmating Force(min.) | | | |
|--------------------|--------------|----------------------|------|------|------|
| | Initial max. | Initial | 6th | 30th | 60th |
| 2 | 2.25 | 0.60 | 0.35 | 0.30 | 0.20 |
| 3 | 3.22 | 0.80 | 0.48 | 0.43 | 0.33 |
| 4 | 4.08 | 1.10 | 0.72 | 0.67 | 0.57 |
| 5 | 4.85 | 1.50 | 1.05 | 1.00 | 0.90 |
| 6 | 5.78 | 1.50 | 1.10 | 0.95 | 0.82 |
| 7 | 6.61 | 1.60 | 1.25 | 1.00 | 0.84 |
| 8 | 7.44 | 1.70 | 1.40 | 1.05 | 0.86 |
| 9 | 8.27 | 1.80 | 1.55 | 1.10 | 0.88 |
| 10 | 9.00 | 2.00 | 1.80 | 1.15 | 1.00 |
| 11 | 9.83 | 2.00 | 1.85 | 1.20 | 0.92 |
| 12 | 10.66 | 2.10 | 2.00 | 1.25 | 0.94 |

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