

|                   |                          |     |             |
|-------------------|--------------------------|-----|-------------|
| LEOCO CORPORATION | PRODUCTION SPECIFICATION | No. | S-90-2615-1 |
|-------------------|--------------------------|-----|-------------|

\* 2615 SERIES INSULATION DISPLACEMENT CONNECTORS SYSTEM \*

This specification describes the characteristics, test condition and particular sanctions applicable to LEOCO 2615 series Connector socket.

1. Electrical performance 电气性能:

| ITEM<br>项目 | DESCRIPTION<br>内容                       | TEST CONDITION<br>测试条件                                      | REQUIREMENT<br>需求        |
|------------|---|---|--------------------------|
| 1.1        | Rated voltage<br>And current<br>额定电压和电流 | -   | AC 250V 1A<br>DC 250V 1A |
| 1.2        | Contact<br>Resistance<br>接触阻抗           | Dry circuit of DC 50mV<br>50mA max.                         | 20 miliohms max.         |
| 1.3        | Dielectric<br>Strength<br>耐电压           | When applied AC 1000V 1 minute<br>between adjacent terminal | No change                |
| 1.4        | Insulation Resistance<br>绝缘阻抗           | When applied DC 500V between<br>adjacent terminal or ground | 1000 Megaohms min.       |

2. Mechanical Performance 机械性能 :

| ITEM<br>项目 | DESCRIPTION<br>内容                    | TEST CONDITION<br>测试条件  | REQUIREMENT<br>需求                                    |
|------------|--------------------------------------|---|--|
| 2.1        | Wire size<br>线径                      | 1.27mm(.050") ribbon cable  | Accepts AWG #28                                      |
| 2.2        | Insertion<br>Force<br>插入力            | Insert speed 25+/-3mm to<br>I.C. socket   | -  |
| 2.3        | Terminal retention<br>Force<br>端子保持力 | Retention speed 25+/-3mm<br>From housing per minute   | 1.5 kgs  |
| 2.4        | Withdrawal<br>Force<br>拔出力           | Connector socket pull out from<br>header under same condition as<br>above. (lock should be removed) | -  |
| 2.5        | Durability<br>耐久性                    | When mated up to 60 cycle<br>by the rare of 10 cycle per<br>Minute.                                 | Contact resistance:<br>Less than twice of<br>initial |

3. Environmental Performance 环境性能 :

| ITEM<br>项目 | DESCRIPTION<br>内容           | TEST CONDITION<br>测试条件   | REQUIREMENT<br>需求   |
|------------|-----------------------------|--|---|
| 3.1        | Temperature<br>Rise<br>温升测试 | Then carried the rated current                                   | 30 Deg. C max.  |
| 3.2        | Vibration<br>振动测试           | 1.5mm 10-55-10HZ/minute each<br>2 hours for X,Y and Z directions | Discontinuity:1<br>micro second max.<br>Appearance: no damage |
| 3.3        | Shock<br>冲击测试               | 50G, each 3 times for X,Y&Z Directions<br>Appling 0-1 A-DC       | Discontinuity:1<br>micro second Max.<br>Appearance: no damage |
| 3.4        | Solderability<br>着锡性        | Soldering time: 5+/-0.5 second.<br>Soldering pot: 245+/-5 Deg C  | Mininum:75% of<br>Immersed area.                              |

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| ITEM<br>项目  | DESCRIPTION]<br>内容                    | TEST CONDITION<br>测试条件   | REQUIREMENT<br>需求                                  |             |
| 3.5   | Resistance to Soldering heat<br>耐高温焊接 | Solder time: 5+/-0.5 second.<br>Solder pot: 260+/-5 Deg. C   | No damage  |             |
| 3.6   | Heat aging<br>热老化测试                   | 85+/-2 Deg.C.,500 hours  | No damage  |             |
| 3.7   | Humidity<br>耐湿性                       | 40+/-2 Deg.C, 90-95% RH,<br>96 HRS Measurement must be<br>Taken withen 30 min.after tested   | Contact resistance:<br>Less than twice of initial. |             |
|   |                                       |  | Dielectric strength:<br>To pass para 1-3           |             |
|   |                                       |  | Appearance: No damage                              |             |
| 3.8   | Temperature Cycling<br>温度循环测试         | One cycle consists of:<br>(1)-25+/-3 Deg. C 30 min.<br>(2)Room Temp. 10-15 min.<br>(3)85+/-2 Deg. C 30 min.<br>(4) Room Temp. 10-15 min. | Appearance: No damage                              |             |
|   |                                       |  | Contact resistance:<br>Less than twice of initial  |             |
| 3.9   | Salt Spray<br>盐雾测试                    | Temp: 35+/-3 Deg. C<br>Solution: 5+/-1%<br>Spray Time: 48+/-4 hours.<br>Measurement must be taken<br>After water rince.                  | Appearance: No damage                              |             |
|   |                                       |  | Contact resistance:<br>Less than twice of initial  |             |
| 3.10  | S02 Gas<br>耐酸性                        | 24 hours in sulfur dioxide gas<br>(S02) 50+/-5PPM at 40+/-2 deg.C  | Contact resistance:<br>Less than twice of initial  |             |
| 3.11  | NH4 GAS<br>耐碱性                        | 40 Minutes in saturated<br>ammonia gas by 28% liquid<br>ammonia at 25+/-2 DEG.C  | Appearance: No damage                              |             |
|   |                                       |  | Contact resistance:<br>Less than twice of initial  |             |
| 4.AMBIENT TEMPERATURE RANGE 温度范围: -25 TO +85 degree C.  |                                       |  |  |             |
| 5.CONSTRUCTION AND DIMENTIONAL 结构与尺寸: See attached drawings.  |                                       |  |  |             |
| 6.DRDERING INFORMATION 排序资料:  |                                       |  |  |             |
| <u>2615S</u> <u>34</u> <u>U</u> <u>001</u><br>1            2    3        4  |                                       |  |  |             |
| 1. Series NO.<br>2. No. of circuits.<br>3. Plating: (Selective gold plated)<br>T=Tin plated<br>U=Glod flash over 50u". nickel<br>X=10u" gold over 50u". nickel<br>W=15u" glod over 50u". nickel<br>Z=30u" glod over 50u". nickel<br>4. Special options. |                                       |  |  |             |
| APPR BY:  |                                       | CHKD BY:   |  | SPEC BY:    |