LEOCO CORPORATION	PRODUCTION SPECIFICATION	No.	S-96-5080	REV	3

∗ 5080 Series and 5086 Series Connector ∗

This product specification contains the test method, the general performance and requirements for interconntection system connector with 5080 series socket ,5086 series header and 3973、3978、3979、3983 series crimp terminal.

1. Construction and dimensions shall be in accordance with the referenced drawings.
   产品结构和尺寸依据所提供的产品图面.
2. Characteristics 特性:
   Current rating 额定电流: 5A AC,DC
   Voltage rating 额定电压: 250V AC,DC
   Temperature rating 额定温度: -25℃ ~ +105℃
   Applicable wire 适用线材: conductor construction size #18 ~ #24
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.
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.	1.25kgf max.
4-3	Contact removal Force 接触拔出力	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 25mm/minute	2.0 kgf min
4-5	Insertion Force 插入力	Housing with contact mating header at a constant speed of 25 mm / minute.	2.0 kgf min
4-6	Withdrawal Force 拔出力	Housing with contact mating header, Pull out from header at speed 25 mm / minute.	0.5 kgf max
4-7	Durability 耐久力	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

ITEM	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件	REQUIREMENT 需　　求
4-8	Vibration 振动性	The connector 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 withstand ing voltage: to paragraph 3-3
5-2	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: 16 hours.	NO damage. Contact resistance less than twice of initial.
5-3	Solderability 着锡性	Connector termination ends shall be checked for solderability in accordance with method EIA-364-252 Solder temperature: 245±5 °C Immersion period: 5±0.5 sec.	NO damage. Minimum: 95 % of immersed area.
5-4	Resistance to Soldering Heat 附着耐热性	Specimen shall be mounted on PCB. Solder temperature: 260±5 °C Immersion period: 5±0.5 sec.	NO damage and deformation.

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