＊　　1.27mm（.050"）Pitch Single Row Breakaway Pin Header&Socket　　＊

　This product specification contains the test method, the general performance and requirements for pin header system connector with 1271series breakaway pin header and1276,1277 series breakaway socket.

1.　Construction and dimensions shall be in accordance with the referenced drawings.
产品结构和尺寸依据所涉及的产品图面.

2.　Characteristics 特征:
Current rating 额定电流: 1A　　DC
Voltage rating 额定电压 : 250V　　AC
Temperature rating 额定温度: -40℃ ~ +105℃

3.　Electrical performance 电气特性:

ITEM	DESCRIPTION 内容	TEST METHOD & CONDITION	REQUIREMENT 需求
3-1	Contact Resistance 接触阻抗	It should be tested in accordance with method EIA-364-23.	30 mΩ max.
3-2	Insulation Resistance 绝缘阻抗	It should be tested in accordance with method EIA-364-21.	1000 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 500 V rms for one minute applied between adjacent contacts.	No evidence of breakdown and flashover

4.　Mechanical Performance 机械特性 :

ITEM	DESCRIPTION 内容	TEST METHOD & CONDITION	REQUIREMENT 需求
4-1	Post retention force 保持力	Push pin from insulator base at speed 25mm/minute.	0.4kgf/pin. min
4-2	Contact removal force 接触拔出力	Contact inserted in a housing shall be pulled in an axis at a constant speed of 25 mm /minute.	0.4kgf/pin. min
4-3	Insertion Force 插入力	Housing with contact mating header at a constant speed of 25 mm / minute. Use in 0.64mm(0.025")square pin.	0.25kgf/pin. max

LEOCO CORPORATION	PRODUCTION SPECIFICATION	No.	S-90-1271	REV	3

Item	Description 内容	Test Method & Condition	Requirement 需求
4-4	Withdrawal Force 拨出力	Housing with contact mating header, Pull out from header at speed 25mm / minute. Use in 0.64mm(.025")square pin.	0.015kgf/pin. min
4-5	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 40 mΩ max.
4-6	Vibration 振动	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			
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: paragraph 3-2. Dielectric withstanding voltage: to pass paragraph 3-3.

Item	Description 内容	Test Method & Condition	Requirement 需求
		LEOCO CORPORATION	PRODUCTION SPECIFICATION	No.	S-90-1271	REV	3

Item	Description 内容	Test Method & Condition	Requirement 需求
5-2	Thermal shock 冲击	Connector shall be subjected to thermal shock cycling in accordance with method EIA-364-27. one cycle consists of:-25℃ for 30 minutes. +105℃ for 30 minutes. Times of cycle:25 cycles.	No damage. Contact resistance: Less than twice of Initial. Insulation resistance: paragraph 3-2. Dielectric withstanding voltage: to pass 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: 48 hours.	No damage Contact resistance: Less than twice of initial.
5-4	Solder ability 着锡性	Connector termination ends shall be checked for solderadility 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.
5-5	Resistance to soldering heat 耐高温焊接	Specimen shall be mounted on PCB. Solder temperature : 260±5℃ Immersion period : 5±0.5sec.	No damage and deformation.

APPR BY: Chard   CHKD BY: Angel   SPEC BY: Spring   2017.08.30