

\* D-Sub. Connector System \*

This product specification contains the test method, the general performance and requirements for foot print D-sub. Connector. With DPL,DPM,DPQ series plug and DSL,DSM,DSQ series socket connector.

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: 3 A

Voltage rating 额定电压: 250V

Temperature rating 额定温度: -25      105 +°C

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.	20 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 1000V 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	Contact removal Force 端子拔出力	EIA-364-13 Contact mounted in a housing shall be pulled in an alignment at a Constant speed of 25mm / minute.	2.0 Kgf min.
4-2	Insertion Force 插入力	EIA-364-13 Use in 1.04mm gage insertion connector at a constant speed of 25mm / minute.	300 gram max.
4-3	Withdrawal Force 拔出力	EIA-364-13 Use in 0.98mm gage pull out from connector at a constant speed of 25 mm / minute.	30 gram min.
4-4	Mating and unmating force 插拔力	It should be tested in according with method EIA-364-13.Two mating connector shall be fully mated or coupled at a rated specified	See parameters 6.
4-5	Durability 耐久性	It should be tested in accordance with method EIA-364-09.Connector shall be subject to 100 cycle of insertion and withdraw.	No defect. Contact resistance shall be 20mΩ max.

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4-6	Vibration 振动测试	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 1002.2 of MIL-STD-1344A test procedure type I condition B. Temperature: 40±2 °C Humidity: 90 ~ 95 % (RH) Period: 96 hours.	NO damage. Contact resistance less than twice of initial. Insulation resistance: to pass para. 3-2. Dielectric withstanding voltage: to pass para 3-3				
5-2	Thermal Shock 冷热冲击	Connector shall be subjected to thermal shock cycling in of EIA-364-32. One cycle consists of:-25°C for 30 min. +105°C for 30 min. Times of cycle:25 cycles	NO damage. Contact resistance less than twice of initial. Insulation resistance: to pass para. 3-2. Dielectric withstanding voltage: to pass para 3-3				
5-3	Salt Spray 盐雾测试	Connector shall be tested in accordance with method EIA-364-26 Temperature: 35±2 °C Density: 5 % in weight. Period: 8 hours.	No damage. contact resistance less than twice of initial.				
5-4	Solderability 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.				

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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.			

6.Mating force and Unmating force 插拔力:

Unit:Kgf

Number of Contace	Mating Force (max)	Unmating force (min)
09	3.10	0.33
15	4.00	0.45
25	6.80	0.78
37	10.80	1.15

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