

LEOCO CORPORATION	PRODUCTION SPECIFICATION	No.	S-96-DHPL	Rev.	6
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\* DHPL Series And DHSL Series D-SUB Connector \*

This product specification contains the test method, the general performance and requirements for PCB mount high density D-sub. Connector. With DHPL series plug and DHSL series socket series connector.

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

产品结构尺寸依据所提供的产品图面。

2. Characteristics 特性:

Current rating 额定电流: 3 A AC,DC

Voltage rating 额定电压: 250V AC,DC

Temperature rating 额定温度: -25°C ~ +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 25 mm / minute.	2.0 Kgf min.
4-2	Insertion Force 插入力	EIA-364-13. Use in 0.78mm gage insertion connector at a constant speed of 25 mm / minute.	240 gram max.
4-3	Withdrawal Force 拔出力	EIA-364-13. Uses in 0.74mm gage pull out from connector at a constant speed of 25mm / minute.	15 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.

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Item	Description 内容	Test Method & Condition 测试方法与条件		Requirement 需 求			
4-5	Vibration 振动测试	The socket mated header shall be vibrated in accordance with method EIA-364-28. There shall be no current discontinuity longer than 1 microsecond during the test. Frequency: 10-55-10Hz/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.			
4-6	Durability 耐久性	It should be tested in accordance with EIA-364-09. Connector shall be subjected to 100 cycles of insertion and withdrawal.		No defects. Contact resistance shall be 20 mΩ max			
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 evidence of 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 accordance with method EIA-364-32. One cycle consists of: -25°C for 30 minutes. +105°C for 30 minutes. Times of cycle: 25 cycles.		No evidence of 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 base metal exposed contact resistance less than twice of initial.			

Item	Description 内容	Test Method & Condition 测试方法与条件	Requirement 需 求
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.
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 Contact	Mating Force (max)	Unmating force (min)
15	3.70	0.52
26	9.90	1.00
44	12.50	1.35
62	19.40	1.75
78	24.50	2.00

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