

LEOCO CORPORATION	PRODUCTION SPECIFICATION	No.	S-96-D*T0-3
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* DPT Series and DST Series D-Sub. Connector *

This product specification contains the test method, the general performance and requirements for top entry PCB mount D-sub. Connector. With DPT series plug and DST 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 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 3004.1 of MIL-STD-1344A.	20 mΩ max.
3-2	Insulation Resistance 绝缘阻抗	It should be tested in accordance with Method 3003.1 of MIL-STD-1344A.	5000 MΩ min.
3-3	Dielectric Withstanding Voltage 耐电压	Unmated connectors shall be tested in Accordance with method 3001.1 of MIL-STD-1344A when the AC 1000 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	Contact removal Force 端子保持力	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	Use in 1.04mm gage insertion connector at a constant speed of 25 mm / minute.	300 gram max.
4-3	Withdrawal Force 拔出力	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 2013.1 of MIL-STD-1344A. Two mating connector shall be fully mated or coupled at a rated specified	See parameters 6.
4-5	Vibration 振动测试	The connector mated with another connector shall be vibrated in accordance with method 2005.1 of MIL-STD-1344A test condition B. There shall be no current discontinuity longer than 1 microsecond during the test .	No evidence of loosening of parts or elect-ric discontinuity. Contact resistance less than twice of initial.

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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 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 107E.of MIL-STD-202F condition B.	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 1001.1 of MIL-STD-1344A condition B. Temperature: 35±2 °C Density: 5 % in weight. Period: 48 hours.	No base metal exposed contact resistance less Than twice of initial.
5-4	Solderability 着锡性	Connector termination ends shall be checked for solder ability in accordance with method 208 of MIL-STD-202F. Solder temperature: 245±5 °C Immersion period: 5±0.5 sec.	NO damage. Minimum: 95 % of immersed area.
5-5	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:

Uint:Kgf

Number of Contact	Mating Force (max)	Unmating force (min)
09	3.10	1.00
15	4.00	1.20
19	5.10	1.80
23	5.80	2.10
25	6.80	3.10
37	10.80	4.00
50	15.47	4.90

APPR BY:

CHKD BY:

SPEC BY: