

LEOCO CORPORATION	PRODUCTION SPECIFICATION	No.	S-00-MDSL-5
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\* MDSL Series MINI DIN Connector System \*

This product specification contains the test method, the general performance and for side entry PCB mount socket MINI DIN connect with MDSL series socket connector.

1. Construction and dimensions shall be in accordance with the referenced drawings.
2. Characteristics 特性:  
 Current rating 额定电流: 1A  
 Voltage rating 额定电压: 50V  
 Temperature rating 额定温度: -25°C~+105°C 123
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.	50 MΩ min
3-3	Dielectric Withstanding Voltage 耐电压	Unmated connector shall be tested in accordance with method 3001.1 of MIL-STD-1344A. When the AC 500Vrms 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 测试方法与条件	Requirement 需求
4-1	Insertion Force 插入力	Insertion connector at a constant of 25 mm/minute.	285 gram max.
4-2	Withdrawal Force 拔出力	Pull out from connector at a constant speed of 25 mm/minute.	30 gram max.
4-3	Mating Force 插入力	Measure force necessary to mated connector assemblies at Maximum rate of 25.0 mm per Minute.	4.5 kgf minimum
4-4	Unmating force 拨入力	Measure force necessary to Unmated connector assemblies at Maximum rate of 25.0 mm per Minute.	0.9 Kgf minimum
4-5	Vibration 振动测试	The connector mated PCB 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 micor second 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.

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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 damage. Contact resistance less than twice of initial. Insulation resistance: to pass parameter 3-2 Dielectric withstanding voltage: to pass parameter 3-3.
5-2	Thermal shock 热量冲击测试	Connector shall be subject to thermal shock cycling in accordance with method 107e of MIL-STD-202F condition B.	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 100.1 of MIL-STD-1344A condition B. Temperature: 35±2°C Density: 5% in weight Period: 48 hours.	No damage. Contact resistance less than twice of initial.
5-4	Solderability 着锡性	Connector termination ends shall be checked for solderability 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 耐高温焊接	Specimen shall be mounted on PCCB. Solder temperature :260±5°C Immersion period : 5±0.5°sec	No damage and deformation.

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