

LEOCO CORPORATION	PRODUCTION SPECIFICATION	No.	S-97-1085-5
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* 1085 SERIES AND 1086 SERIES CONNECTOR *

This product specification contains the test method, the general performance and requirements for interconnection system connector with 1085 series socket, 1086 series header and 1084 series terminal.

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

产品结构尺寸依据所提和产品图面

2. Characteristics 特性:

Current rating 额定电流: 7A AC,DC

Voltage rating 额定电压: 250V AC,DC

Temperature rating 温度: -25°C ~+105°C

Applicable wire 适用线材: conductor construction size #18~#24

3. Electrical performance 电气特性:

ITEM 项目	DESCRIPTION 内容	TEST CONDITION 测试条件	REQUIREMENT 要求
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 绝缘电阻	It should be tested in accordance with method 3003.1 of MIL-STD-1344A.	1000 mΩ mix
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 1500 V rms for one minute applied between adjacent contacts.	No evidence of breakdown and flashover.

4. Mechanical Performance 机械特性:

ITEM 项目	DESCRIPTION 内容	TEST CONDITION 测试条件	REQUIREMENT 要求
4-1	Crimp Tensile Strength 铆合张力强度	Pull load shall be applied between correctly crimped contact and wire at a constant speed. Pulling speed:25mm/minute.	AWG #18: 10.0 kg min.
			AWG #20: 8.0 kg min.
			AWG #22: 6.3 kg min.
			AWG #24: 4.5 kg min.
4-2	Insertion force 插入力	Use in ϕ 2.33 mm gage insertion connector at a constant speed of 25 mm/minute.	2.0 Kg max
4-3	Contact Insertion Force 接触插入力	The force required to insert a contact into a housing, Inserting speed:25 mm/minute.	1.3 kg max.

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Item 项目	Description 内容	Test Method 测试条件	Requirement 要求
4-4	Withdrawal Force 拔出力	Use in ϕ 2.33 mm gage pull out from connector at a constant speed of 25 mm/minute.	850 gram min. P/N:1084T*BI000 (Use in 1 circuit)
			450 gram min. P/N:1084T*BI001 (Use in 2 through 6 circuits)
4-5	Contact Removal Force 接触拔出力	Crimped contact mounted in a housing shall be pulled in an alignment at a constant speed of 25 mm/minute.	3.0 kg min.
4-6	Post Retention Force 保持力	The end of a post shall be pushed in a perpendicular to base housing at a constant speed of 25 mm/minute.	1.5 kg min
4-7	Durability 耐久性	It should be tested in accordance with method 2016 of MIL-STD-1344A.connector shall be subjected to 100 cycles of insertion and withdrawal.	No defects. Contact resistance shall be 20 m Ω max.
4-8	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 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 项目	Description 内容	Test Method 测试条件	Requirement 要求
5-1	Salt spray 盐雾测试	Temperature:35+/-3 Deg. C Solution: 5+/-1% Spray Time: 48+/-4 hours. Measurement must be taken After water rinse.	No damage . Contact resistance: Less than twice of initial

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Item 项目	Description 内容	Test Method 测试条件		Requirement 要求	
5-2	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℃ Humidity: 90~95 %(RH) Period: 96 hours.		No damage. Contact resistance less than twice of initial. Insulation resistance: lvchanghdara .3-2 Dielectric withstanding voltage: to pass para 3-3	
5-3	Solderability 着锡性	Connector termination ends shall be checked for solderability in accordance with method 208 if MIL-STD-202F. Solder temperature:245+/-5 ℃ Immersion period: 5+/-0.5 sec.		No damage. Minium: 95 % of immersed area.	
5-4	Resistance to Soldering Heat 耐高温焊接	Specimen shall be mounted on PCB. Solder temperature :260+/-5℃. Immersion period: 5+/-0.5 sec.		No damage and deformation.	
5-5	Cold 冷却测试	It shall be tested in accordance with method 11233 of CNS. Temperature:-25+/-3℃. Period: 96 hours.		No damage. Contact resistance less than twice of initial.	
5-6	Dry Heat 加热干燥测试	It shall be tested in accordance with method 3634 of CNS. Temperature:+85+/-2℃. Period: 96 hours.		No damage. Contact resistance less than twice of initial.	
APPR BY:		CHKD BY:		SPEC BY:	