

LEOCO CORPORATION		PRODUCTION SPECIFICATION		No.	S-16-2537-1
* 2537 Series Smart-Card Connector *					
This product specification contains the test method, the general performance and requirements for smart-card connector.					
1. Construction and dimensions shall be in accordance with the referenced drawings. (产品结构和尺寸依据所提的产品图面)					
2. Characteristics（特性）：					
Current rating（额定电流）： 0.5A					
Voltage rating（额定电压）： 30V DC , AC					
Temperature rating（额定温度）： -25℃ ~ +85℃					
3. General examination of product					
Item	Description (内容)	Test Method & Condition (测试方法与条件)		Requirement (需求)	
3-1	Visual Examination (外观检查)	EIA-364-18		Meets requirements of product drawing. No physical damage.	
4. Electrical performance（电气特性）：					
Item	Description (内容)	Test Method & Condition (测试方法与条件)		Requirement (需求)	
4-1	Contact Resistance (接触阻抗)	EIA-364-23 Subject mated contacts assembled in housing to 20 mV max. open circuit voltage at 100 mA max.		100 mΩ max.	
4-2	Insulation Resistance (绝缘阻抗)	EIA-364-21 Apply a voltage 500 VDC for 1 minute between the adjacent contacts, and between the contacts and ground in the mated connector assemblies..		1000 MΩ min.	
4-3	Dielectric Withstanding Voltage (耐电压)	EIA-364-20 Apply 1000 VAC (rms) for 1 minute between the adjacent contacts, and between the contacts and ground in the mated connector assemblies.		No shorting or other damages Current leakage <1 mA	
5. Mechanical Performance(机械特性)：					
Item	Description (内容)	Test Method & Condition (测试方法与条件)		Requirement (需求)	
5-1	Mating Force and Un-mating Force(卡的插入力和退出力)	EIA-364-13 Mate connector at a rate of 25±6mm per minute.		Mating force:1.0 kgf max Unmating force 0.1 kgf min	
5-2	Normal Force (正向力)	EIA-364-04 Measure normal force at contact point of terminal		Singal: 0.02~0.06kgf Switch: 0.025~0.1kgf	

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Item	Description (内容)	Test Method & Condition (测试方法与条件)	Requirement (需求)	
5-3	Durability (耐久性)	EIA-364-09 Connectors shall be subjected to 10,000 cycles of Insertion and Withdrawal at a maximum rate of 500±50 cycles per hour.	No Physical Damage Contact Resistance: 100 mΩ max.	
5-4	Vibration (振动测试)	EIA-364-28 Subject connector to follow condition: Frequency Range:10~55 Hz Duration: 2 hours for each direction.	No Physical Damage Discontinuity < 1 microsecond Contact Resistance: 100 mΩ max.	
6. Environmental Performance (环境特性) :				
Item	Description (内容)	Test Method & Condition (测试方法与条件)	Requirement (需求)	
6-1	Humidity (耐湿性)	EIA-364-31 Cycle the connector between 40℃±2℃ at 90~95% RH. Perform 96 hours.	No Physical Damage Contact Resistance: 100 mΩ max.	
6-2	Salt Spray (盐雾试验)	EIA 364-26 Test Condition B Mated connector expose to salt spray for 48 hours Temperature: 35±2℃ Salt density: 5 wt. %	No Physical Damage Contact Resistance: 100 mΩ max.	
6-3	Solder ability (着锡性)	EIA-364-52 Solder temperature: 245±5℃ Immersion period: 5±0.5 sec.	No damage. Minimum: 95 % of immersed area.	
6-4	Resistance to Soldering Heat (附着耐热性)	EIA-364-56 Dip connector terminal tails in solder: Solder Duration:5±0.5 seconds; Solder temperature:260±5℃	Visual: No Damage or discoloration of connector materials.	
6-5	Thermal Shock (冷热冲击)	EIA-364-32 Test Condition I Subject mated connectors to 5 cycles between - 25℃ and + 85℃	No Physical Damage Contact Resistance: 100 mΩ max	

7. Product Qualification And Requalification Test Sequence

Test or Examination	Test Group					
	A	B	C	D	E	F
	Test Sequence					
Visual Examination	1, 14	1, 5	1, 5	1, 5	1, 3	1, 4
Contact Resistance	2, 11	2, 4	2, 4	2, 4		
Insulation Resistance	3, 12					
Dielectric Withstanding Voltage	4, 13					
mating Force	5, 9					
unmating Force	6, 8					
Normal force						2
Durability	7					
Vibration				3		
Humidity	10					
Solderability					2	
Resistance to Soldering Heat						3
Thermal Shock		3				
Salt Spray			3			

Note:

- (a). Numbers indicate sequence in which tests are performed.
- (b) discontinuities shall not take place in this test group , during tests

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