

LEOCO CORPORATION		PRODUCTION SPECIFICATION	No.	S-07-1252-1
* 1252 SERIES CONNECTOR *				
This product specification contains the test method, the general performance and requirements for interconnection systems connector with 1252 series header, housing and terminal.				
<p>1. Construction and dimensions shall be in accordance with the referenced drawings. 产品结构 and 尺寸依据所提的产品图面</p> <p>2. Characteristics 特性: Current rating 额定电流: 1A AC,DC Voltage rating 额定电压 : 125V AC,DC Temperature range 额定温度: -25°C ~ +85°C Applicable wire 适用的线: conductor construction size #26 ~ #30</p> <p>3. Electrical performance 电气特性:</p>				
Item 项目	Description 内容	Test Method & Condition 测试方法及条件	Requirement 标准要求	
3-1	Contact Resistance 接触阻抗	It should be tested in accordance with method 103, condition A of EIA-364-23 Test current: 10mA(DC) Open voltage: 20mV(max.)	Initial: 30 mΩ (max.)	
3-2	Insulation Resistance 绝缘电阻	It should be. tested in accordance with method 302 condition B of EIA-364-21 When the DC 500V rms applied between adjacent contacts.	Initial: 500 MΩ (min.)	
3-3	Dielectric withstanding Voltage 耐电压	Unmated connector shall be tested in accordance with method 301 of EIA-364-20 When the AC 500V rms for one minute applied between adjacent contacts.	Neither evidence of breakdown nor flashover	
4. Mechanical Performance 机械特性 :				
Item 项目	Description 内容	Test Method & Condition 测试方法及条件	Requirement 标准要求	
4-1	Terminal crimp strength 铆合张力强度	Pulling load shall be applied between correctly crimped terminal and wire at a constant speed of : 25 mm/minute.	AWG #26: 1.5kgf min. AWG #28: 1.0kgf min. AWG #30: 0.8kgf min.	
4-2	Mating and Unmating Force 插拔力	Insert and withdraw connectors at the speed rate of 25 ± 3mm/minute.	Refer to paragraph 6	
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.	0.5Kgf Max.	
4-4	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.	0.5Kgf min.	

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4-5	Post retention Force 保持力	The end of a post shall be pushed in a perpendicular to base at a constant speed of 25mm/minute.	0.5Kgf min.	
4-6	Durability 耐久性	It should be tested in accordance with method 103,condition A of EIA-364-09. Connector shall be subjected to 100 cycles Of insertion and withdrawal.	No defects. Contact resistance shall be 60 mΩ max.	
4-7	Vibration 振动性	The connector mated PCB shall be vibrated in accordance with method EIA-364-28. There shall be no current discontinuity longer than 1 microsecond during the test. Frequency:10~55~10 Hz/min. Amplitude: 1.52mm Period: 2 hours for each direction.	No evidence of loosening of parts or electric discontinuity. Contact resistance: 60 mΩ max.	
5. Environmental Performance 环境特性:				
5-1	Humidity 耐湿性	The unmated connector shall be tested in accordance with method EIA-364-31. Temperature:40±2℃ Humidity:90-95% (RH), Period:96hours	Neither evidence of breakdown nor flashover on dielectric withstanding voltage test Contact resistance:60 mΩ max. Insulation resistance:50 MΩ min.	
5-2	Salt Spray 盐雾测试	connector shall be tested in accordance with method EIA-364-26 Temperature:35±2℃ Density: 5% in weight. Period:24 hours	No damage Contact resistance: 60 mΩ max.	
5-3	Solderability 可焊性	Connector termination ends shall be checked for solder ability in accordance with method EIA-364-252 Solder temperature:245±5℃ Immersion period:5±0.5sec.	No damage Minimum:95% of immersed area.	
5-4	Resistance to soldering heat 耐高温焊接	Specimen shall be mounted on PCB. Solder temperature:255±5℃ Solder temperature:280±5℃ (high-temperature) Immersion period:5±0.5sec.	neither damage nor deformation.	

6. 1252 Series Mating force and unmating force(single row):

Unit: Kgf

Number of Circuits	Mating Force	Unmating Force
	At nitial(max.)	At initial (min.)
single	0.3	0.03
2	2.0	0.5
3	2.5	0.55
4	3.0	0.60
5	3.5	0.65
6	4.0	0.70
7	4.5	0.75
8	5.0	0.80
9	5.5	0.85
10	6.0	0.90
11	6.5	0.95
12	7.0	1.00
13	7.5	1.05
14	8.0	1.10
15	8.5	1.15

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