

LEOCO CORPORATION		PRODUCTION SPECIFICATION		No.	S-16-1289-1
* 1289 CF CARD CONNECTOR *					
This product specification contains the test method, the general performance and requirements for the 1289 CF CARD Connector					
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)					
2. Characteristics (特性)					
Current rating (额定电流) : 0.5A					
Voltage rating (额定电压) : 500V AC					
Temperature rating (额定温度) : -20°C ~ +60°C					
3. Electrical performance (电气特性)					
Item 项目	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 EIA-364-23A		40 mΩ MAX.	
3-2	Insulation Resistance 绝缘抵抗	It should be tested in accordance with method EIA-364-21A		After test 100 MΩ min.	
3-3	Dielectric Withstanding Voltage 耐电压	Unmated connector shall be tested in accordance with method EIA-364-20A when apply 500V AC(rms) for 1 minute between adjacent terminal or ground.		No Breakdown	
4. Mechanical Performance (机械特性)					
Item 项目	Description (内容)	Test Method & Condition (测试方法与条件)		Requirement (需求)	
4-1	Terminal Retention Force 保持力	Push the terminal from insulator base at speed 25±3 mm per minute (EIA-364-29A)		0.5Kgf min.	
4-2	Insertion Forces 插入力	The force required to insert and withdraw (male to female) speed: 25±3 mm /minute. (EIA-364-13A)		2.9Kgf MAX	
4-3	Extraction Forces 拔出力	The force required to insert and withdraw (male to female) speed: 25±3 mm /minute. (EIA-364-13A)		2.5Kgf MAX 0.5Kgf MIN	
4-4	Durability 耐久性	Office environment(EIA-364-09B) Mate and unmate the connector for a total of 10000 cycles		Contact Resistance: 20 mΩ MAX. (change from initial)	

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5. Environmental Performance and others (环境特性和其他)				
Item 项目	Description (内容)	Test Method & Condition (测试方法与条件)	Requirement (需求)	
5-1	Salt Spray 盐雾	Connector shall be tested in accordance with method EIA-364-26 Temperature: 35±2°C Density : 5% in weight Period: 48 hours	Appearance: No Damage Contact Resistance: 40 milliohm MAX	
5-2	Heat Resistance 耐热测试	Temperature : 85±2°C Duration : 96 hours	Appearance: No Damage Contact Resistance: 40 milliohm MAX	
5-3	Thermal shock 冷热冲击性	Temperature : -55°C to +85°C 5 cycles (1 cycle=1 hours)	Appearance: No Damage Contact Resistance: 20 mΩ MAX. (change from initial)	
5-4	Humidity 恒温恒湿	Temperature : 40±2°C Relative Humidity : 90~95% Duration : 96 hours (EIA-364-31A)	Appearance: No Damage Contact Resistance: 40 milliohm MAX Discontinuity: Must meet 4-1-3 Insulation Resistance: 100 Megohm MIN.	
5-5	Solder ability 可焊性测试	Soldering Time : 3~10 sec. Solder Temperature : 260±5 °C (Comply with method EIA-364-52) Solder time: 5±0.5 seconds.	Solder Wetting:95%of immersed area must show no voids, pin holes.	
5-6	Resistance to Soldering Heat 耐焊锡热测试	Reflow soldering method Pre-heat:150-200°C Peak temp : 260 +0/-10°C Solder duration:10±0.5 seconds;	Appearance :No physical damage	

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Recommended IR Reflow Profile(Lead-free)			
<p>The graph shows a reflow profile starting at 0°C, ramping up to 150°C (point 2), holding at 150°C (point 2), ramping up to a peak of 260°C (point 5), holding at the peak (point 5), and then ramping down (point 6). The y-axis is temperature in °C (0-300) and the x-axis is time.</p>			
1	Average ramp rate	3°C per second max.	
2	Pre-heat temp.(minimum)	150°C	
	Pre-heat temp.(maximum)	200°C	
	Pre-heat time	60 to 120 seconds	
3	Ramp to peak	3°C per second max.	
4	Time over liquidus(217°C)	60 to 150 seconds	
5	Peak temp.	260 ±0/-10°C	
	Time within 5°C of peak	10 seconds max.	
6	Ramp- cool down	6°C per second max.	
	Time 25°C to peak	8 minutes max.	

6. Product Qualification Test Sequence 检测顺序

Test Item 项目		Test Group									
		A	B	C	D	E	F	G	H	I	J
1	Contact Resistance 接触阻抗	1,3	1,4	1,4		1,5			1,5	1,5	
2	Insulation Resistance 绝缘阻抗		2,5	2,5		2,6			2,6	2,6	
3	Dielectric Withstanding Voltage 耐电压					3,7			3,7	3,7	
4	Insertion and Withdrawal Force 插拔力	2									
5	Salt spray 盐雾测试		3								
6	Heat Resistance 耐热测试			3							
7	Terminal Retention Force 端子保持力				1						
8	Vibration 振动测试					4					
9	Solder ability 可焊性测试						1				
10	Resistance to soldering Heat 耐焊接热							1			
11	Durability 耐久性								4		
12	Thermal shock 冷热冲击性									4	

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