

LEOCO CORPORATION	PRODUCTION SPECIFICATION	No.	S-18-2871	Rev.	1
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* 2871 Series Connector *

This product specification contains the test method, the general performance and requirements for interconnection system connector. With 2871 series socket ,terminal and wafer.

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

产品结构 and 尺寸依据所提供的产品图面.

2. Characteristics 特性:

Current rating 额定电流: 3A AC,DC

Voltage rating 额定电压: 250V AC,DC

Temperature rating 额定温度: -25°C ~ +85 °C

Applicable wire 适用线材: conductor construction size #22 ~ #28

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 EIA-364-23	20 mΩ max.
3-2	Insulation Resistance 绝缘阻抗	It should be tested in accordance with Method EIA-364-21	1000MΩ min.
3-3	Dielectric Withstanding Voltage 耐电压	Unmated connectors shall be tested in Accordance with method EIA-364-20 when the AC 1500 V rms for one minute applied between adjacent contacts.	No break Down 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	Crimp Tensile Strength 铆合张力强度	Pulling load shall be applied between Correctly crimped contact and wire at a constant speed. Pulling speed: 25 mm / minute.	AWG #22: 4.0 kgf min. AWG #24: 2.5 kgf min. AWG #26: 1.5 kgf min. AWG #28: 1.0 kgf min.
4-2	Contact Insertion Force 接触插入力	The force required to insert a contact into a housing. Inserting speed: 25 mm / minute.	1.0kgf max.
4-3	Contact removal Force 接触拨出力	Crimped contact mounted in a housing shall be pulled in an alignment at a constant speed of 25 mm / minute.	1.5 Kgf min.
4-4	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.	1.0 kgf min.
4-5	Insertion Force 插入力	Housing with contact mating header at a constant speed of 25 mm / minute.	See parameters 6
4-6	Withdrawal Force 拨出力	Housing with contact mating header, Pull out from header at speed 25 mm / minute.	See parameters 6

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Item	Description 内容	Test Method & Condition 测试方法与条件	Requirement 需 求			
4-7	Durability 耐久性	It should be tested in accordance with method EIA-364-09. Connector shall be subjected to 100 cycles of insertion and withdrawal	No defects. Contact resistance shall be 20mΩ max			
4-8	Vibration 振动性	The socket 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 less than twice of initial.			
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 EIA-364-31. Temperature: 40±2 °C Humidity: 90 ~ 95 % (RH) Period: 96 hours.	NO damage. Contact resistance less Than twice of initial. Insulation resistance: to paragraph 3-2. Dielectric withstanding voltage: to paragraph 3-3			
5-2	Thermal Shock 热冲击测试	one cycle consists of: -25°C for 30 minutes. +85°C for 30 minutes. Times of cycle: 5 cycle.	No damage. Contact resistance less than twice of initial Insulation resistance :to paragraph.3-2. Dielectric withstanding voltage :to paragraph 3-3.			
5-3	Salt Spray 盐雾试验	Connector shall be tested in accordance with method EIA-364-26 Temperature: 35±2 °C Density: 5 % in weight. Period: 24 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 EIA-364-52. 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 PCB. Solder temperature:260±5°C Immersion period:5±0.5sec.	No damage and deformation.			

6.Mating and Unmating Force 插入力和拔出力:

PIN.No	Mating Force (Kgf max)	Unmating Force (Kgf min)	PIN.No	Mating Force (Kgf max)	Unmating Force (Kgf min)
1	0.50	0.10	2*17	5.30	3.40
2*2	0.80	0.30	2*18	5.60	3.60
2*3	1.10	0.50	2*19	5.90	3.80
2*4	1.40	0.70	2*20	6.20	4.00
2*5	1.70	0.90	2*21	6.50	4.20
2*6	2.00	1.10	2*22	6.80	4.40
2*7	2.30	1.30	2*23	7.10	4.60
2*8	2.60	1.50	2*24	7.40	4.80
2*9	2.90	1.70	2*25	7.70	5.00
2*10	3.20	1.90	2*26	8.00	5.20
2*11	3.50	2.10	2*27	8.30	5.40
2*12	3.80	2.30	2*28	8.70	5.60
2*13	4.10	2.50	2*29	9.00	5.80
2*14	4.40	2.70	2*30	9.30	6.00
2*15	4.70	2.90	2*31	9.60	6.20
2*16	5.00	3.10	2*32	9.90	6.40

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