

LEOCO CORPORATION	PRODUCTION SPECIFICATION	No.	S-17-2029-1
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* 2029 SERIES CONNECTOR *

This product specification contains the test method, the general performance and requirements for 2029 series 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: 3A AC/DC
Voltage rating 额定电压 : 250V AC/DC
Temperature rating 额定温度: -25°C ~ +105°C
3. Electrical performance 电气特性:

ITEM 项目	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法及条件	REQUIREMENT 要求
3-1	Contact Resistance 接触阻抗	It should be tested in accordance with method EIA-364-23	Initial : 20 mΩ max.
3-2	Insulation Resistance 绝缘电阻	It should be. tested in accordance with method EIA-364-21	Initial : 1000 MΩ min.
3-3	Dielectric withstanding Voltage 耐电压	Unmated connector shall be tested in accordance with method EIA-364-20 When the AC 800V 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 METHOD & CONDITION 测试方法及条件	REQUIREMENT 要求
4-1	Insertion force 插入力	Housing with contact mating header, at a constant speed of 25mm/minute. Test method:EIA-364-13	Refer to paragraph 3
4-2	Withdrawal force 拔出力	Housing with contact unmating header, Pull out from header at speed 25mm/minute. Test method:EIA-364-13	Refer to paragraph 3
4-3	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 25mm/minute. Test method:EIA-364-05	1.0kgf min.
4-4	Durability 耐久性	It should be tested in accordance with method EIA-364-09 Connector shall be subjected to 50 cycles Of insertion and withdrawal.	No defects. Contact resistance shall be 40 mΩ max.

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4-5	Vibration 振动性	The connector mated PCB shall be vibrated in accordance with method EIA-364-28 tested 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:				
5-1	Humidity 耐湿性	The unmated connector shall be tested in accordance with method EIA-364-31 test procedure type I condition B. Temperature:40±2℃ Humidity:90-95% (RH), Period:240 hours Test method:EIA-364-31	No damage. Contact resistance: Less than twice of Initial. Insulation resistance: 1000MΩ Min Dielectric withstanding voltage: 800V r.m.s.,1 minute. Contact resistance: 40 mΩ max.	
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:8 hours	No damage Contact resistance: Less than twice of initial.	
5-3	Solder ability 着锡性	Connector termination ends shall be checked for solder ability in accordance with method EIA-364-52 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℃ Immersion period:5±0.5sec.	No damage and deformation.	

6. Insertion force and Withdrawal force 插拔力:

Unit:Kgf

Number of Circuits	Insertion force	Withdrawal force
	Initial(max.)	Initial (min.)
2	0.8	0.2
3	1.2	0.3
4	1.6	0.4
5	2.0	0.5
6	2.4	0.6
7	2.8	0.7
8	3.2	0.8
9	3.6	0.9
10	4.0	1.0
11	4.4	1.1
12	4.8	1.2
13	5.2	1.3
14	5.6	1.4
15	6.0	1.5
16	6.4	1.6

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