

\* 1510 Series Connector \*

This product specification contains the test method, the general performance and requirements for interconnection system connector.

With 1510 series socket & crimp terminal.

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: 1A 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 #26 ~ #30

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 EIA-364-23.	20 mΩ max.
3-2	Insulation Resistance 绝缘阻抗	DC 500V shall be applied between outer surface of housing and terminal and between adjacent terminals to measure insulation resistance. (EIA-364-21)	500MΩ min.
3-3	Dielectric Withstanding Voltage 耐电压	Initially AC 500V(rms) and after humidity and thermal shock tests AC 250V (rms) shall be applied between outer surface of housing and terminal and between adjacent terminal for one minutes. (EIA-364-20)	No evidence of 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 #26: 1.5kgf min. AWG #28: 1.0kgf min. AWG #30: 0.8kgf 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.	1.50kgf 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.	0.70 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. EIA-364-29	0.70 kgf min.
4-6	Insertion Force 插入力	Housing with contact mating header at a constant speed of 25 mm / minute. EIA-364-13	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	Withdrawal Force 拨出力	Housing with contact mating header, Pull out from header at speed 25 mm / minute. EIA-364-13		See parameters 6			
4-8	Durability 耐久性	It should be tested in accordance with EIA-364-09 Connector shall be subjected to 100 cycles of insertion and withdrawal		No defects. Change of contact resistance after test: 20mΩ max			
4-9	Vibration 振动性	The socket mated PCB shall be vibrated in accordance with EIA-364-28 test condition III. 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 EIA-364-31 method II test condition A Temperature: 40±2 °C Humidity: 90 ~ 95 % (RH) Period: 96 hours continuously.		NO damage. Contact resistance less Than twice of initial. Insulation resistance: to pass para. 3-2. Dielectric withstanding voltage: to pass para 3-3			
5-2	Thermal Shock 热冲击测试	Connector shall be subjected to thermal shock cycling in accordance with EIA-364-32. one cycle consists of:-25°C for 30 minutes. +105°C for 30 minutes. Times of cycle:25 cycle.		No damage. Contact resistance less than twice of initial Insulation resistance :to pass para.3-2. Dielectric withstanding voltage :to pass para 3-3.			
5-3	Salt Spray 盐雾试验	Connector shall be tested in accordance with EIA-364-26 test condition B. Temperature: 35±2 °C Density: 5 % in weight. Period: 24 hours.		NO damage. Contact resistance less than twice of initial.			

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Item	Description 内容	Test Method & Condition 测试方法与条件		Requirement 需求			
5-4	Solderability 着锡性	Connector termination ends shall be checked for solderability in accordance with EIA-364-52 Solder temperature: 245±5 °C Immersion period: 5±1 sec.		NO damage. Minimum: 95 % of immersed area.			
5-5	Resistance to Soldering Heat 附着耐热性	Specimen shall be mounted on PCB. Solder temperature: 260±5 °C Immersion period: 5±1 sec. EIA-364-56		NO damage and deformation.			

6. Mating force and unmating force 插拔力:

Unit :Kgf

Number of Circuits	At initial	
	I.F.(max.)	W.F.(min.)
Single	1.00kg	0.09 kg
2	2.50kg	0.18 kg
3	2.80 kg	0.27 kg
4	3.60 kg	0.36 kg
5	4.40 kg	0.45 kg
6	5.20 kg	0.54 kg
7	6.00 kg	0.63 kg
8	6.80 kg	0.72 kg
9	7.60 kg	0.81 kg
10	8.40 kg	0.90 kg
11	9.20 kg	0.99 kg
12	10.00 kg	1.08 kg
13	10.80 kg	1.17 kg
14	11.60 kg	1.26 kg
15	12.40 kg	1.35 kg

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