

* 1010 Series And 1020 Series Connector *

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

With 1010,1020 series header, 1010 ,1020 series housing and 1010 series terminal.

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

产品结构及尺寸依据所提供的图面。

2. Characteristics 特性:

Current rating 额定电流: 1 A AC,DC

Voltage rating 额定电压: 50V AC,DC

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

Applicable wire 适用的线: conductor construction size #28 ~ #32

3. Electrical performance 电气性能:

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-364-23	Initial: 20 mΩ max. After environmental Test: 30 mΩ max.
3-2	Insulation Resistance 绝缘阻抗	It should be tested in accordance with Method EIA-364-21.	Initial: 100 MΩ min. After humidity test 50 MΩ min.
3-3	Dielectric Withstanding Voltage 耐电压	Unmated connectors shall be tested in accordance with method EIA-364-20 when the AC 1000 V rms for one minute applied between adjacent contacts.	No evidence of break-down and flashover

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	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 #28: 1.0kgf min. AWG #30: 0.5kgf min. AWG #32: 0.4kgf min.
4-2	Insertion force 插入力	Housing with contact mating header at a constant speed of 25 mm / minute.	0.8kgf max.
4-3	Withdrawal force 拔出力	Contact inserted in a housing shall be pulled in an axis at a constant speed of 25 mm /minute.	At initial: 0.08 kgf min. At 30th: 0.06 kgf min.
4-4	contact retention Force terminal 保持力	The crimped terminal in a housing shall be pulled in a perpendicular at a constant speed of 20mm/minute.	0.5 kgf min.

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ITEM 项目	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件	REQUIREMENT 需求
4-5	Pin retention Force pin 保持力	Apply axial push force at the speed rate of 25mm/minute.	0.3 kgf min.
4-6	Durability 耐久性	It should be tested in accordance with method EIA-364-09. Connector shall be subjected to 30 cycles of insertion and withdraw	No defects. Contact resistance shall be 20 mΩ max.
4-7	Vibration 振动性	The connector mated PCB shall be vibrated in accordance with method EIA-364-28 tested condition B. 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: 30 mΩ max.

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 test procedure type I condition B. 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 withstand ing voltage: to paragraph 3-3
5-2	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.
5-3	Solderability 着锡性	Connector termination ends shall be checked for solderadility 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.
5-4	Resistance to Soldering Heat 耐高温焊接	Specimen shall be mounted on PCB. Solder temperature: 255±5 °C Immersion period: 5±0.5 sec.	NO damage and deformation.

ITEM	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件	REQUIREMENT 需求
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6. 1010 Series Mating force and unmating force(single row):

Unit: Kgf

Number of Circuits	Mating Force	Unmating Force	
	At nitial(max.)	At initial (min.)	At 30 th(min.)
single	0.80kg	0.08kg	0.06kg
2	2.00kg	0.16kg	0.12kg
3	2.00kg	0.20kg	0.18kg
4	2.00kg	0.20kg	0.18kg
5	3.00kg	0.30kg	0.30kg
6	3.00kg	0.30kg	0.30kg
7	3.00kg	0.30kg	0.30kg
8	4.00kg	0.40kg	0.40kg
9	4.00kg	0.40kg	0.40kg
10	4.00kg	0.40kg	0.40kg
11	5.00kg	0.50kg	0.50kg
12	6.00kg	0.50kg	0.50kg
13	6.00kg	0.50kg	0.50kg
14	6.00kg	0.60kg	0.60kg
15	6.00kg	0.60kg	0.60kg
16	6.00kg	0.60kg	0.60kg
17	8.00kg	0.80kg	0.80kg
18	8.00kg	0.80kg	0.80kg
19	8.00kg	0.80kg	0.80kg
20	8.00kg	0.80kg	0.80kg

1020 Series Mating force and unmating force(Dual row):

Unit: Kgf

Number of Circuits	Mating Force	Unmating Force	
	At nitial(max.)	At initial (min.)	At 30 th(min.)
2x5	4.00	0.40	0.35
2x6	5.00	0.50	0.40
2x7	5.00	0.60	0.50
2x8	5.00	0.70	0.60
2x9	5.00	0.70	0.70
2x10	5.00	0.80	0.80

ITEM	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件	REQUIREMENT 需求
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Number of Circuits	Mating Force	Unmating Force	
	At nitial(max.)	At initial (min.)	At 30 th(min.)
2x12	6.50	0.80	0.80
2x15	8.00	1.20	1.20
2x20	10.00	1.50	1.50
2x25	12.00	1.50	1.50
2x12	6.50	0.80	0.80
2x15	8.00	1.20	1.20

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