

* 2520 Series and 2521 Series Connector *

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

With 2520 series socket and mates with 2521 series header and 2593 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: 3.0 A AC,DC

Voltage rating 额定电压: 250V AC,DC

Temperature rating 额定温度: -40°C ~ +105°C

Applicable wire 适用的线: conductor construction size #22 ~ #28

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: 10 mΩ max. After environmental Test: 20 mΩ max.
3-2	Insulation Resistance 绝缘阻抗	It should be tested in accordance with Method EIA-364-21.	Initial: 1000 MΩ min. After humidity test 500 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 #22: 6.3 kgf min. AWG #24: 4.5 kgf min. AWG #26: 2.7 kgf min. AWG #28: 1.5 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.	1.2kgf 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.	2.0Kgf 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.	1.5 kgf min.
4-5	Insertion Force 插入力	Housing with contact mating header at a constant speed of 25 mm / minute.	0.7kgf max.
4-6	Withdrawal Force 拨出力	Housing with contact mating header, Pull out from header at speed 25 mm /minute.	0.15kgf min.

LEOCO CORPORATION		PRODUCTION SPECIFICATION	No.	S-96-2520	REV	1-7
ITEM 项目	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件	REQUIREMENT 需求			
4-7	Mating and unmating force 插拔力	Housing with contact & header shall be mated and unmated on a same axis. it should be tested in accordance with method EIA-364-13 at a constand speed of 25mm/minutes.	See parameters 6			
4-8	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 20 mΩ max.			
4-9	Vibration 振动性	The socket mated header shall be vibrated in accordance with method EIA-364-28 test 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 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 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: 48 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 Solder temperature: 260±5 °C (High-temperature materials) Immersion period: 5±0.5 sec.	NO damage. Minimum: 95 % of immersed area.

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ITEM	DESCRIPTION 内容	TEST METHOD & CONDITION 测试方法与条件		REQUIREMENT 需求			
5-4	Resistance to Soldering Heat 耐高温焊接	Specimen shall be mounted on PCB. Solder temperature: 260±5 °C Solder temperature:280±5°C (High-temperature materials) Immersion period: 5±0.5 sec.		NO damage and deformation.			
5-5	Cold 冷却实验	It should be tested in accordance with method 11233 of CNS. temperature:-25±3 °C Period:96hours		NO damage. Contact resistance less than twice of initial			
5-6	Dry Heat 加热干燥测试	It should be tested in accordance with method 3634 of CNS. temperature:+85±2 °C Period:96hours		NO damage. Contact resistance less than twice of initial			

6. Mating force and unmating force:

Unit:Kgf

Number of Circuits	Mating Force	Unmating Force(min.)	
	Initial(max.)	Initial	60th
2	2.50	0.80	0.60
3	3.00	1.00	0.70
4	3.50	1.20	0.70
5	4.00	1.20	0.90
6	4.50	1.40	1.00
7	5.00	1.40	1.00
8	5.50	1.60	1.20
9	6.00	1.60	1.20
10	6.50	1.80	1.40
11	7.00	1.80	1.40
12	7.50	2.00	1.60
13	7.50	2.00	1.60
14	8.50	2.20	1.90
15	8.50	2.40	2.00
16	9.00	2.60	2.00
17	9.00	2.60	2.20
18	9.50	2.80	2.20
19	9.50	2.80	2.40
20	10.00	3.00	2.40

APPR BY: TONY

CHKD BY: CHARD

SPEC BY:Joyce 2014-05-16