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	Date Issued	2024-08-19	Prepared by	Shanzha
	Date revised	2024-08-19	checked by	Sangshen
Product Specification	Rev. No.	01	Approved by	Willy
Title SLIDE SWITCH 拨动开关				

1. SCOPE (适用范围)

This specification covers the performance, tests and quality requirements for the SLIDE SWITCH.

本规范涵盖了盖拨动开关的性能、测试和质量要求。)

2. PRODUCT DESCRIPTION (产品描述)

DESCRIPTION (描述)	Part Number (料号)
拨动开关,立式三档,8脚插件	SS-3336D-02-L1

3. APPLICABLE DOCUMENT (适用文件)

The following documents form a part of this specification to the extent specified herein. In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence. (

下列文件构成本规范的一部分，在此规定的范围内。本规范要求与产品图纸有冲突时，以产品图纸为准。如果本规范的要求与参考文件发生冲突，应以本规范为准。)

4. REQUIREMENTS (要求)

4.1. Design and Structure (设计和结构)

Product shall be of the design, structure and physical dimensions specified on the applicable product drawing. (产品的设计、结构和物理尺寸参考所适用的产品图纸)

4.2. Materials/ Finish (材料/表面处理)

Materials used in the structure of product shall be as specified on the applicable product drawing. (产品结构中使用的材料参考所适用的产品图纸)

4.3. Ratings (额定功率)

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Item (项目)	Standard (标准)
Rated Voltage (Maximum)额定电压	12V DC
Rated Current (Maximum)额定电流	50mA
Operating temperature range工作温度范围	-20 ~+70 From -20 to +70 degree centigrade
Storage Temperature Range储存温度范围	-40 ~+85 From -40 to +85 degree centigrade

5. TEST STANDARD (测试条件)

5.1 Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows (除另有说明外,用以进行测量和测试的标准环境条件范围如下)

Ambient temperature (环境温度): 5 to 35

Normal humidity (正常湿度): 45% to 85%

Air pressure (气压): 86Kpa to 106Kpa

5.2 However if doubt arises on the decision based on the measured Values under the above-mentioned Conditions.The following conditions shall be employed: (但是在对判定产生疑问时,按下述状态实施)

Temperature (温度): 20±2

Relative humidity (相对湿度): 65±5%

Air pressure (气压): 86Kpa to 106Kpa

6. FUNCTION (接触型式): 2P3T

7. TIMING (切换类型): SHORTING

8. PERFORMANCE AND TEST DESCRIPTION (性能和测试类型)

8.1 APPEARANCE (外观)

ITEM	DESCRIPTION 类型	TEST CONDITION	REQUIREMENT
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1	Appearance 观	Visual. (目视)	Should not have any flaw Scratch discoloration and crushed (无任何裂痕、刮伤、 污染和变形)
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8.2 ELECTRICAL (电气)

ITEM	DESCRIPTION 类型	TEST CONDITION	REQUIREMENT
2	Contact Resistance	1000Hz Measuerd at small current (100mA or less)1000Hz 在小电流(100毫安或以下)1000赫兹测试	50 mΩ Max.
3	Insulation Resistance	After 500 VDC for 1 minute, measure the insulation resistance between the adjacent contacts of mated and unmated connector assemblies. (使用 500 V交流電測試1分鐘，測量相邻两端的绝缘 电阻)	100MΩ MIN.
4	Dielectric strength	AC500V(50-60HZ,0.5mA current) being applied between all the adjacent terminals and between the terminal and frame for 1 minute (500VAC(50-60 1 0.5mA	There shall be no breakdown. ()

8.3 MECHANICAL (机械)

ITEM	DESCRIPTION 类型	TEST CONDITION	REQUIREMENT
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5	Operating force	Place the switch such that the direction of switch operation is vertical and then gradually increase the load applied to the center of the stem, the maximum load required for the stem to come to a stop shall be measured. (开关的动作方向为垂直放置开关向推柄中心逐渐地增加负荷直到推柄停止时所测量的最大负荷)	200gf±100gf
6	Terminal strength 端子强度	A static load of 300gf shall be applied To the terminal for 15 sec in any direction. (在排脚前端任意一个方向加 300gf 力度测试, 时间为15秒)	Electrical characteristics shall be satisfied without damage or excessive looseness of terminals. (在排脚中没有裂开, 松动等异常, 满足于机械、电器性能)
7	Displacement of actuator (knob) 推柄强度	Fixed switch so that the switch is perpendicular to the direction of operation and exerts 1 kgf force in the opposite direction of the push handle action. (固定开关, 使开关与操作方向垂直, 以推柄动作方向反方向施加1Kgf力)	The handle is not seriously deformed and can work normally. (柄部无严重变形, 可以正常工作)
8	LIFE TEST 寿命试验	Endurance without loading: A switch shall be subjected to 10,000 cycles at a speed of 15 to 18 cycles per minute without loading. (无负荷: 在无负荷的条件下以每分钟 15~18 回的速度进行 10,000 次的测试)	(1) Contact Resistance (接触电阻): 90mΩMAX. (2) Insulation resistance (绝缘电阻): 100M Ω MIN. (3) Dielectric strength (耐电压): AC 500V, 1 minute. (4) Operating force (作动力): 200gf±100gf (5) Without damage to parts arcing or breakdown etc. (测试后外表无损伤, 并且满足机械性能)

8.4 ENVIRONMENTAL (环境)

ITEM	DESCRIPTION 类型	TEST CONDITION	REQUIREMENT
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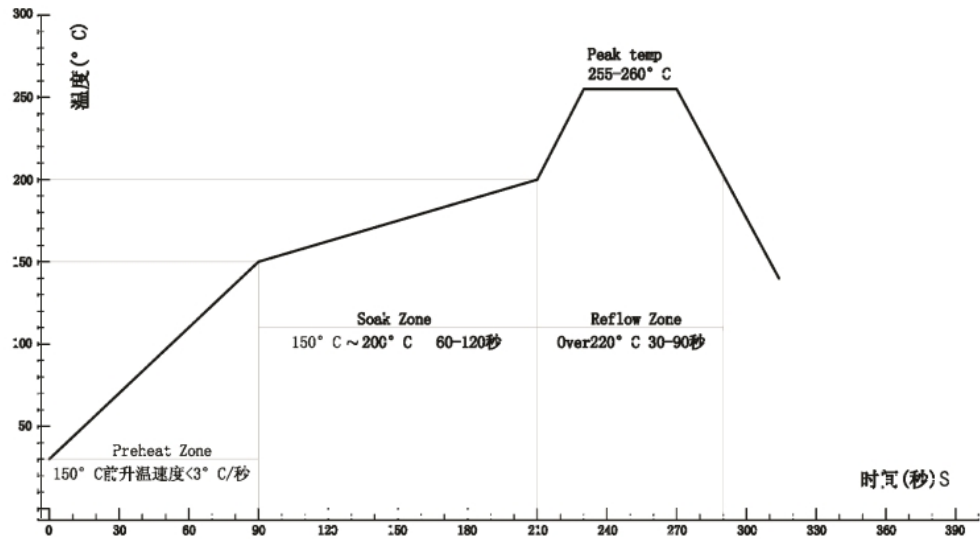
9	Resistance to soldering heat	Solder bath method: solder temperature 260 ± 10 immersion time 2 ± 0.5 sec immersion depth up to the supface of the board thickness of prince ted wiring board 1.6mm dim sions of component holes in the printed wiring board shall being accordance with those specified in this specification 焊炉焊接的时候温度控制在 $260\pm10^{\circ}\text{C}$, 过炉时间 2 ± 0.5 秒, 于(基板)厚度1.6mm	No deformation of the housing. To meet the mechanical and electrical properties 本体无变形, 能满足于机械、电器性能
10	Low Temperature test 低温试验	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements are made: 样品按下列条件进行耐低温试验, 试验后在正常温度和湿度条件下放置 1 小时后测定 (1)Temperature温度: -20 ± 3 (2)Time时间: 96 hours Water drops shall be removed.擦除水珠	No deformation of the housing. To meet the mechanical and electrical properties 本体无变形, 能满足于机械、电器性能
11	Heat Resistance	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements are made: 样品按下列条件进行耐热试验, 试验后在正常温度和湿度条件下放置 1 小时后测定 (1) Temperature温度: 85 ± 2 (2) Time时间: 96 hours	No deformation of the housing. To meet the mechanical and electrical properties 本体无变形, 能满足于机械、电器性能
12	Salt Spray	Based upon EIA-364-26A/MIL-STD-202 Method 101D Cond.B 12 ± 1 hours exposure to a salt spray from the $5\pm1\%$ solution at 35 ± 2 . (在温度 $35\pm2^{\circ}\text{C}$, 盐水浓度 $5\pm1\%$下, 盐水喷雾12 ± 1 小时)	Appearance No Damage Contact Resistance :$90\text{ m}\Omega$ Max.

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13	Moisture Resistance ()	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements are made: 样品按下列条件进行耐潮湿试验, 试验后在正常温度和湿度条件下放置 1 小时后测定 1 Temperature温度: 40±2 2 Relative humidity相对湿度: 90 to 95% 3 Time时间: 96hours Water drops shall be removed. 擦除水珠	No deformation of the housing. To meet the mechanical and electrical properties 本体无变形, 能满足于机械、电器性能
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9. SOLDERING AND CLEANING PROCESSES焊接和清洗：

- 9.1. Keep all switch contacts in their "OFF" position for all operations.
在所有操作过程中，请确保开关在OFF位置
- 9.2. Wave soldering (波峰焊)：DIP Suggestions solder temperature at 260 (500°F) max.5 seconds . DIP型推荐焊接焊锡温度为260 (500°F) 最多5秒
- 9.3. Hand soldering (手焊)：Use a soldering iron of 30 watts controlled at 350 approximately 5 seconds. while applying solder.
使用30W烙铁控制温度在350，焊接时长约5秒
- 9.4. Reflow soldering profile (回炉焊) :When the maximum temperature of the reflow furnace is 260 °C and the temperature is 260 °c. 10 seconds MAX. (reference) SMT型回焊炉最高温度为260，温度为260 时，最长时间不超过10秒 (如图)



10. PACKAGING 包装

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Please refer to the packing drawing. 请参考产品包装图纸

Rev.	Description	Date revised	Created/ Revised by
A0	New Release	2024/08/19	Shanzha