 XB Connectivity	Doc. No.	DSHP-A0162-01	Page No.	2/8
	Date Issued	2020-04-06	Prepared by	Josephine
	Date revised	2020-11-23	checked by	Jay
Product Specification	Rev. No.	01	Approved by	Mei Chen
Title : DIP SWITCH 拨码开关				

Contact rating (开关常切换)	25mA 24V DC
Non-Contact rating (开关不常切换)	0.1A 50V DC
Operating temperature range 工作温度范围	-20°C ~ +70°C From -20 to +70 degree centigrade
Storage Temperature Range 储存温度范围	-30°C ~ +80°C From -40 to +85 degree centigrade

5.0 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°C to 35°C

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°C

Relative humidity (相对湿度): 65±5%

Air pressure (气压): 86Kpa to 106Kpa

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

6.1 APPEARANCE (外观)

ITEM	DESCRIPTION (类型)	TEST CONDITION (测试条件)	REQUIREMENT (要求)
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Doc. No.	DSHP-A0162-01	Page No.	3/8
Date Issued	2020-04-06	Prepared by	Josephine
Date revised	2020-11-23	checked by	Jay
Rev. No.	01	Approved by	Mei Chen

Product Specification**Title : DIP SWITCH 拨码开关**

1	Appearance (外观)	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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6.2 ELECTRICAL (电气)

ITEM	DESCRIPTION (类型)	TEST CONDITION (测试条件)	REQUIREMENT (要求)
2	Contact Resistance 接触电阻 (initial初始值)	To be measure with AC 1KHz±200Hz (Max 20mv,Max 50mA)or 10mA,5V DC (用1千赫兹±200赫兹(在最大电压200m v, 最大电流50mA)或10mA, 5V DC测试)	50 mΩ Max.
	Contact Resistance 接触电阻 (after life test测试后)		100 mΩ Max.
3	Insulation Resistance. (绝缘电阻)	Measurements shall be made following application of 500VDC potential between terminals and between individual terminals and frame for one minute. (在端子与端子之间, 端子与外壳之间施加500V DC, 一分钟, 测量相邻两端的绝缘电阻)	100 MΩ min.
4	Dielectric strength. (耐电压)	AC500V(50-60HZ,1mA current) being applied between all the adjacent terminals and between the terminal and frame for 1 minute (在接触端子或排脚之间输入500V AC(50- 60赫兹)电压1分钟, 感应电流为1mA	There shall be no breakdown. (无击穿、闪烁现象)
5	Capacitance between adjacent switches(极际电容)	To be measured with frequency 1MHz± 10KHz,applied between adjacent terminal and circuit (频率为1MHz±10KHz 适用于相邻排脚和电路)	5PF Max.

 XB Connectivity	Doc. No.	DSHP-A0162-01	Page No.	4/8
	Date Issued	2020-04-06	Prepared by	Josephine
	Date revised	2020-11-23	checked by	Jay
Product Specification	Rev. No.	01	Approved by	Mei Chen
Title : DIP SWITCH 拨码开关				

6.3 MECHANICAL (机械)

ITEM	DESCRIPTION (类型)	TEST CONDITION (测试条件)	REQUIREMENT (要求)
6	Operation force (操作力)	<p>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.</p> <p>(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)</p>	8N Max.
7	Terminal strength (端子强度)	<p>A static load of 500gf shall be applied To the terminal for 1 minute in any direction. (在排脚前端任意一个方向加500gf 力度测试, 时间为1分钟)</p>	<p>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)</p>
8	Operation life with No load (无负载下的运动寿命)	<p>3000 cycle operation at a rate of 15~20 cycle/minute (15~20回/分钟 寿命最少为3000次)</p>	<p>Contact resistance(接触电阻): Max 100mΩ Insulation resistance (绝缘电阻): Min 1000mΩ with DC 500V Operating force±30%gf before test No.4.1 shall Be satisfied.There shall be no defects in appearance or in the mechanical functions . (动作力的变化范围在初始值的±30%以内, 满足6. 1. 2项无论是在外观上还是在机械功能上, 都不得有任何缺陷)</p>
	Operation life with load (负载下的运动寿命)	<p>24VDC 25mA 3000 cycle operation at arate of 15~20 cycle/minute (在DC24V 25mA条件下, 以15~20回/分钟, 寿命最小3000次)</p>	

 XB Connectivity	Doc. No.	DSHP-A0162-01	Page No.	5/8
	Date Issued	2020-04-06	Prepared by	Josephine
	Date revised	2020-11-23	checked by	Jay
Product Specification	Rev. No.	01	Approved by	Mei Chen
Title : DIP SWITCH 拨码开关				

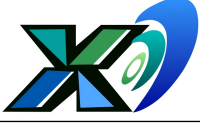
9	Vibration (振动)	Amplitude (全振幅): 1.5 mm Sweep rate (扫描速度): 10-55-10HZ for 1 minute Sweep method (扫描方式): Logarithmic frequency sweeprate (对数频率扫描速度) Vibration direction(振动方向): X, Y, Z (3 directions 3个方向) Time(时间) : Each direction 2 hours (每个方向2 个小时)(Total 6hours 共6 小时)	1Kgf
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6.4 ENVIRONMENTAL (环境)

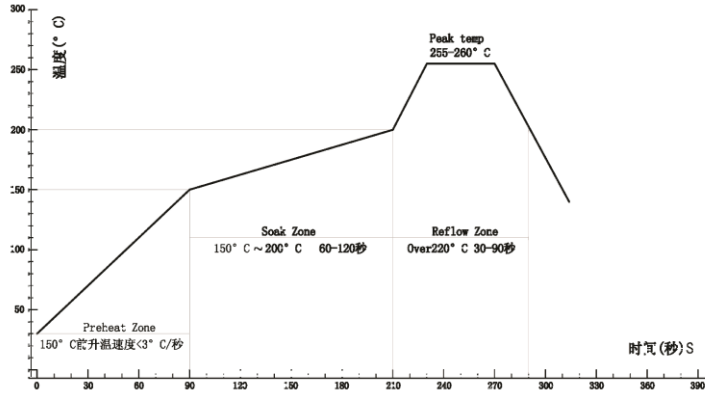
ITEM	DESCRIPTION (类型)	TEST CONDITION (测试条件)	REQUIREMENT (要求)
10	Solder ability (可焊性)	Test temperature:245±5°C Test time :5sec During test,the stick detect temperature in the oven.Then switch terminal soak in the oven.It put 2min under normal temperature after testing. 试验温度: 245±5°C 试验时间: 5s; 试验时以测温棒侦测锡炉温度; 开关端子浸入与焊锡接触, 在时间内 f 取出; 测试后再常温下测试后再常温下静止 2 分钟	The area must be reach 90% on the surface of switch terminal 开关端子上锡面积应达到 90%以上
11	Soldering heat test (耐焊接热)	Soldering temperature (焊接温度) : 260±5°C soldering time (焊接时间) : 5 ±1 sec.	Without deformation of case or excessive looseness of terminals electrical characteristic shall be satisfied. (本体无变形,能满足于机械、电器性能)

7.0 SOLDERING AND CLEANING PROCESSES 焊接和清洗:

- 7.1. 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
- 7.2. Wave soldering (波峰焊): DIP Suggestions solder temperature at 260°C(500°F) max.5 seconds . DIP型推荐焊接焊锡温度为260°C (500°F) 最多5秒
- 7.3. Hand soldering (手焊): Use a soldering iron of 30 watts controlled at 350°C approximately 5 seconds. while applying solder.
使用30W烙铁控制温度在350°C,焊接时长约5秒

 XB Connectivity	Doc. No.	DSHP-A0162-01	Page No.	6/8
	Date Issued	2020-04-06	Prepared by	Josephine
	Date revised	2020-11-23	checked by	Jay
Product Specification	Rev. No.	01	Approved by	Mei Chen
Title : DIP SWITCH 拨码开关				

7.4. 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）



7.5. Cleaning process
 bath cleaning r
 used do not subject

sh agitation or triple
 vapor methods are
 above 51°C.


清洗使用超音波方式，能给予更好效果，使用蒸气方式时，温度不可超过51℃

8. PACKAGING 包装

8.1. All code switches are shipped in standard IC tube (所有拨码开关产品均以IC管形式包装)

8.2. SMT type can be shipper in tape & reel packing,the quantity is 1000 pcs/reel
 (贴片型可采用盘带包装, 每卷为1000只)

系列SERIES	开关位数NO.of POS	每卷装数量PER TUBE
	1	2000
	2	2000
	3	2000
	4	2000
	5	2000
	6	2000
	7	2000
	8	2000
	9	2000
	10	2000

 XB Connectivity	Doc. No.	DSHP-A0162-01	Page No.	7/8
	Date Issued	2020-04-06	Prepared by	Josephine
	Date revised	2020-11-23	checked by	Jay
Product Specification	Rev. No.	01	Approved by	Mei Chen
Title : DIP SWITCH 拨码开关				

	12	2000
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Rev.	Description	Date revised	Created/ Revised by
01	New Release	2021/05/16	Josephine Lin