



REV	DESCRIPTION	DRW	DATE
A/0			

- NOTES:
1. RATING: 12VDC 50mA
 2. CONTACT RESISTANCE: 100mΩ Max
 3. INSULATION RESISTANCE: 100MΩ 250VDC FOR 1MIN
 4. DIELECTRIC STRENGTH: 250VAC(50/60Hz) FOR1MIN
 5. LIFE TEST: 100,000 CYCLES
 6. OPERATION FORCE: 250± 80g
 7. TRAVEL: 0.25± 0.1mm

ITEM	PART NAME	MATERIAL
5	TERMINAL	H65 (C2680)
4	CONTACT	SUS
3	BUTTON	PA66
2	FIXITY	PA66
1	HOUSING	PA66

TOLERANCE				DRAWN	DATE	TITLE	TACT SWITCH	
UNLESS OTHERWISE STATED				CHK'D	DATE	MODEL	深圳市凯丰盈科技有限公司	
X.X	±0.25	∠	±2°			MATL	TS1-00-6AU-1A-3B	
X.XX	±0.15	UNIT	mm	APPV'D	DATE	FINISH		
REV	A/04	SCALE	1:1					
SIZE	A4	SHEET	1 OF 1					



深圳市凯丰盈科技有限公司

文件编号

WI-RD-001

版 号

A-0

TS1 SERIES 检验规范总则

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1/3

审核

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批准

李新超

生效日期

2011.04.15

1. General 一般事项:

1-1 Application: This specification is applied to the switch used in electronic equipment.

适用范围: 本规格主要适用于一般电子设备之开关。

1-2 Operating Temperature Range 使用温度范围: 10~60°C

1-3 RH 相对湿度: 45~85%.

1-4 Atmospheric Pressure 气压: 860~1060mbr.

2.Appearance Construction and Dimensions 外观、结构、尺寸:

2-1 Appearance: Tiny push button switch shall have good finishing, and shall have no rust, crack or plating failure.

外观: 各部分之加工须良好, 开关上下不能生锈、刮伤、裂痕电镀不良及剥离等现象产生。

2-2 cleansing condition: Switch's surface shall avoid contact with oil sludge and shall not be exposed to the air for a long time.

清洁条件: 避免开关表面与空气长时间接触及油渍水溶剂沾污。

2-3 Construction and Dimensions: As per product drawing.

结构及尺寸: 依组立图。

3. Rating 电器等级:

50mA 12VDC;

4.Electronic performance 电器性能:

	Property 项目	Test Conditions 测试条件	Standards 判定标准
4.1	Contact Resistance 接触阻抗	Measure by micro-ohm meter at DC <u>0.2</u> V, <u>1A</u> 以微欧姆计之 DC <u>0.2</u> V <u>1A</u> 测之.	Max <u>100</u> mΩ <u>100</u> mΩ 以下
4.2	Insulation Resistance 绝缘阻抗	Measure with DC. <u>100</u> V applied between terminals of open contacts and between terminals of opposite polarity. 以 <u>100</u> VDC 于开路之端子间,及不同回路端子间.	More than <u>100</u> MΩ <u>100</u> MΩ 以上
4.3	Dielectric withstand Strength Test 耐电压	between terminals of open contacts and between terminals of opposite polarity, and between terminals and frame as following. 开关须施以一分钟电压于开路之端子与端子间,不同两极之端子间及外壳与端子间,以下列额定电压测之. 250V.AC/50Hz for 1 min, 250V.AC/50HZ 1 分钟	A switch shall withstand for 1 minute without breakdown or arc in a potential applied 1 分钟内不能有电弧导通或火花产生



5.Mechanical performance 机械性能:

	Property 项目	Test Conditions 试验条件	Standards 判定标准	
5.1	Pull test 拉力测试	A static force of 2.5 pound (1kg) being applied in one direction on the tip of the terminal for 1 minute. 拉力测试:施拉以同一方向之2.5磅静力(1公斤)于端子前端一分钟.	The terminal may be deformed, but shall not sustain any trouble as deviation and breaking of terminal and breaking of insulation material 端子可容许变型,但不能有脱离,断裂及开关本体之绝缘部位破坏现象	
5.2	Operating Force 操作力	The switch should be cable of being operated within a force of 180gram \pm 50gram or 250gram \pm 50gram 开关能够在 180g \pm 50g/250g \pm 50g 范围内动作	Tolerance: \pm 50g	
5.3	Soldering Heat Resistance 耐焊锡性	Temperature and duration of dipping 焊锡温度和浸入时间:		
		Terminal of lead 导线端子	Temperature 温度 ($^{\circ}$ C)	Time 时间 (秒)
		Manual Soldering 手焊式	350 \pm 5 $^{\circ}$ C	3 \pm 0.5sec
		Dip Soldering 锡炉式	260 \pm 5 $^{\circ}$ C	5 \pm 0.5sec
5.4	Soldering 焊锡性	230 \pm 5 $^{\circ}$ C 3 \pm 0.5sec	More than 75% of the dipped part shall be covered by solder 焊锡附着浸入 75%以上	
5.5	Mechanical life test: 无负载机械寿命测试	The switch applied without electric load 未施电器负载的情况下测试	The switch should operate at least 100,000 times, without mechanical failure 开关动作次数超过 100,000 次	
5.6	Travel 行程	Push by recommended operating condition:0.25 \pm 0.1mm 行程:0.25 \pm 0.1mm	Tolerance: \pm 0.1mm	



6 Weather Proof耐候性

	Property 项目	Test Conditions 试验条件	Standards 判定标准
6.1	Cold Proof 耐寒性	Inlet socket for testing being kept in the normal condition at $10 \pm 2^\circ\text{C}$ for 96 hours, then to be measured within 1 hour after drops of water being taken away. 10±2℃放置 96 小时试验后, 置于常温常湿中 1 小时; 除去水滴后, 在一小时内测试之。	1.Max Contact Resistance: <u>100</u> mΩ 接触阻抗: <u>100</u> mΩ 以下
6.2	Hot Proof 耐热性	Inlet socket for testing being kept in the normal condition at $60 \pm 2^\circ\text{C}$ for 96 hours, then to be measured within 1 hour. 60±2℃放置 96 小时试验后, 置于常温常湿中 1 小时; 在一小时内测试之。	2.Clause 4.3shall be satisfied 必须满足 4.3 项
6.3	Resistance to humidity 耐湿性	Inlet socket for testing being kept in the normal condition at $40 \pm 2^\circ\text{C}$, and 90~95%HR for 96 hours, then to be measured within 1 hour after drops of water being taken away. 40±2℃, 相对湿度 90~95%下, 放置 96 小时试验后, 置于常温常湿中 1 小时; 除去水滴后, 在一小时内测定之。	3.No abnormalities shall be observed on the appearance and construction.. 外观构造无异常现象。