

1	2	3	4	5	6	7	8
A	B	C	D	E	F		
REV		DESCRIPTION		DRAW		DATE	
<p>Specifications</p> <ul style="list-style-type: none"> Circuit :SPST Current rating :50mA Voltage rating :12VDC Dielectric withstanding voltage :250VAC for 1 minute Contact resistance :100mΩ Max. (Initial) Insulation resistance :100MΩ Min. Operating force :250± 50gf Total travel :0.25mm± 0.1mm Operating life :100,000 cycles Min Solder specifications :255° C for 5 seconds Function :Momentary Operating temperature :+10° C ~ +60° C 							
				P.C.B焊接图			

基座	耐高温环保PPA塑料
盖板	耐高温环保PPA塑料
按钮	耐高温环保PC塑料
金属件	0.3mm高金铜
弹片	不锈钢 (或复银铜) 弹片
灯	LED灯 (绿色)

深圳市首韩科技有限公司		TITLE		轻触开关	
DRAWN	李春风	DATE	2020.5.28	MODEL	TS1273CJ-G
CHK'D	钟华	DATE	2020.5.28	MATL	
APPV'D	罗孝金	DATE	2020.5.28	FINISH	
TOLERANCE	UNLESS OTHERWISE STATED	1.5°			
X:X	?:1	UNIT	mm		
X:XX	?:05	SCALE	1:1		
REV	A	SHEET	1 OF 1		
SIZE	A4				



深圳市首韩科技有限公司

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承 认 书
SPECIFICATION FOR APPROVAL

客 户 Customer:

产品名称 Project:

轻触开关


规格型号 Part No:

TS1273CJ-G

贵公司承认印 Approval signatures

料 号/Part No.	签 章/Signatures

日期 Date:

拟制/Drawn	李春风	
审核/Check	钟华华	
批准/Approved	罗孝金	



产品规格书 Product Specification

1. GENERAL 一般性能

1.1 Switch Rating 产品额定值: 12VDC 5 0mA

1.2 Circuit 回路: SPST

1.3 Timing 切换类型: Non-shorting Shorting

1.4 Appearance and dimensions 外形及尺寸:

Shape and dimensions are subject to drawing 形状、尺寸依图面而确定

All part not allowed to exist rust、crack and poor plating.各部分应无生锈、裂痕、电镀不良现象

1.5 Operation Temperature Range 使用温度范围: - 1 0℃--60℃

1.6 Standard conditions 测试标准状态:

Unless otherwise specified, the test and measurements shall carried out as follows:

若没有特别说明, 则试验大气条件如下: Ambient temperature 正常温度: 5--35℃

Relative humidity 相对湿度 : 45--85% RH

Airpressure 大气压力 : 86--106 kPa (860--1060mbar)

1. 2. ELECTRICAL PERFORMANCE 电气性能

NO	ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格
2.1	CONTACT RESISTANCE 接触电阻	Measurements shall be made with a 1KHz small-current contact resistance meter. 在 1KHz 微小电流以下进行测试	100m Ω Max 100 毫欧以下
2.2	INSULATION RESISTANCE 绝缘电阻	Apply avoltage of250VDC for 1 min.TO following Portions after which measurement shall be made: 1.between body and conductor 2.Between conductors not to be contact. 输入 250VDC 电压 1 分钟, 按以下接触方法测试: 接触端子之间, 塑胶体与端子之间进行测试	100 MΩ MIN 100 兆欧以上
2.3	DIELECTRIC STRENGTH 耐电压	AC 250V(50Hz or 60Hz) shall be applied for 1min: 1.Between Terminals 2.Between Individual Terminals and Frame 输入 AC250V(50Hz or 60Hz)电压 1 分钟,按接触端子之间和塑胶体与端子之间进行测试	There shall be no breakdown 无击穿现象出现

3. Mechanical characteristics 机械性能:

NO	ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格
3.1	OPERATION FORCE 动作力	The force applied to the plunger/lever required Operate the switch contacts. 从自由位置运行到动作位置必须加到驱动杆上的力	250±50gf
3.2	TRAVEL 行程	The distance of or angle through which the plunger/lever moves from the free position to the Operating position. 从驱动杆的自由位置到动作位置的移动距离或角度	0.25±0.1 mm
3.3	TERMINAL STRENGTH 端子强度	A static forec of 500gf being applied in one direction on the tip of the terminal for 1 minute 一个 500gf 静负荷施加于端子顶部的之一个方向持续一分钟	No damage ,Mechanical and electrical characteristics shall be satisfied. 没有破坏满足于机械、电气性能
3.4	ACTUATOR STRENGTH 按键强度	A static load of 1Kgf being applied in one direction of actuator for 1 minute 一个 1 公斤静负荷施加于按键一个方向持续一分钟	The deformation shall not be extreme and the actuator shall mechanically work normally 按键无变形，可以正常操作

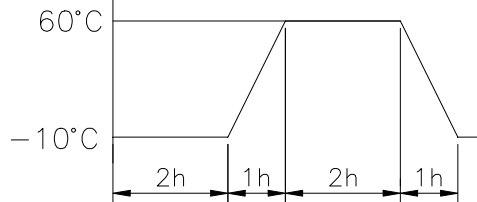
2. DURABILITY 耐焊性:

NO	ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格
4.1	SOLDERING TEST 可焊性测试	The tip of the terminals shall be dipped 2mm in the soldet bath at a temperature of 260 ±5°C for 3±0.5 sec 端子顶部被浸入焊锡池 2mm 深，温度 260 ±5°C，时间为 3±0.5 sec.	A new uniform coating of solder Shall cover a minimum of 75% of The surface being immersed. 浸入的部分 75%以上表面将被锡覆盖
4.2	SOLDERING HEAT TEST 耐焊性	Temperature of solder: 250±5°C Time of immersion:3±1 Sec Immersion depth up to the surface of the board Thickness of PCB 1.6mm Reflow soldering graph 焊炉焊锡的温度控制在250±5°C，过炉焊接的时间3±1秒，于(基板)厚度为 1.6	There shall be no damage , Mechanical and electrical characteristics shall be satisfied. 外观无异常，满足于机械，电气性能

3. LIFE CHARACTERISTICS 寿命性能:

NO	ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格
5.1	LIFE TEST 寿命测试	1) Resistance load 2) Operation speed :15-30cycles/min 3) Cycles of operation : 100,000 cycles 在负荷的条件下以每分钟 15~30 次的速度进行测试	(1) Contact Resistance shall be 200mΩ Max. (2) Actuating Force:±30% (3) Mechanical and electrical characteristics shall be satisfied. 接触电阻不能超过 200 mΩ 力度减少 30%其它满足于机械、电气性能

4. WEATHER PROOF CHARACTERISTICS 耐候性能:

NO	ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格
6.1	COLD TEST 耐冷测试	1) Temperature : -25±2℃ 2) Duration of test : 96 hours 3) Standard condition after test : 1 hour 在-30±2℃环境中放 96 小时，再放在正常环境中，1 小时后进行测试	There shall be no damage , Mechanical and electrical characteristics shall be satisfied. 外观无异常，满足于机械，电气性能
6.2	HEAT TEST 耐热测试	1) Temperature : 80±2℃ 2) Duration of test : 96 hours 3) Standard conditions after test : 1 hour 在 80±2℃环境中放 96 小时，再放在正常环境中，1 小时后进行测试	
6.3	HUMIDITY TEST 耐湿测试	1) Temperature : 60±2℃ 2) Relative humidity : 90--95% 3) Duration of test : 96 hours 4) Standard conditions after test : 1 hour 在 60±2℃: 90--95%环境中放 96 小时，再放在正常环境中，1 小时后进行测试	
6.4	TEMPERATURE CYCLE 温度循环测试	1) Test cycles : 5 cycles 2) Standard conditions after test : 1 hour 3) 1 cycle :  如图示之环境中，循环 5 次后，再置于正常环境中，60 分钟后进行测试	