

规格书 SPECIFICATION

CUSTOMER NAM	客户名称:	
CUSTOMER NO.	客户编号:	
SERIES	系 列:	手电筒开关
MODEL NO.	型 号:	TPS SERIES
DRAWING NO.	图形号:	Flashlight switch

If specification of this product meets your request, please confirm all the items of it and return to us with signature and stamp, it will be basis of our production and record. Thanks your cooperation in advance!

若此产品规格符合贵司要求,敬请确认此规格书内所有项目

并签名和盖章后回传给我司,以作我司产品制作之

依据和存档之用,多谢合作!

EXAMINE & APPROVAL 审批

APPROVE 接受		NOT APPROVE	不接受	
SIGNATURE 签署	STAMP盖章	DATE日期		

PREPARED BY.制表人	CHECKED BY.校对	APPROVED BY.审核	APPROVAL BY. 批准
研发部 戴海明	品质部 黄自清	工程部	总经办 吴量
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东莞市溪榜电子有限公司

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Dong Guan XB ElectronicsCo.,Ltd

AccountNumber: 705540238 BankName: CitibankN.A., HongKongBranch Country/Region:Hong Kong BankCode:006 BankAddress: 3GardenRoad, Central, Hong Kong SWIFT/BIC: CITIHKHX (CITIHKHXXXX*If11charactersare required) MAiL: HK@ALPSR.CN XB@ALPSR.CN Quality core! Afterburner for Made in China!

規格書 SPECIFICATION

- SERIES 系列: TORCH SWITCH
- MODEL NO. 型號: TPS SERIES
- 1. RATING 額定值: 1A 250V AC
- 2. CIRCUIT 回路:
- 3. TIMING 切換類型: NON-SHORTING
- 4. STANDARD TEST TEMPERATURE SHALL BE 5℃ TO 35℃ AND HUMIDITY SHALL BE 45% TO 85%.
 溫度 5~35℃,濕度 45~85% 標准狀態下測試。
- OPERATING TEMPERATURE RANGE IS -10℃ TO 60℃. IT IS USUALLY APPLIED TO ELECTRONIC AND ELECTRICAL APPLIANCE PRODUCTS.
 溫度 -10℃~60℃ 環境內使用。一般適用於電子、電氣方面產品使用。

ITI	EM 項目	TEST CONDITION 測試條件	PERFORMANCE 性能
		6. ELECTRONICAL PERFORMANCE	電氣性能
6. 1	CONTACT RESISTANCE 拉姆雷印	Being tested at 1 kHz small current and voltage (100mA,20mV) by contact resistance meter. 左 1 hHz 小原流電應 (100m A 20mV) 工測是	100 mΩ max.
	接觸電阻	在1kHz小電流電壓(100mA,20mV)下測量。	100 毫歐 以下。
6.2	INSULATION RESISTANCE 絕緣電阻	DC 500 V shall be applied for test between terminals and between terminals and frame for one minute. 在端子之間和端子與殼之間加 DC 500 V 條件下,持續1分鐘測量。	100 MΩ min. 100 兆歐 以上。
6. 3	WITHSTAND VOLTAGE 耐電壓	AC 500 V and induction current 1 mA shall be applied for test between terminals and between terminals and frame for one minute. 在端子之間和端子與殼之間加 AC 500 V (50Hz或60Hz) 感應電流 1mA 條件下,持續1分 鐘測量。	There shall be no breakdown. 無擊穿現象出現。
		7. MECHANICAL PERFORMANCE 機	械性能
7.1	OPERATING FORCE 動作力	Place the switch vertically to the operation direction, impress force to the centre of knob, and test the maximun force of onstate. 開關垂直於操作方向放置,在推杆中心逐漸施 力,測量開關導通所需的最大力度。	750±300gf
7. 2	TERMINAL STRENGTH 端子強度	A static force of 500 g being applied in one direction on the tip of the terminal for l minute. 一個 500 克之靜負荷施加於端子頂部的一個 方向持續1分鐘。	There shall be no sign of mechanical and electrical damage. 無任何迹象顯示機械及電器性 能之損壞。

ITI	EM 項目	TEST CONDITION 測試條件	PERFORMANCE 性能
7.3	KNOB STRENGTH 推杆強度	place the switch vertically to the operation direction, test the maximum pulling force that knob can withstand 開關垂直於操作方向放置,測量推杆所能承受 的最大拉力。	lkg
		8. DURABILITY 耐久性	-
8. 1	SOLDERING TEST 可焊性試驗	The tip of the terminals shall be dipped 2 mm in the solder bath within temperature of 250±5℃ for 3 seconds. 端子頂部被浸入焊錫池 2mm 深, 溫度250±5℃, 時間3秒。 The condition mentioned is temperature for lead-free so 無鉛錫測試 Alloy:Sn 96.5% Cu 3% Ag 0.5% 成份:錫 96.5% 鋼 3% 銀 0.5%	Over 95% of the immersed surface was covered by tin. 浸入的部份95%以上表面將被 錫覆蓋。
8.2	SOLDERING RESISTANT TEST 耐焊性試驗	 Manual soldering temperature 350±5℃, soldering time 3±0.5 seconds, however excessive pressure shall not be applied to the terminal. 手焊接的時候溫度需控制在350±5℃,時間爲3±0.5秒,但不能在端子上施加異常壓力。 The condition mentioned is temperature for lead-free so 無鉛錫測試。 Alloy:Sn 96.5% Cu 3% Ag 0.5% 成份: 錫 96.5% 鋼 3% 銀 0.5% Remark:Don't use in wave Soldering. 備注:不可用於波峰焊接 	Without deformation of case or excessive looseness of teminals, meet mechanical and electrical properties 本體無變形,能滿足於機械、電器性能.
8.3	LIFE TEST 壽命試驗	50,000 cycles of operation at a rate of 15-18 cycles per minute with unloading 無負載條件下,每分鐘 15-18 次的速度 操作 50,000 次。	 (1) Contact resistance 150 mΩ max. 接觸電阻 150 毫歐以下 (2) Operating force 30% initial value 動作力變化範圍初始值30% (3) ITEM 項目—6.2 (4) ITEM 項目—6.3

8.4	REFLOW SOLDERING HEAT TEST 回流焊接熱試驗	Temperature(°C) 260°C max.(3 Sec max) 180°C 230°C 100 Time 100 Time 100 40s max. 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	Without deformation of case or excessive looseness of teminals, meet mechanical and electrical properties 本體無變形,能滿足於機械、 電器性能.
ITH	EM 項目	TEST CONDITION 測試條件	PERFORMANCE 性能
8.5	HEAT RESISTANT TEST 耐熱試驗	80±2℃ for 96 hours,test after keeping in normal condition for 30 minutes. 在 80±2℃ 環境中放96小時,再放在正常環境 中30分鐘後進行測試。	(1) Contact resistance 150 mΩ max. 接觸電阻150毫歐以下
8.6	MOISTURE RESISTANT TEST 耐濕試驗	40±2℃ 90-95% RH for 96 hours.test after keeping in normal condition for 30 minutes. 在40±2℃ 90-95% RH 環境中放96小時,再放在 正常環境中,30分鐘後進行測試。	(2) Insulation resistance 50 MΩ min.絕緣電阻50兆歐以上
8.7	COLD RESISTANT TEST 耐冷試驗	At -20±3℃ for 96 hours, test after keeping in normal condition for 30 minutes. 在 -20±3℃ 環境中放96小時,再置於正 常環境中,30 分鐘後進行測試。	(3)ITEM 項目—6.3 (4)ITEM 項目—7.1
8.8	TEMPERATURE CYCLING TEST 溫度交 變試驗	According to following figure,after 5 cycles, test after keeping in normal condition for 30 minutes. 如圖示之環境中,循環 5 次後,再置於正常環 境中, 30 分鐘後進行測試。 +70℃ -20℃ One cycle 2 1 2 1 Hours	

		Under sealing pack condition, stored temperature
		don't exceed 30 $^{\circ}$ C and relative humidity is 75% RH;
		in the enviroment of no sunshine direct and no
		corrosive gas, the stored time ought to be three
		months but within six month at most.
	STORAGE	密封包裝狀態下,儲存溫度為≤30℃,相對溫度
	ENVIROMENT	75% RH;, 無陽光直射, 無腐蝕性氣體的環境中,
	儲存環境	儲存時間為3個月,最長不宜超過6個月。
8.9		Without sealing pack condition, stored temperature
0.9		don't exceed 30 $^{\circ}$ C and relative humidity is 75% RH;
		in the enviroment of no sunshine direct and no
		corrosive gas, the stored time shouldn't exceed 48H
		無密封包裝狀態下,儲存溫度為≤30℃,相對溫度
		75% RH;, 無陽光直射, 無腐蝕性氣體的環境中,
		儲存時間最長不宜超過48小時。
		Don't excessive overlap or overstocking when
		keeping this goods, in case of damage.
		保存時應注意物品不能過量重疊、積壓、以免損壞