



标准&定制开关连接器产品制造商
DONG GUAN XI BANG ELECTRONICS CO., LTD.

规格书

SPECIFICATION

CUSTOMER NAME 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
<div style="border: 1px solid red; padding: 2px; text-align: center;">研发部</div> <div style="border: 1px solid red; padding: 2px; text-align: center;">戴海明</div> <div style="border: 1px solid red; padding: 2px; text-align: center;">2022. 06. 08</div>	<div style="border: 1px solid red; padding: 2px; text-align: center;">品质部</div> <div style="border: 1px solid red; padding: 2px; text-align: center;">黄自清</div> <div style="border: 1px solid red; padding: 2px; text-align: center;">2022. 06. 08</div>	<div style="border: 1px solid red; padding: 2px; text-align: center;">工程部</div> <div style="border: 1px solid red; padding: 2px; text-align: center;">庞军</div> <div style="border: 1px solid red; padding: 2px; text-align: center;">2022. 06. 08</div>	<div style="border: 1px solid red; padding: 2px; text-align: center;">总经办</div> <div style="border: 1px solid red; padding: 2px; text-align: center;">吴量</div> <div style="border: 1px solid red; padding: 2px; text-align: center;">2022. 06. 08</div>

东莞市溪榜电子有限公司

Dong guan Xi Bang Electronics Co., Ltd
 地址: 广东省东莞市黄江镇合路工业区
 Address: He Lu Industrial Zone, Huangjiang Town
 , Dongguan City, Guangdong Province
 Tel: (0769)82055138/82056828
 Fax: (0769)83663452

邮箱: admin@alspr.com switch@alspr.com
<http://www.alspr.cn/> <http://www.alspr.com/>

Dong Guan XB Electronics Co., Ltd

Account Number: 705540238
 Bank Name: Citibank N. A., Hong Kong Branch
 Country/Region: Hong Kong
 Bank Code: 006
 Bank Address: 3 Garden Road, Central, Hong Kong
 SWIFT/BIC: CITIHKHX (CITIHKHXXXX*If 11 characters are 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: 0.5A 1A 12V 30V

2. CIRCUIT 回路:

3. TIMING 切換類型: NON-SHORTING

4. STANDARD TEST TEMPERATURE SHALL BE 5°C TO 35°C AND HUMIDITY SHALL BE 45% TO 85% .

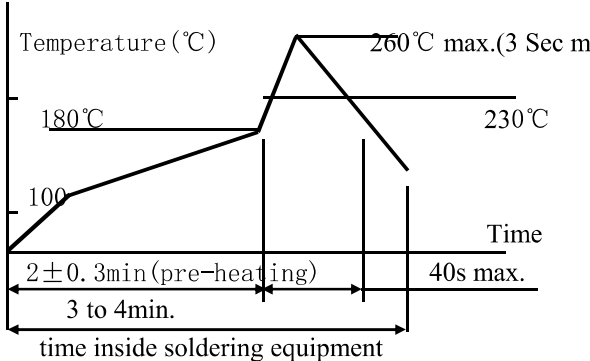
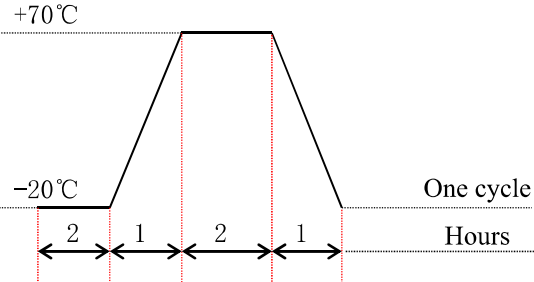
溫度 5~35°C，濕度 45~85% 標準狀態下測試。

5. OPERATING TEMPERATURE RANGE IS -10°C TO 60°C. IT IS USUALLY APPLIED TO ELECTRONIC AND ELECTRICAL APPLIANCE PRODUCTS.

溫度 -10°C~60°C 環境內使用。一般適用於電子、電氣方面產品使用。

ITEM 項目		TEST CONDITION 測試條件	PERFORMANCE 性能
6. ELECTRONICAL PERFORMANCE 電氣性能			
6.1	CONTACT RESISTANCE 接觸電阻	Being tested at 1 kHz small current and voltage (100mA,20mV) by contact resistance meter. 在 1 kHz 小電流電壓 (100mA,20mV) 下測量。	100 mΩ max. 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 M Ω 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。

ITEM 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。	1kg
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°C for 3 seconds. 端子頂部被浸入焊錫池 2mm 深, 溫度250±5°C, 時間3秒。	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。
		The condition mentioned is temperature for lead-free soldering . 無鉛錫測試 Alloy: Sn 96.5% Cu 3% Ag 0.5% 成份: 錫 96.5% 銅 3% 銀 0.5%	
8.2	SOLDERING RESISTANT TEST 耐焊性試驗	Manual soldering temperature 350±5°C, 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°C, 時間為3±0.5秒, 但不能在端子上施加異常壓力。	Without deformation of case or excessive looseness of terminals, meet mechanical and electrical properties 本體無變形, 能滿足於機械、電器性能。
		The condition mentioned is temperature for lead-free soldering . 無鉛錫測試。 Alloy: Sn 96.5% Cu 3% Ag 0.5% 成份: 錫 96.5% 銅 3% 銀 0.5%	
		Remark: Don't use in wave Soldering. 備注: 不可用於波峰焊接	
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	<p>REFLOW SOLDERING HEAT TEST 回流焊接熱試驗</p>	 <p>Temperature (°C)</p> <p>180°C</p> <p>260°C max.(3 Sec max.)</p> <p>230°C</p> <p>100</p> <p>Time</p> <p>2±0.3min (pre-heating)</p> <p>3 to 4min.</p> <p>40s max.</p> <p>time inside soldering equipment</p> <p>*Temperature means The temperature of the PC board surface * PC board thickness for 1.0 mm *溫度指PC板表面的溫度 *PC板厚度為1.0毫米</p> <p>The condition mentioned is temperature for lead-free soldering . 無鉛錫測試。 Alloy: Sn 96.5% Cu 3% Ag 0.5% 成份: 錫 96.5% 銅 3% 銀 0.5% Allowable soldering time: 1 time 回流焊次數: 1次</p>	<p>Without deformation of case or excessive looseness of terminals, meet mechanical and electrical properties 本體無變形,能滿足於機械、電器性能。</p>
ITEM	項目	TEST CONDITION 測試條件	PERFORMANCE 性能
8.5	<p>HEAT RESISTANT TEST 耐熱試驗</p>	<p>80±2°C for 96 hours, test after keeping in normal condition for 30 minutes. 在 80±2°C 環境中放96小時,再放在正常環境中30分鐘後進行測試。</p>	<p>(1) Contact resistance 150 mΩ max. 接觸電阻150毫歐以下</p>
8.6	<p>MOISTURE RESISTANT TEST 耐濕試驗</p>	<p>40±2°C 90-95% RH for 96 hours. test after keeping in normal condition for 30 minutes. 在40±2°C 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。</p>	<p>(2) Insulation resistance 50 MΩ min. 絕緣電阻50兆歐以上</p>
8.7	<p>COLD RESISTANT TEST 耐冷試驗</p>	<p>At -20±3°C for 96 hours, test after keeping in normal condition for 30 minutes. 在 -20±3°C 環境中放96小時,再置於正常環境中, 30 分鐘後進行測試。</p>	<p>(3) ITEM 項目—6.3 (4) ITEM 項目—7.1</p>
8.8	<p>TEMPERATURE CYCLING TEST 溫度交變試驗</p>	<p>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。</p>  <p>+70°C</p> <p>-20°C</p> <p>One cycle</p> <p>Hours</p> <p>2 1 2 1</p>	

8.9	<p>STORAGE ENVIROMENT 儲存環境</p>	<p>Under sealing pack condition,stored temperature don't exceed 30°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.</p> <p>密封包裝狀態下，儲存溫度為≤30°C，相對溫度75% RH;，無陽光直射，無腐蝕性氣體的環境中，儲存時間為3個月，最長不宜超過6個月。</p> <p>Without sealing pack condition,stored temperature don't exceed 30°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</p> <p>無密封包裝狀態下，儲存溫度為≤30°C，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。</p> <p>Don't excessive overlap or overstocking when keeping this goods,in case of damage.</p> <p>保存時應注意物品不能過量重疊、積壓、以免損壞</p>	
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