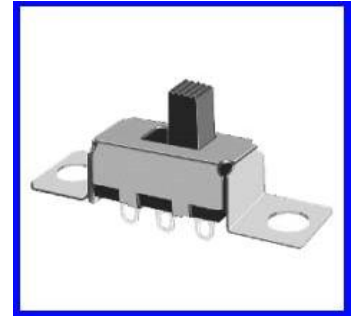
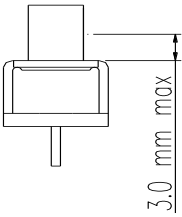


S.T. INDUSTRIAL (ASIA) LIMITED

Specifications 技術特性表



- | | | |
|-------------------|-------------|---------------------------|
| SERIES | 系列 | SLIDE SWITCH |
| MODEL NO | 型號 | :SS-12F48-G (0.5A) |
| 1. RATING | 額定值 | 0.5A 50V DC |
| 2. CIRCUIT | 回路 | 1P2T |
| 3. TIMING | 切換類型 | :NON-SHORTING |
- 4. 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。
- 6. 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。

ITEM 項目		TEST CONDITION 測試條件	PERFORMANCE 性能
6. ELECTRICAL PERFORMANCE 電氣性能			
6.1	CONTACT RESISTANCE 接觸電阻	Being tested at 1kHz small current and voltage (100mA , 50mV) by contact resistance meter. 在1kHz 小電流電壓 (100mA,50mV) 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。	100MΩ min. 100兆歐 以上
6.3	WITHSTAND VOLTAGE 耐電壓	AC 500 V and induction current 1mA 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 動作力	Measure at the point of 3mm from the tip of the knob 在距離推杆前沿端 3mm作測定點。 	200±80gf
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 1 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。

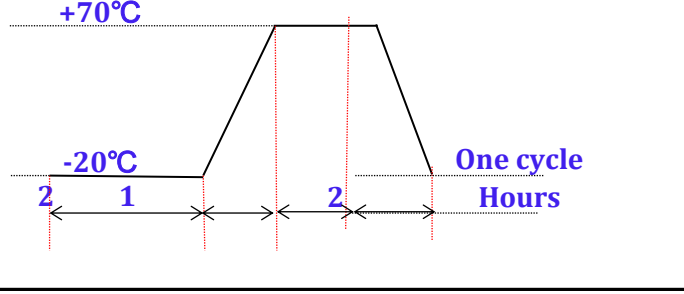
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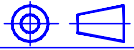
Specifications 技術特性表

ITEM 項目		TEST CONDITION 測試條件	PERFORMAENCE 性能
7.3	KNOB STRENGTH 推杆強度	A static force of 1kg being applied in one direction of knob for one minutes. 一個1公斤靜負荷施加於推杆之一個方向持續1分鐘。	Knob can be operated normally without deformation 推杆無變形,可以正常操作。
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±10°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±10°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 teminals, meet mechanical and electrical operties. 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%	
8.3	LIFE TEST 壽命試驗	10,000 cycles of operation at a rate of 15-18 cycles per minute with unloading 無負載條件下, 每分鐘 16-19 次的速度操作 10,000 次。	(1) Contact resistance 200mΩ max. 接觸電阻200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 (5) ITEM 項目—7.3

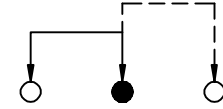
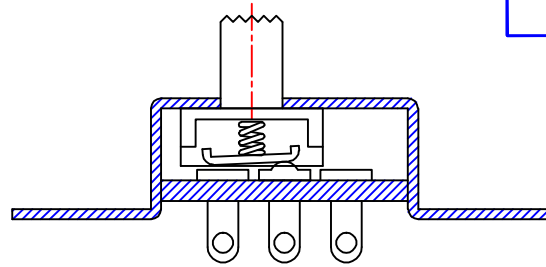
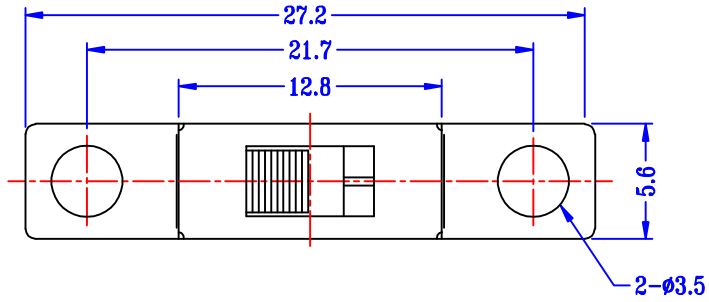
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Specifications 技術特性表

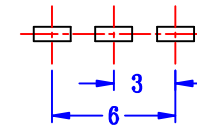
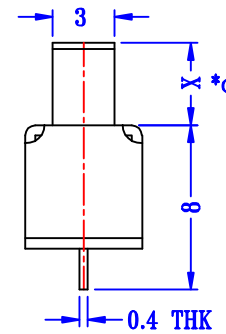
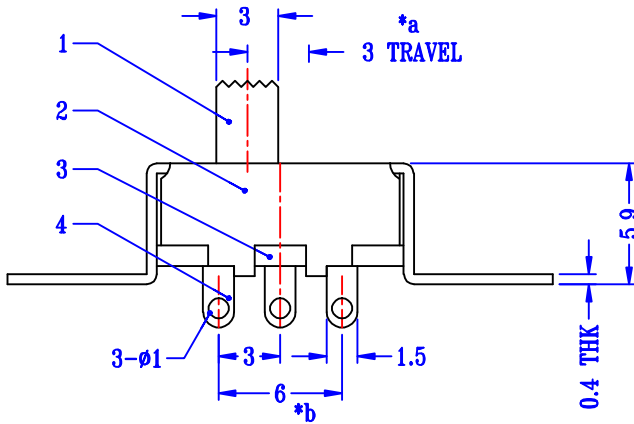
ITEM 項目		TEST CONDITION 測試條件	PERFORMAENCE 性能
8.4	HEAT RESISTANT TEST 耐熱試驗	80±2°C for 96 hours, test after keeping in normal condition for 30 minutes. 在 80±2°C 環境中放96小時,再放在正常環境中30分鐘後進行測試。	(1) Contact resistance 200mΩ max. 接觸電阻200毫歐以下 (2) Insulation resistance 50 MΩ min. 絕緣電阻50兆歐以上
8.5	MOISTURE RESISTANT TEST 耐濕試驗	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。	
8.6	COLD RESISTANT TEST 耐冷試驗	At -20±3°C for 96 hours, test after keeping in normal condition for 30minutes. 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。	
8.7	TEMPERATURE CYCLING TEST 溫度交變試驗	<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> 	(3) There shall be no sign of mechanical and electrical damage. 無任何跡象顯示機械及電器性能之損壞。
8.8	STORAGE ENVIROMENT 儲存環境	<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. 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 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. 保存時應注意物品不能過量重疊、積壓、以免損壞</p>	



CAD FILE:



SCHEMATIC (NON-SHORTING)



P.C.B LAYOUT

注: *表示关键尺寸(3个)

8					TOLERANCE				
7					UNLESS SPECIFIED				
6	SPRING	STEEL WIRE	1	NATURAL	WITHIN 1.5mm : ±0.1mm				
5	CONTACT	PURE COPPER	1	Ag PLATED	OVER 1.5mm : ±0.2mm	ISSUE	DATE	DESCRIPTIONS OF REVISION	
4	TERMINAL	BRASS STRIP	3	Ag PLATED OVER Ni PLATED				APPD.	
3	BASE	PHENOLIC RESIN	1	NATURAL	TITLE : VERTICAL SLIDE SWITCH		UNIT : mm	DRWG NO.: SS-12F48-G(0.5A)	
2	FRAME	STEEL STRIP	1	Ni PLATED	MODEL: SS-12F48-G(0.5A)		SCALE: 1:1	DWN.	Y M G
1	KNOB	POM	1	BLACK	S.T. INDUSTRIAL (ASIA) LIMITED			CHK'D	L M
NO.	PARTS	MATERIALS	Q'TY	FINISH				APPD.	ENG-060
									18-Sep-2013
									18-Sep-2013
									18-Sep-2013