



规格书

SPECIFICATION

CUSTOMER NAME	客户名称:	
CUSTOMER NO.	客户编号:	
SERIES	系 列:	震动开关
MODEL NO.	型 号:	XB-SW-01
DRAWING NO.	图 形 号:	TILT SENSOR 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 2022. 06. 08	品质部 黄自清 2022. 06. 08	工程部 庞军 2022. 06. 08	总经办 吴量 2022. 06. 08

东莞市溪榜电子有限公司

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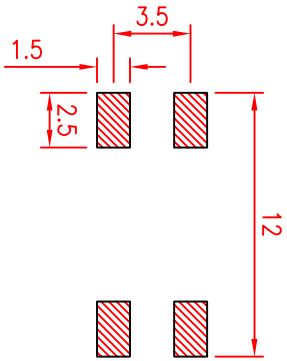
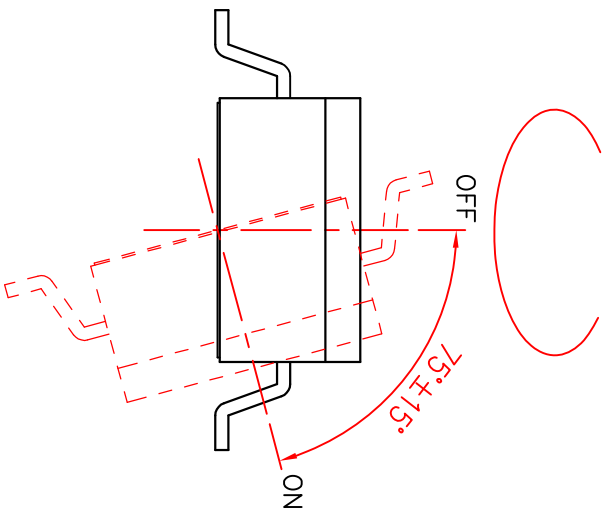
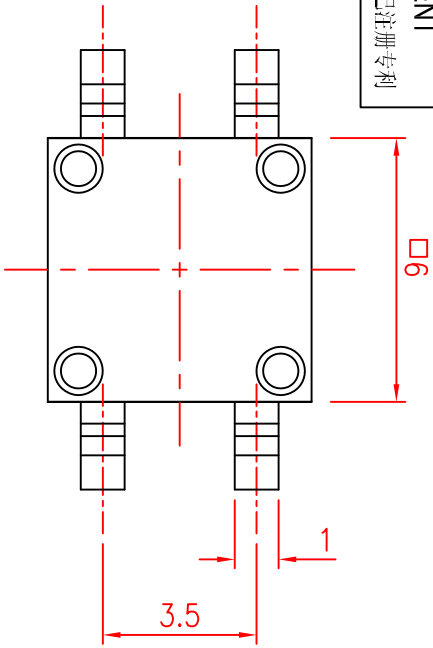
邮箱: admin@alspr.com switch@alspr.com
<http://www.alspr.cn/> <http://www.alspr.com/>

Dong Guan XB ElectronicsCo., Ltd

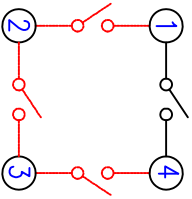
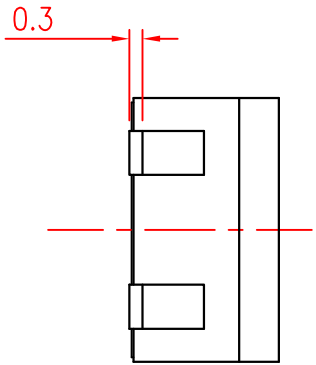
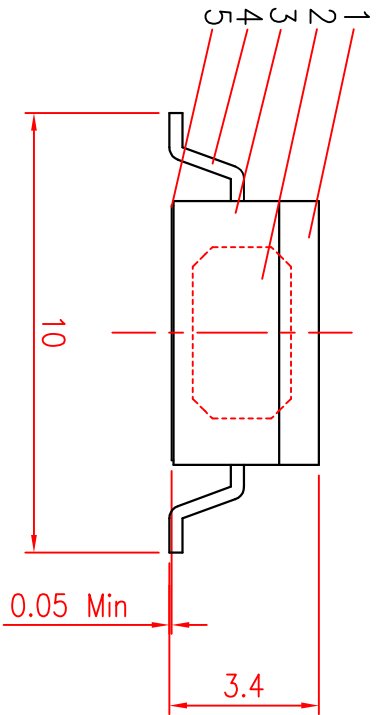
AccountNumber: 705540238
BankName: CitibankN.A.,HongKongBranch
Country/Region:Hong Kong
BankCode:006
BankAddress: 3GardenRoad,Central,Hong Kong
SWIFT/BIC: CITIHKHX (CITIHKHXXXX*If11charactersare
required)

MAiL: HK@ALPSR. CN XB@ALPSR. CN
Quality core! Afterburner for Made in China!

PATENT
此产品已注册专利



P.C.B LAYOUT



CIRCUIT

TITLE	TILT SENSOR SWITCH △	DRAWN	L.Liu	TOLERANCE OTHERWISE UNLESS SPECIFIED							
PART NO.	XB-SW-01	CHECKED	G.C.Chen	UP TO 5	±0.2	6					
DRAW NO.		APPROVED	H.K.Lai	ABOVE 5 ~ 30	±0.3	5	DUSTPROOF FILM	POLYIMIDE FILM	1	ORANGE	
				ABOVE 30 ~ 50	±0.4	4	TERMINAL	C2680R	4	Ag PLATED	
				ABOVE 50	±0.5	3	HOUSING	PA6T	1	BLACK	
				ANGLE	±3°	2	COLUMN	BRONZE	1	Ag PLATED	
SCALE: 6:1	UNIT: mm	DATE: 04-03-2010				1	COVER	PA6T	1	BLACK	
						NO.	PARTS	MATERIAL	QTY.	FINISHING	
						1	COVER	PA6T	1	BLACK	
						2	COLUMN	BRONZE	1	Ag PLATED	
						3	HOUSING	PA6T	1	BLACK	
						4	TERMINAL	C2680R	4	Ag PLATED	
						5	DUSTPROOF FILM	POLYIMIDE FILM	1	ORANGE	
						6					
						7					
						8					

东莞市溪榜电子有限公司

DONG GUAN XI BANG ELECTRONI CS CO., LTD.

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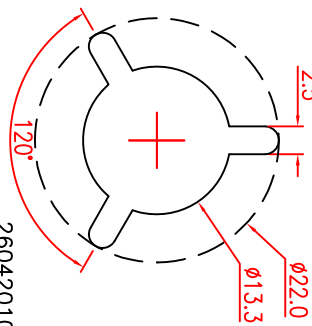
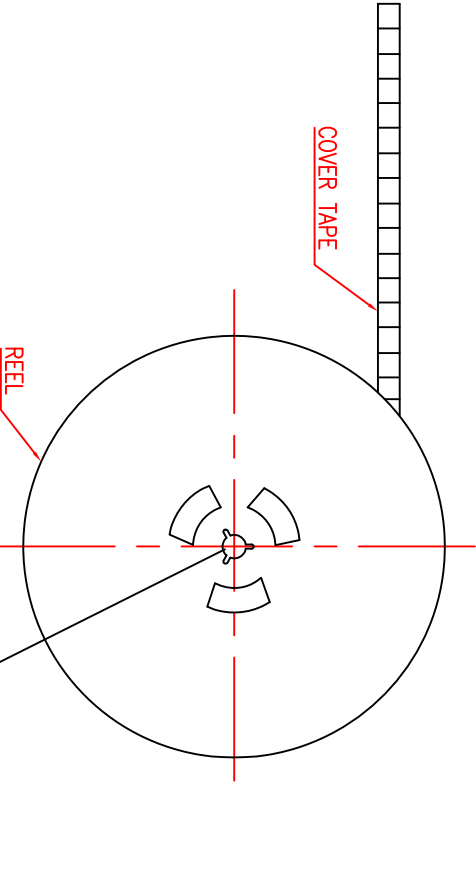
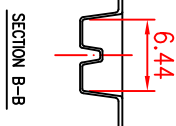
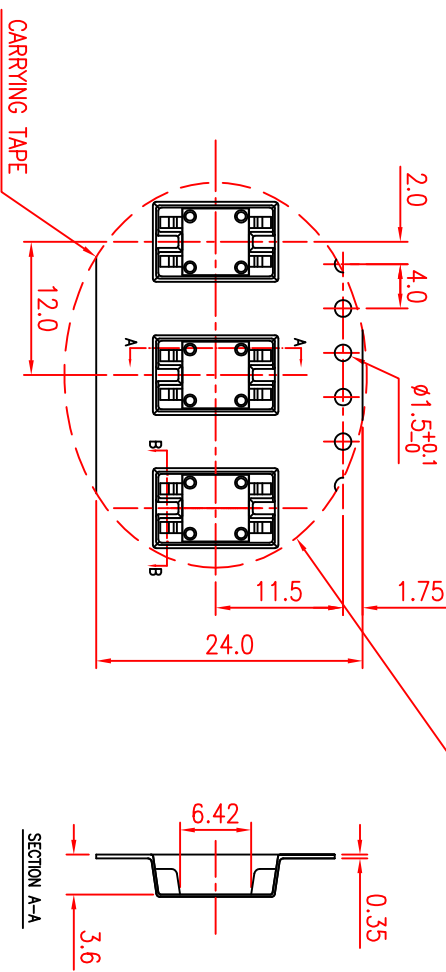
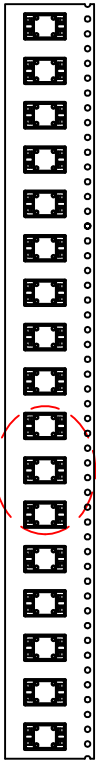
10092010

REVISION	A
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RoHS Compliant

SYMB	REVISION	DATE	APVD.
	ROLLING BALL SWITCH — TILT SENSOR	26112010	

1. 产品符合 SONY SS-00259 最新版管理要求, 2. 成型用树脂、墨水、涂料、被覆电线4种材料必须在SONY指定的原材料供应商中购买



NOTE:
1000 SWITCHES PACKED PER REEL

	TILT SENSOR	DRAWN	L.Liu	TOLERANCE OTHERWISE UNLESS SPECIFIED					
TITLE				8					
PART NO.	XB-SW-01	CHECKED	G.C.Chen	UP TO 5	±0.2	6			
DRAW NO.		APPROVED	H.K.Lai	ABOVE 5 ~ 30	±0.3	5			
				ABOVE 30 ~ 50	±0.4	4			
				ABOVE 50	±0.5	3			
SCALE: 3:2	UNIT: mm	DATE: 22-12-2007		ANGLE	±3°	2			



东莞市溪榜电子有限公司
DONG GUAN XI BANG ELECTRONI CS CO., LTD.

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規格書

SPECIFICATION

SERIES 系列: TILT SENSOR SWITCH

MODEL NO. 型號: XB-SW-01

1. RATING 額定值: 25mA 24V DC

2. CIRCUIT 回路:

3. TIMING 切換類型:

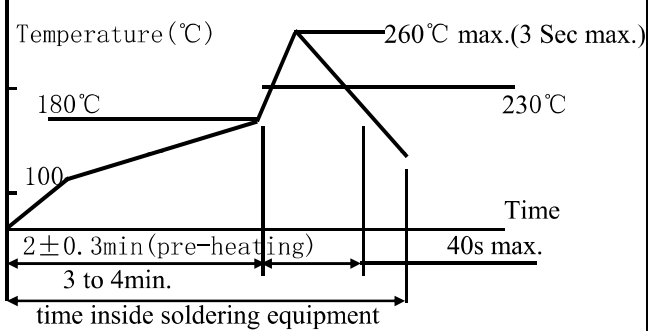
4. STANDARD TEST TEMPERATURE SHALL BE 5°C TO 35°C AND HUMIDITY SHALL BE 45% TO 85% .

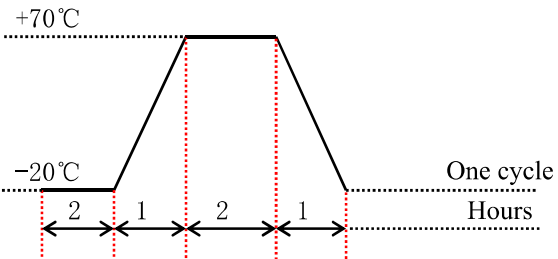
溫度 5~35°C, 濕度 45~85% 標準狀態下測試。

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 1kHz 小電流電壓 (100mA,20mV) 下測量。	5 Ω max. 5 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。	100M Ω min. 100兆歐 以上。
6.3	WITHSTAND VOLTAGE 耐電壓	AC 250 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 250 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	TERMINAL STRENGTH 端子強度	A static force of 300 g being applied in one direction on the tip of the terminal for 1 minute. 一個 300 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. 無任何跡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
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 $250\pm 5^{\circ}\text{C}$ for 3 seconds. 端子頂部被浸入焊錫池 2mm 深, 溫度$250\pm 5^{\circ}\text{C}$, 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 $350\pm 5^{\circ}\text{C}$, 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$350\pm 5^{\circ}\text{C}$, 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 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%	
8.3	REFLOW SOLDERING HEAT TEST 回流焊接熱試驗	 *Temperature means The temperature of he 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	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。
		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	
8.4	LIFE TEST 壽命試驗	100,000 cycles of operation at a rate of 15-18 cycles per minute under normal temperature with unloading 在常溫無負載條件下, 每分鐘 15-18 次的速度操作100,000次。	(1) Contact resistance 10 Ω max. 接觸電阻10歐以下 (2) ITEM 項目—6.2 (3) ITEM 項目—6.3

ITEM 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 10 Ω max. 接觸電阻10 歐以下 (2) Insulation resistance 50 MΩ min. 絕緣電阻50兆歐以上 (3) ITEM 項目—6.2 (4) ITEM 項目—6.3
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。	
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。	
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。 	
8.9	STORAGE ENVIROMENT 儲存環境	Under sealing pack condition, stored temperature don't exceed 30℃ 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℃, 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。 Without sealing pack condition, stored temperature don't exceed 30℃ 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	