



规格书

SPECIFICATION

CUSTOMER NAME	客户名称:	
CUSTOMER NO.	客户编号:	
SERIES	系 列:	按键开关
MODEL NO.	型 号:	XB-7070-L
DRAWING NO.	图 形 号:	Push Switches

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

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Country/Region: Hong Kong

BankCode:006

BankAddress: 3GardenRoad, Central, Hong Kong

SWIFT/BIC: CITIHKHX (CITIHKHXXXX*If 11 characters are required)

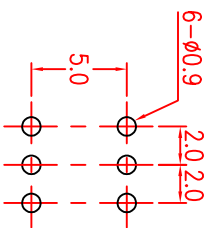
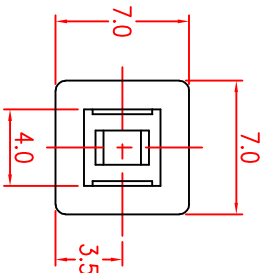
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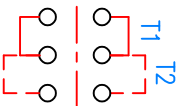
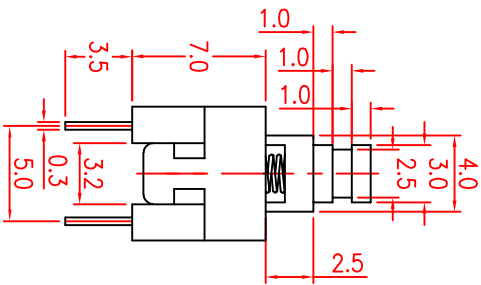
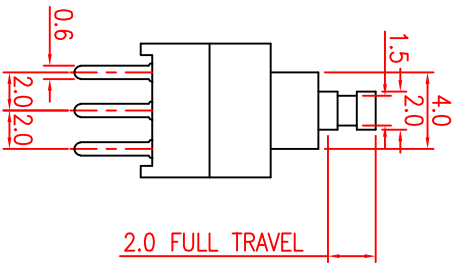
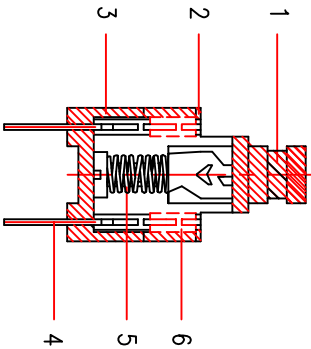
Quality core! Afterburner for Made in China!

RoHS Compliant

SYMB	REVISION	DATE	APVD.

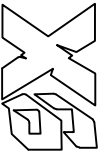


P.C.B. LAYOUT
TOP VIEW



CIRCUIT

TITLE	PUSH SWITCH	DRAWN	L.Liu	TOLERANCE OTHERWISE UNLESS SPECIFIED			
PART NO.	XB-7070-L	CHECKED	G.C.Chen	UP TO 5	±0.2	7	8
DRAW NO.	P15	APPROVED	H.K.Loi	ABOVE 5 ~ 30	±0.3	6	CONTACT PLATE
				ABOVE 30 ~ 50	±0.4	5	SPRING
				ABOVE 50	±0.5	4	TERMINAL
SCALE	5:2	UNIT	mm	DATE	13-11-2002	3	CASE
						2	COVER
						1	KNOB
							PARTS
							MATERIAL
							QTY.
							FINISHING



东莞市溪榜电子有限公司

DONG GUAN XI BANG ELECTRONI CS CO., LTD.



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MODEL NO. XB-7070-L

产品名称: 按键开关

DRAWN 制订

吴工

APPD. 审核

庞军

1、RATING (额定值) : 0.5A 30V DC

2、FUNCTION (接触型式) : 2P2T

3、TIMING (时间特性) : NON-SHORTING

4、ELECTRICAL CHARACTERISTICS (电气性能规格) :

ITEM 项目		TEST CONDITIONS 测试条件	PERFORMANCE 规格
4.1	CONTACT RESISTANCE 接触电阻	MEASURED AT SMALL CURRENT(100mA OR LESS) 在微小电流(100mA)以下测试.	70mΩ MAX. 70 毫欧以下.
4.2	INSULATION RESISTANCE 绝缘电阻	APPLY A VOLTAGE OF 250V DC FOR 1 MIN. TO FOLLOWING PORTIONS AFTER WHICH MEASUREMENT SHALL BE MADE. (1) BETWEEN BODY AND TERMINAL. (2) BETWEEN TERMINALS. 输入 250V DC 电压 1 分钟, 按以下接触方法测试: (1) 外壳与排脚之间. (2) 端子之间.	100MΩ MIN. 100 兆欧以上.
4.3	DIELECTRIC STRENGTH 耐电压	AC250V(50-60Hz)FOR 1 MIN TRIP CURRENT:0.5mA BETWEEN TERMINALS. BETWEEN INDIVIDUAL TERMINALS AND FRAME. 输入 AC 250V(50-60Hz) 电压, 1 分钟感度电流为 0.5mA, 按以下接触方法测试: (1)排脚相互之间 (2)排脚与外壳之间.	WITHOUT DAMAGE TOPARTS ARCING OR BREAKDOWN ETC 没有绝缘破坏等异常

5、MECHANICAL CHARACTERISTICS (机械性能规格)

ITEM 项目		TEST CONDITIONS 测试条件	PERFORMANCE 规格
5.1	OPERATING FORCE 作动力	Push at root of knob 在压柄最顶端测试	250gf ± 100
5.2	TERMINAL STRENGTH 端子强度	A STATIC LOAD OF(300gf)SHALL BE APPLIED TO THE TERMINAL FOR 15 SEC, IN ANY DIRECTON. 在排脚前端任意一个方向加(300gf)力度测试, 时 间为 15 秒.	MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED WITHOUT LOOSENESS OF ACTUATOR. 在端子中没有裂开, 松动 等异常, 满足于机械、电器 性能.
5.3	DISPLACEMENT OF ACTUATOR (KNOB) 胶柄强度	A STATIC LOAD OF 10N(1Kgf)SHALL BE APPLIED TO THE TOP OF THE ACTUATOR(KNOB)AND THEN DESPLACEMENT SHALL BE MEASURED TO THE DIRECTION OF THE ARROW. 在柄的前端施加 1Kgf 的力度, 位移应沿印记的方向上定.	THE LEVER SHALL HAVE NO SERIOUS DEFORMATION AND FUNCTION IS NORMALLY. 柄部无严重变形, 可以正常工作



6、ENDURANCE CHARACTERISTICS (耐久性) :

ITEM 项目		TEST CONDITIONS 测试条件	PERFORMANCE 规格									
6.1	LIFE TEST 寿命试验	ENDURANCE WITHOUT LOADING: A SWITCH SHALL BE SUBJECTED TO 10,000 CYCLES AT A SPEED OF 15 TO 18 CYCLES PER MINUTE WITHORT LOADING. 无负荷: 在无负荷的条件下以每分钟 15—18 回的速度进行 10,000 次的测试.	(1) CONTACT RESISTANCE(接触电阻) 100mΩ MAX. 100 毫欧以下. (2) INSULATION RESISTANCE(绝缘电阻) 50MΩ MIN. 50 兆欧以上.. (3) WITHSTAND VOLTAGE(耐电压) AC 500V, 1 MINUTE. AC 500V 1 分钟 (4) OPERATING FORCE(作动力) ±30%INITIAL VALUE. 变化范围初始值±30% (5) WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC. (测试后外表无损伤, 并且满足机械性能)									
6.2	SOLDERA-BILITY TEST 可焊性试验	THE TOP OF THE TERMINALS SHALL BE DIPPED 2mm IN THE SOLDER BATH OF 240±5℃ FOR 3±0.5 SECONDS. 端子顶部被浸入锡焊池中 2mm 深, 温度为 240±5℃, 时间为 3±0.5 秒.	(1) SOLDER WELTING TIME SHALLBE 3 SEC OR LESS. 焊接时间少于 3 秒 (2) THE AREA OF SOLDERING SHOULD BE OVER 95% 焊接面积要有 95%以上.									
6.3	RESISTANCE TO SOLDERING HEAT TEST 耐焊性试验	(1). TEMPERATURE AND IMMERSING TIME 温度及浸锡时间 <table><tr><td></td><td>TEMPERATURE 温度 (℃)</td><td>TIME 时间 (S)</td></tr><tr><td>DIP SOLDERING 浸 锡</td><td>260±5</td><td>3±0.5</td></tr><tr><td>MANUAL SOLDERING 手 焊</td><td>380±10</td><td>3±0.5</td></tr></table> (2) IMMERSION DEPTH: IMMERSION DEPTH UP TO THE SURFACE OF THE BOARD THICKNESS OF PRINTED WIRING BOARD 1.6mm. 浸锡深度: 浸锡深度至基板 (PCB) 表面, 基板厚度为 1.6mm.		TEMPERATURE 温度 (℃)	TIME 时间 (S)	DIP SOLDERING 浸 锡	260±5	3±0.5	MANUAL SOLDERING 手 焊	380±10	3±0.5	WITHORT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS ELECTRICAL CHARACTERISTCS SHALL BE SATISFIED. 本体无变形, 能满足于机械、电气性能。
	TEMPERATURE 温度 (℃)	TIME 时间 (S)										
DIP SOLDERING 浸 锡	260±5	3±0.5										
MANUAL SOLDERING 手 焊	380±10	3±0.5										
6.4	COLD TEST 耐冷试验	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF -25±3℃ FOR 96 HOURS. THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE. 放置在温度-25±3℃中 96 小时后, 再放置常温中 1 小时来进行测试.	THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. 外观无异常, 满足于机械、电气性能									



6.5	HEAT TEST 耐热试验	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF $70 \pm 2^{\circ}\text{C}$ FOR 96 HOURS. THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE. 放置在温度 $70 \pm 2^{\circ}\text{C}$ 中测试 96 小时后, 再放置正常室温中 1 小时来测定.	THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. 外观无异常, 满足于机械、电器性能.
6.6	HUMIDITY TEST 潮湿试验	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF $40 \pm 2^{\circ}\text{C}$ AND A HUMIDITY OF 90% TO 95% FOR 96 HOURS. THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITION FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE. 放置 $40 \pm 2^{\circ}\text{C}$ 的相对湿度为 90%~95% 环境中 96 小时后, 再将样板放在正常环境 1 小时后进行测试.	
6.7	STANDARD ATMOSPHERE CONDITIONS 测试标准状态	UNLESS OTHERWISE SPECIFIED. THE STANDARD RANGE OF ATMOSPHERE CONDITIONS FOR MAKING MEASUREMENTS AND TESTS ARE AS FOLLOWS: (1) AMBIENT TEMPERATURE: 5°C TO 35°C (2) RELATIVE HUMIDITY: 45% TO 85% (3) AIR PRESSURE : 86Kpa TO 106Kpa 在没有指定的情况下测试温度、湿度、气压如下: (1) 温度为 5°C — 35°C . (2) 湿度为 45%—85%. (3) 气压为 86Kpa—106Kpa.	
6.8	PRACTICAL TEMPERATURE RANGE 使用温度范围	AT -16°C — $+60^{\circ}\text{C}$. 在 -16°C — $+60^{\circ}\text{C}$ 内使用.	