



规格书

SPECIFICATION

CUSTOMER NAME	客户名称:	
CUSTOMER NO.	客户编号:	
SERIES	系 列:	迷你型滑动开关
MODEL NO.	型 号:	XB-MSK-24D02
DRAWING NO.	图 形 号:	Mini Slide 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

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.alpsr.cn/> <http://www.alpsr.com/>

Dong Guan XB ElectronicsCo., Ltd

AccountNumber: 705540238

BankName: CitibankN.A.,HongKongBranch

Country/Region: Hong Kong

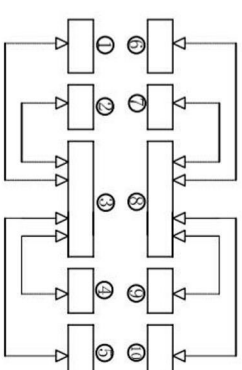
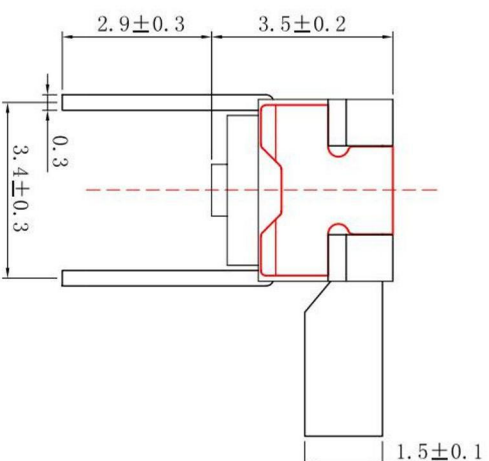
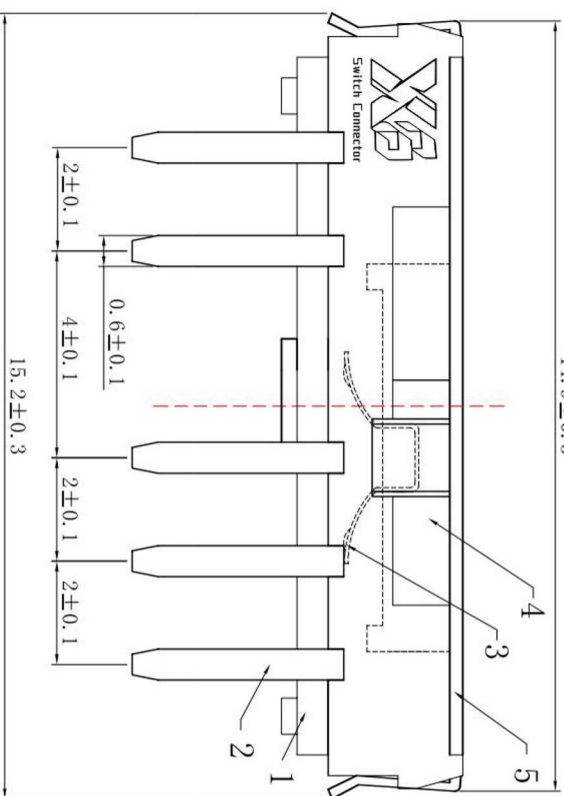
BankCode:006

BankAddress: 3GardenRoad, Central, Hong Kong

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

MAiL: HK@ALPSR. CN XB@ALPSR. CN

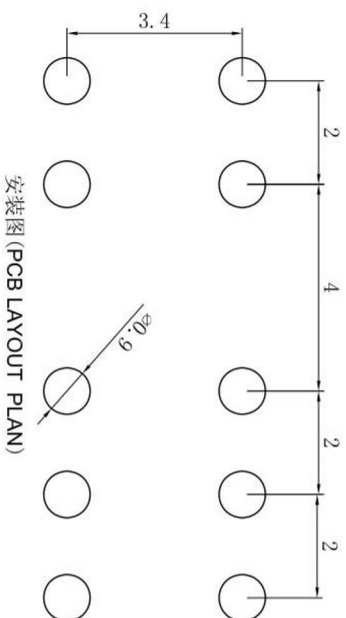
Quality core! Afterburner for Made in China!

 14.9 ± 0.3 

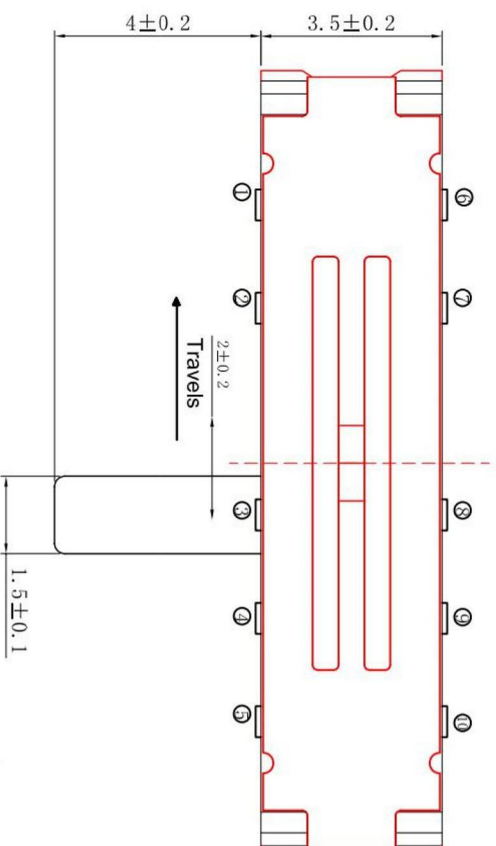
电路图 (CIRCUIT DIAGRAM)

技术参数、性能:

- 1: 额定负荷: 电流、电压100mA DC12V
- 2: 接触电阻 $<100\text{m}\Omega$
- 3: 绝缘阻抗DC100V, $>50\text{M}\Omega$
- 4: 动作力 $200\text{gf} \pm 70\text{gf}$
- 5: 拨动行程 $2\text{mm} \pm 0.2\text{mm}$
- 6: 寿命10,000次



安装图 (PCB LAYOUT PLAN)



注：“*”表示关键尺寸(5个)。

		TOLERANCE				
		UNLESS SPECIFIED				
		WITHIN 1.5mm : ±0.1mm OVER 1.5mm : ±0.2mm	A	2022-01-11		
			ISSUE	DATE		
8						
7						
6						
5						
4	SPRING	PBS	1	NATURAL		
3	COVER	SUS	1	Ag PLATED		
2	CASE	PPA/BRASS	1	BLACK/Ag PLATED		
1	KONB	PPA	1	WHITE		
NO.	PARTS	MATERIALS	Q'TY	FINISH		
TOLERENCE UNLESS SPECIFIED WITHIN 1.5mm : ±0.1mm OVER 1.5mm : ±0.2mm A 2022-01-11 ISSUE DATE DESCRIPTIONS OF REVISION APPD. 初版 DWG NO.: XB-MSK-24DO2 刘锦泳 曾小伟 曾鹏 2022-01-11 2022-01-11 2022-01-11 XB东莞市溪榜电子有限公司Switch Connector DONG GUAN XI BANG ELECTRONI CS CO., LTD.APK'DCHK'DAPPD.曾鹏2022-01-11MODEL:XB-MSK-24DO2SCALE:8:1DWN.OJSCHEG						



东莞市溪榜电子有限公司

DONG GUAN XI BANG ELECTRONICS CO., LTD.

文件编号

XB-SP-09008

发布日期

2009 年 04 月 22 日

SPECIFICATION 规格书

第 A 版

第 1 页 共 3 页

TITLE (产品系列): TRAVEL MINI SLIDE SWITCHES

MODEL NO. (产品名称): XB-MSK-24D02

P/N (产品编号):

1. RATING (额定值): DC 6V 0.3A

2. FUNCTION (接触型式): 2 POLES, 2 THROWS

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	INITIAL CONTACT RESISTANCE 初始接触电阻	1000Hz MEASURED AT SMALL CURRENT(100 mA 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 500V DC FOR 1 MIN. TO FOLLOWING PORTIONS AFTER WHICH MEASUREMENT SHALL BE MADE: (1) BETWEEN BODY AND CONDUCTOR (2) BETWEEN CONDUCTORS NOT TO BE CONTACT 输入 500V DC 电压 1 分钟,按以下接触方法测试: (1) 接触端子之间. (2) 插座体与排脚之间.		100MΩ MIN. 100 兆欧以上.	
4.3	DIELECTRIC STRENGTH 耐电压	AC 500V rms(50-60Hz)FOR 1 MIN TRIP CURRENT:0.5 mA (1) BETWEEN TERMINALS. (2) BETWEEN INDIVIDUAL TERMINALS AND FRAME. 输入 AC 500V(50-60Hz) 电压,1 分钟感度电流为 0.5 mA,按以下接触方法测试: (1) 接触端子之间. (2) 插座体与端子之间.		WITHOUT DAMAGE SUCH AS INSULATION BREAKDOWN. 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 WITH DETENT 作动力			200gf ± 100gf	
5.2	TERMINAL STRENGTH 端子强度	A STATIC LOAD OF (300gf) SHALL BE APPLIED TO THE TIP OF THE TERMINAL FOR 1 MIN. IN ANY DIRECTION. 在任意一个方向的先端上加力度(300gf) 1 分钟.		ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED WITHOUT DAMAGE OR EXCESSIVE LOOSENESS OF TERMINALS. 在排脚中没有裂开,松动等异常, 满足于机械、电器性能.	
5.3	STANDARD ATMOSPHERIC CONDITIONS 测试标准状态	UNLESS OTHERWISE SPECIFIED. THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS AND TESTS ARE AS FOLLOWS: (1) AMBIENT TEMPERATURE: 5℃ TO 35℃ (2) RELATIVE HUMIDITY : 45% TO 85% (3) AIR PRESSURE : 80Kpa 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 5~35℃ (2) 湿度为 45%~85% (3) 气压为 80Kpa~106Kpa			



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SPECIFICATION 规格书

第 A 版

第 2 页 共 3 页

5.4

PRACTICAL
TEMPERATURE
RANGE
使用温度范围

-10℃~+60℃
在-10℃~+60℃温度内使用

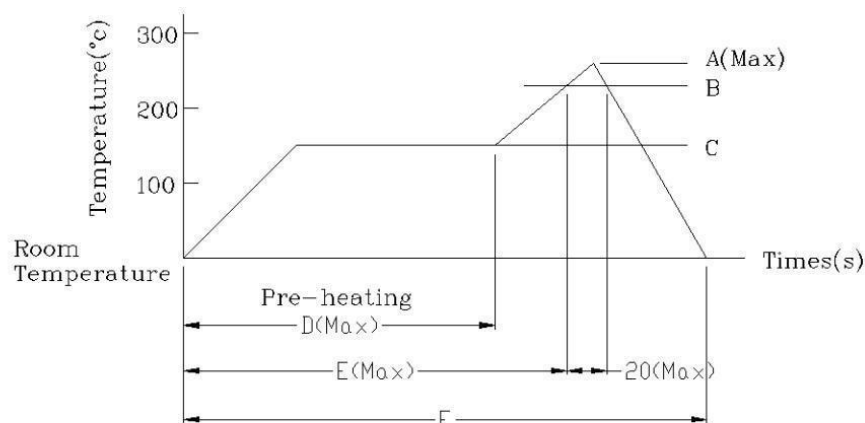
6. ENDURANCE CHARACTERISTICS (耐久性):

ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格
6.1 SOLDERABILITY TEST 可焊性试验	THE TOP OF THE TERMINALS SHALL BE DIPPED 2mm IN THE SOLDER BATH OF 230±5℃ FOR 3±0.5 SECONDS. 端子顶部被浸入锡焊池中 2mm 深, 温度为 230±5℃, 时间为 3±0.5 秒.	THE AREA OF SOLDERING SHOULD BE OVER 75% 焊接面积要有 75%以上.
6.2 RESISTANCE TO SOLDERING HEAT TEST 耐焊性试验	SOLDER BATH METHOD: SOLDER TEMPERATURE 260±5℃IMMERSSION TIME 3±0.5 SEC IMMERSION DEPTH UP TO THE SURFACE OF THE BOARD THICKNESS OF PRINTED WIRING BOARD 0.8 mm DIMENSIONS OF COMPONENT HOLES IN THE PRINTED WIRING BOARD SHALL BEING ACCORDANCE WITH THOSE SPECIFIED IN THIS SPECIFICATION. 焊炉焊接的时候温度控制在 260±5℃, 过炉时间为 3±0.5 秒, 于基板厚度为 0.8mm	THERE SHALL BE NO DEFORMATION OF THE SWITCH. MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. 本体无变形, 满足于机械、电气性能。

6.3

EXAMPLE OF
REFLOW
SOLDERING
CONDITION
回流焊方式参
考举例

- 1.HEATING METHOD: DOUBLE HEATING METHOD WITH INFRARED HEATER;
加热方式: 为远红外线加热的上下加热方式;
- 2.TEMPERATURE MEASUREMENT: THERMOCOUPLE 0.1TO 0.2ΦCA(K) OR CC(T) AT SOLDERING PORTION(COPPER FOIL SURFACE); AHEAT RESISTING TAPE SHOULD BE USED FOR FIXED MEASUREMENT;
温度测量方式: 用Φ0.1-Φ0.2 的 CA(K) 或 CC(T) 进行测量, 在焊接的连接部位置(铜箔面)测量, 固定方式使用耐热胶带;
- 3.TEMPERATURE PROFILE:
温度分布:



A(°C)	3s MAX	B(°C)	C(°C)	D(s)	E(s)	F(s)
250		230	150	120	--	180MAX



6.4	LIFE TEST 寿命试验	WITHOUT LOAD: AN ACTUATOR SHALL BE SUBJECT TO 10,000 CYCLES AT A SPEED OF 15 TO 18 CYCLES FOR 1 MIN. 无负荷: 操作者以每分钟 15~18 次的频率作 10,000 回之无 负荷测试.	(1) CONTACT RESISTANCE SHALL BE 130 mΩ MAX. (2) MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. (1) 接触电阻不能超于 130 mΩ (2) 其它、满足于机械、电器性能
6.5	COLD TEST 耐冷试验	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF $-20\pm 3^{\circ}\text{C}$ FOR 96 HOURS AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE. 放置在温度 $-25\pm 3^{\circ}\text{C}$ 中 96 小时后,再放置常温常湿中 1 小时来测定.	THERE SHALL BE NO DAMAGE ON APPEARANCE. MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. 外观无异常, 满足于机械, 电器性能.
6.6	HEAT TEST 耐热试验	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF $80\pm 2^{\circ}\text{C}$ FOR 96 HOURS. AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE. 放置在温度 $85\pm 2^{\circ}\text{C}$ 中测试 96 小时后,再放置正常室温 中 1 小时来测定.	
6.7	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, 再将样版放在正常环境 1 小时后进行测试.	