



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:	按钮开关
MODEL NO.	型号:	XB-KAG-03C21TB
DRAWING NO.	图形号:	Button 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 戴海明 2022. 06. 08 </div>	<div style="border: 1px solid red; padding: 2px; text-align: center;"> 品质部 黄自清 2022. 06. 08 </div>	<div style="border: 1px solid red; padding: 2px; text-align: center;"> 工程部 庞军 2022. 06. 08 </div>	<div style="border: 1px solid red; padding: 2px; text-align: center;"> 总经办 吴量 2022. 06. 08 </div>

东莞市溪榜电子有限公司

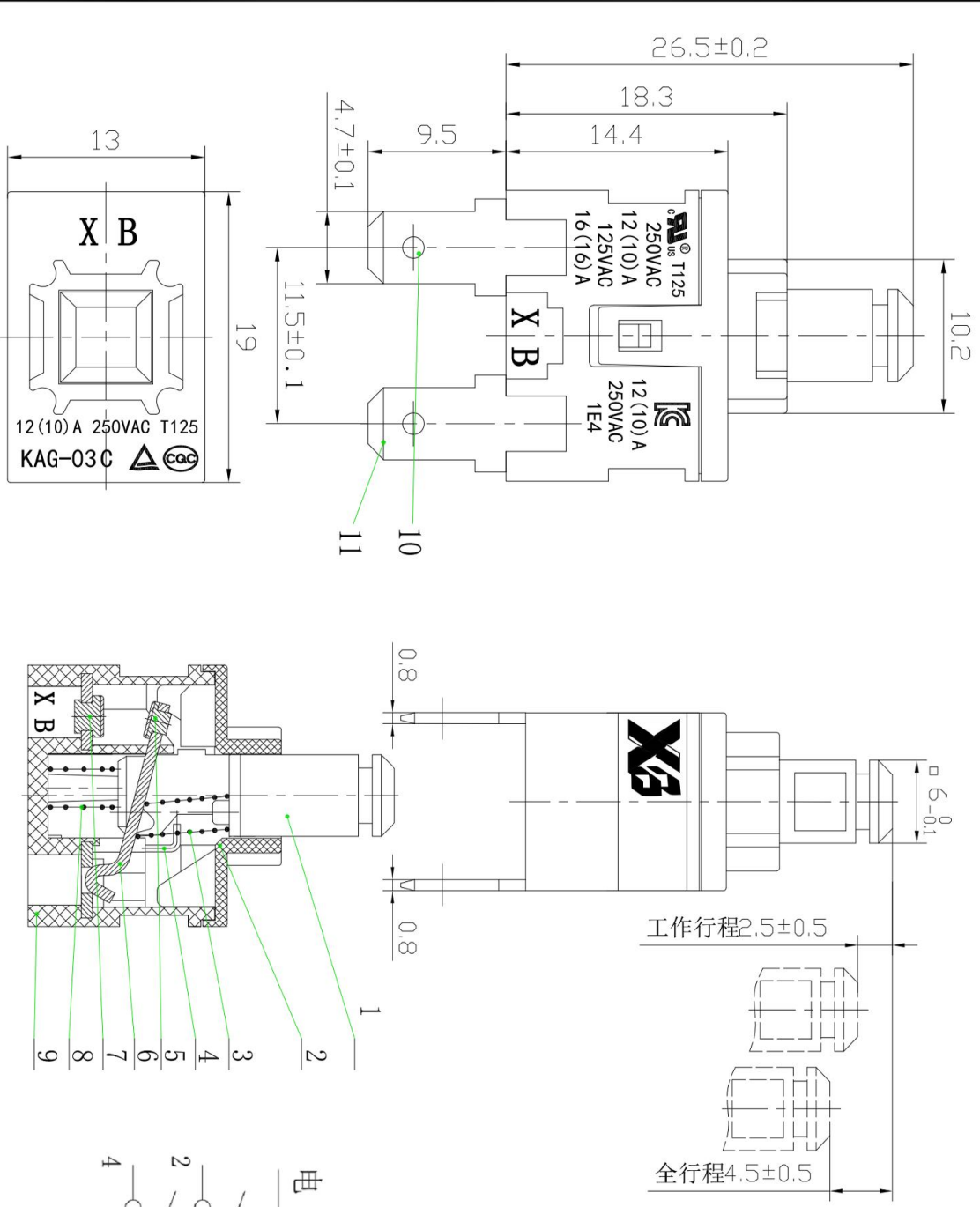
Dong guan Xi Bang Electronics Co., Ltd
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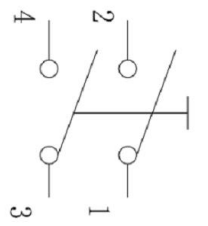
Dong Guan XB Electronics Co., Ltd

AccountNumber: 705540238
 BankName: Citibank N. 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 XB@ALPSR.COM
 Quality core! Afterburner for Made in China!



电原理图



按钮开关技术参数
 额定电流：12A 16A
 额定电压：125V 250V
 接触电阻：50MΩ
 绝缘电阻：100MΩ
 操作力：4-10N
 耐电压：1500V AC
 电气寿命：10000次
 产品认证：UL TUV CE EK ROHS

序号	名称	数量	材质	端子编号	备注
①	静触点	1	AgNi10/Cu	2	
⑩	静片端子	1	H62Y2 t0.8		
⑨	支架端子	1	H62Y2 t0.8	1	D.Ag
⑧	动触点压簧	1	碳素弹簧钢丝70B组		镀白锌
⑦	按钮压簧	1	碳素弹簧钢丝70B组		镀白锌
⑥	动触点	1	AgNi10/Cu		
⑤	动触点片	1	QSn6-5-0.1Y t0.8		D.Ag
④	定位钩	1	不锈钢丝 φ0.5		
③	底座	1	PA66 FR50(黑色)		UL94V-0
②	盖板	1	PA66 FR50(黑色)		UL94V-0
①	按钮	1	PA66 FR50(黑色)		UL94V-0

NO.	PARTS	MATERIALS	Q'TY	FINISH
8				
7				
6				
5				
4	CONTACT	SUS	1	Ag CLAD
3	CASE	PPA/BRASS SRTIP	1	BLACK/Ag PLATED
2	COVER	STEEL STRIP	1	Ni PLATED
1	KNOB	PPA	1	BLACK

TOLERANCE UNLESS SPECIFIED		初版	
WITHIN 1.5mm : ±0.1mm	A	2012-9-25	ZENQ.CHEN
OVER 1.5mm : ±0.2mm	ISSUE	DATE	APPD.
TITLE : Push Switch		DESCRIPTIONS OF REVISION	
MODEL: XB-KAG-03C21TB	SCALE: 5:1	DRWG No.: XB-KAG-03C21TB	
DONG GUAN XI BANG ELECTRONI CS CO., LTD.		DWN. JUN. YANG	2012-9-25
东莞市溪榜电子有限公司		CHK'D DONG. PANG	2012-9-25
Switch Connector		APPD. ZENQ. CHEN	2012-9-25



規 格 書
SPECIFICATION

XB-KAG-03-001

產品名稱 PART NAME	PUSH-BUTTON SWITCH	版本 REV	A	編制 PLANNER	谢冰芯
產品型號 PART NUMBER	XB-KAG-03 series	頁碼 PAGE	1 OF 5	審核 VERIFIED	庞东
				批准 APPROVAL	贺龙飞

1. 一般事項(General affairs)

1-1 適用範圍(Applicable range)

KAG-03 型按鈕開關適用於家用電器或類似電子設備作電路通斷之用。

KAG-03 type PUSH-BUTTON SWITCH is applicable for home appliances or analogy electronic equipment ON and OFF circuit.

1-2 標準狀態(Standard state)

除另規定外，測量應在以下狀態下進行：

Testing at the state as follow accept the special spec.

溫度： 15°C ~ 35°C

Temperature: 15°C ~ 35°C

相對濕度： 45% ~ 70%

Relative humidity: 45% ~ 70%

氣壓： 86KPa ~ 106Kpa

Atmospheric pressure: 86KPa ~ 106Kpa

1-3 使用溫度範圍： -25°C ~ +125°C

Practical temperature range: -25°C ~ +125°C

1-4 環保要求：產品符合歐盟 ROHS 指令的環保要求。

Environment requirement: Products according to ROHS.

2. 外形結構(Appearance and structure)

2-1 外觀：應無明顯收縮、飛邊、劃傷，鍍層均勻，無脫落等現象。

Appearance: It should no obvious shrinking、upset metal、Scrape、plating path well-distributed and no coming off.

2-2 尺寸：按產品圖製作（附外形圖）

Size: Making according to product drawing(drawing attached).

3. 額定值(Rating)

額定負荷：250VAC 12(10)A/125VAC 15A

Rated load: 250VAC 12(10)A/125VAC 15A



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4、電氣性能 (Electricity function)

序號 NO.	項目 Item	條件 Condition	要求 Requirement	備注 Remark
4-1	接觸電阻 Contact resistance	開關內相互接觸的端子之間 Between the contacting terminal of switches.	$\leq 50m\Omega$	
4-2	絕緣電阻 Insulation Resistance	不相連接的各導電件之間、 端子與絕緣外殼之間施加 DC500V Apply DC 500V among non-connecting conductors & terminal and insulator shell	$\geq 10M\Omega$	
4-3	耐電壓 Withstand voltage	不相連接的端子之間、端子 與絕緣外殼之間施加 AC1500V/3000V、100mA、5S Apply AC1500V/3000V、100mA、5S among non-connecting terminal and terminal and insulator shell	無擊穿或飛弧現象 No puncture or flash-over	

5. 機械性能 (Mechanical Function)

序號 NO.	項目 Item	條件 Condition	要求 Requirement	備註 Remark
5-1	動作力 Action force	在按鈕頂端沿開關動作方向加力 Apply force on the top of push-button.	4~10N	
5-2	功能動作 Functional action	在按鈕頂端沿推杆動作方向加力 Apply force on the top of push-button.	開關應動作靈活，無卡住現象 Action of switch should be flexible and no locked	



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產品名稱 PART NAME	PUSH-BUTTON SWITCH	版本 REV	A
產品型號 PART NUMBER	XB-KAG-03 series	頁碼 PAGE	3 OF 5

序號 NO.	項目 Item	條 件 Condition	要 求 Requirement	備註 Remark
5-3	端子強度 Terminal strength	端子前端的任意方向施加 10N 的靜負荷力 10 秒鐘 Apply 10N static electricity load for 10 sec to any direction on the front of terminal	端子不得有明顯裂紋及移位，但允許變形 No obvious crack and replacement on the terminal accept deformation	
5-4	可焊性 Solderability	端子先端浸助焊劑 焊接溫度：235±5℃ 浸錫時間：2±0.5S 浸入深度不超過印製板厚度的二分之一 Put the front of jointing into the soldering flux. Welding temperature: 235±5℃ Steeping tin time: 2±0.5S Immersion depth no more than 1/2 thickness of P.C. Board	沾錫面積≥90% Contaminating tin area≥90%	
5-5	耐焊接熱 Resistance to Soldering heat	端子插入 t1.6mm 印製板並浸助焊劑： 焊接溫度：260±5℃ 浸錫時間：5±1S Put the terminal into t1.6 mm P.C. board and soldering flux: Welding temperature: 260±5℃ Steeping tin time: 5±1S	不得有絕緣體的破損、變形、接觸無異常 No damage, deformation and abnormal touching of insulator.	
5-6	按鈕強度 Push-button strength	在按鈕頂端的軸向和縱向各施加 50N 和 10N 的力保持 10 秒 Apply 10N and 50N load for 10sec to axis and portrait on the top of the push-button	開關應無損傷 Switch should not any damnification	



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SPECIFICATION

XB-KAG-03-001

產品名稱 PART NAME	PUSH-BUTTON SWITCH	版本 REV	A
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6. 耐久性能 (Longevity)

序號 NO.	項 目 Item	條 件 Condition	要 求 Requirement	備註 Remark
6-1	潮濕試驗 Humidity test	溫度 40±2℃、濕度 90~95%的恒溫恒濕中放置 48 小時後，在試驗箱中進行測量 Put products into the constant temperature and humidity container which temperature is 40±2℃, and humidity is 90~95% for 48 hours, test in the equipment.	絕緣電阻: ≥10MΩ; 耐壓: 1500VAC/5S 3000VAC/5S Insulating resistance ≥10MΩ Withstand Voltage: 1500VAC/5S 3000VAC/5S	
6-2	鹽霧試驗 Salt mist test	在溫度為 35±2℃、氯化鈉溶液濃度為 5%±0.1%的鹽霧箱中連續噴霧 24 小時，用清水洗淨後觀測 Put product in the salt mist box with temperature of 35±2℃ and sodium chloride liquor 5%±0.1% to spray for 24 hours, then clean by water to observe	零件表面無明顯的銹蝕 Surface of parts shall not obvious rust severity	
6-3	高溫試驗 Heat test	溫度 125±2℃的恒溫箱中放置 48 小時，在常溫、常濕放置 24 小時測量。 Put product into the constant temperature container which temperature is 125±2℃ for 48 hours, and test after 24 hours in the constant temperature and humidity.	絕緣電阻: ≥10MΩ; 耐壓: 1500VAC/5S 3000VAC/5S 動作力: 4~10N Insulating resistance: ≥10MΩ Withstand Voltage: 1500VAC/5S 3000VAC/5S Action force: 4~10N	
6-4	低溫試驗 Cold test	溫度 -25±2℃的恒溫箱中放置 48 小時，在常溫、常濕放置 24 小時測量。 Put products 48 hours into the constant temperature container which temperature is -25±2℃, and test after 24 hours in the constant temperature and humidity.	絕緣電阻: ≥10MΩ; 耐壓: 1500VAC/5S 3000VAC/5S 動作力: 4~10N Insulating resistance: ≥10MΩ Withstand Voltage: 1500VAC/5S 3000VAC/5S Action force: 4~10N	



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規 格 書

SPECIFICATION

J/HH 002-2008

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序號 NO.	項 目 Item	條 件 Condition	要 求 Requirement	備註 Remark
6-5	振動試驗 Vibration test	振頻=10~55HZ，加速度為5g，振幅0.35mm，在X、Y、Z方向上各2小時。 Vibrational frequency=10~55HZ, acceleration is 50 m/ S ² , amplitude is 0.35mm, test 2 hours at the direction of x、y、z.	開關應無損傷 Switch should not any damnification	
6-6	壽命試驗 Life test	在額定負荷條件下，開關動作10000次，7~10次/分鐘 On the condition of rated load, switch action 10000 times, 7~10 times/min.	接觸電阻: ≤150mΩ; 耐壓: 1000VAC/5S、3000VAC/5S 溫升: ≤55℃ Contact resistance: ≤150mΩ Withstand Voltage: 1000VAC/5S 3000VAC/5S Temperature rise: ≤55℃	

7. 注意事項(Points for attention)

7-1 裝有產品的紙箱或木箱允許用任何方法運輸，唯需避免雨雪直接淋襲和機械撞擊。

Paper box and wood box which load products are allowed to use any way to transport, but should avoid rain and snow and dashing against of machine.

7-2 產品應存放在環境溫度為-10~+40℃，相對濕度不大於80%，周圍空氣不應有酸、堿、硫化物、臭氧、氨氣及其它對產品有害氣體的倉庫內。

Products should storage in the warehouse which air around it mustn't exist which the environmental temperature is -10~+40℃, relative humidity is no more than 80%, and no acid、alkali、sulphide、ozone、ammonia air and other poisonous gas.

包裝規範 Packing Criterion

NO:

產品名稱 PART NAME	PUSH-BUTTON SWITCH	版本 REV	A	編制 COMPILED	
產品型號 PART NUMBER	XB-KAG-03 series	頁碼 PAGE	1 OF 1	審核 VERIFIED	
				批准 APPROVAL	

一、 包裝說明 (Packing Instructions)

1. 內盒包裝 (Inner Box Packing):

(1) 將檢驗好的產品裝入吸塑盒中，每盒 100 只。

Put the parts after inspection into plastic box, 100PCS each box.

(2) 將吸塑盒裝入塑料袋中並密封好，每袋 100 只。

1PCS plastic box be packing in one plastic bag and sealed, 100PCS each bag.

(2) 在袋上放一合格證，合格證上標明產品名稱、規格型號、產品數量、檢驗員蓋章、包裝日期等；

Place one qualified certificate in bag, and show the part name, part NO., quantity, packing date, as well as stamper of checker on certificate;

2. 外箱包裝 (Outer Carton Packing):

(1) 每個紙箱裝 30 個吸塑盒，共 3000 只。

30PCS bag be packed in one carton, total 3000PCS.

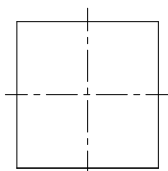
(2) 用膠帶紙封口，打包帶捆紮，外貼一裝箱單；

Seal the box and strap carton, stick the packing list on surface of carton;

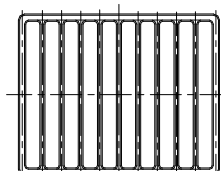
(3) 在裝箱單上標明產品名稱、產品型號、產品數量、包裝日期等。

Show the part name, part number, quantity and packing date on packing list

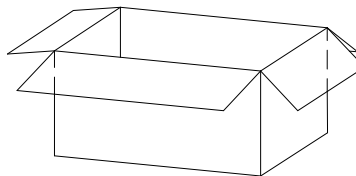
二、 簡圖 (Brief Diagram)



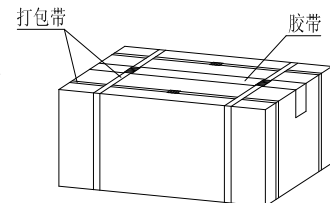
(塑料袋)



(吸塑盒)



(開槽型外紙箱)



打包帶

膠帶