

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 NAM	客户	名称:	<u>, </u>
CUSTOMER NO.	客户组	编号:	
SERIES	系	列:	船型开关单边复位两脚15X21MM
MODEL NO.	型	号:	XB-XW-601AB1 series
DRAWING NO.	图形	纟号:	Rocker Switch with one side reset and two legs 15X21MM

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	k.		N	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	品质部	工程部	总经办
戴海明	黄自清	庞军	吴量
2022, 06, 08	2022, 06, 08	2022, 06, 08	2022. 06. 08

东莞市溪榜电子有限公司

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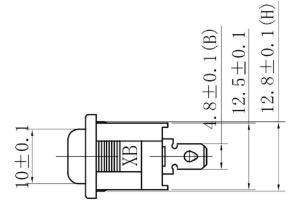
SWIFT/BIC: CITIHKHX(CITIHKHXXXX*If11charactersare

required)

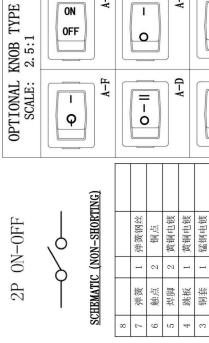
MAIL: HK@ALPSR. CN XB@ALPSR. CN XB@ALPSR. COM

Quality core! Afterburner for Made in China!

ROHS



	500VDC	0V6A	S09/
通断	≥100MΩ	.压: AC250V6A	: ≥1500VAC/60S
A 下 に ・・・	四.	预定电流电压 :	压:
妾触性能:	绝缘电阻:	京市	耐电压:
強	绝	锁	宫



A-E

ON

A-C

Y-Y

A-B

阳燃

名称 数量

序号

PA66 PA66 材料

計 基座

2.0±8.41 (F) (F) (F)	
1.9±0.1 5+0.2 (G) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	15±0.2(E)
21.	21±0.2(D)
2-0.8±0.05(A)	

TITLE: XB ROCKI MM DWN. GAO. PENG 2:1 CHK'D PANG. DONG	个村士沙林 七七七	阳八三					
DONG GUAN XI BANG ELECTRONICS CO., LTD	5元11条伤电丁角	な公旦	8	CONTACT POINT	COPPER	1 Ag CLAD	D
TITLE : XB ROCKER SWITCH ANDBL xB-xxB-xw-601ABI 两脚船型开关单边复位15x21MM 复位翘板开关2脚 有 4 MODBL xB-xxB-xw-601ABI 两脚船型开关单边复位15x21MM 复位翘板开关2脚 TOLERANCE ANGLE TOL 3 DWN. GAO. PENG. DONG DATE TOLERANCE ANGLE TOL 3 CHK'D PANG. DONG DATE 1 2	ING GUAN XI BANG ELECTRONIC	SS CO., LTD	7	SLEEVE	BRASS	1 Ni PLATED	TED
MODEL XB-XR-XW-601ABI 丙脚船型开关单边复位15X21MM 复位翘板开关2脚	XR ROCKER SWITCH		9	SPRING	STEEL WIRE	1 NATURE	
MODBL xB-xW+601AB1 两脚船型开关单边复位15x21MM 复位翘板开关2脚 4 DWN. GAO. PENG DATE TOLERANCE ANGLE TOL 3 CHK'D PANG. DONG DATE 2 2	AD MOONEN SHITCH		\$	SPRING PLATED	COPPER STRIP	1 Ag PLATED	TED
MM DWN, GAO. PENG DATE TOLERANCE ANGLE TOL 3 ANGLE TOLE 3 ANG	AB1 两脚船型开关单边复位15X21MM 复位翘板开	关2脚	4	TERMINAL B	BRASS STRIP	1 Ag PLATED	TED
$2:1$ CHK'D PANG. DONG DATE 0.0 ± 0.3 mm ±2 1		RANCE A	GLE TOL 3	TERMINAL A	COPPER STRIP	1 Ag PLATED	TED
± 2 . I Cum D man ± 2 . ± 2 . ± 2			2	CASE	NYLON	1 BLACK	
-U-	+	0.0 ± 0.3mm	± 2 1	KNOB	NATON	1 BLACK	
VERSION 01 APPD, HE. LONG. FEI DATE NO. PART NAME	NG. FEI DATE		NO	PART	MATERIAL	QTY. FINISHING	ING

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

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日期 DATE

2010-09-08

1. 概述 GENERAL

1.1 系列 DESIGNATION: 船形开关 ROCKER SWITCH

1.2 型号MODULE No.:符合产品标识Shall conform to marking.1.3 电路图CIRCUIT:符合产品图Shall conform to drawing.1.4 额定值RATING:符合产品标识Shall conform to marking.

1.5 使用温度 OPERATING TEMPERATURE RANGE: -10 TO 55℃ 1.6 贮存温度 STORAGE TEMPERATURE RANGE: -20 TO 85℃

2. 外观与尺寸 APPEARANCE AND DIMENSIONS

2.1 外观 APPAERANCE: 无影响产品使用性能的缺陷.

There shall be no defects that affect the serviceability of the product.

2.2 标识 MARKING: 应有商标、型号、额定值、认证标志等标识.

There shall be trademark, module No., rating, license mark and other

necessary mark on the switch body.

2.3 尺寸 DIMENSIONS: 应符合产品图.

Shall conform to drawing.

3. 性能要求 PERFORMANCE

项目 ITEM	测试条件 TEST CONDITIONS	要求 REQUIREMENT
3.1 电气性能 E	ELETRICAL PERFORMANCE:	
3.1.1 通断性能 MAKING AND BREAKING	用通断测试仪测量开关端子间处于闭合和断开状态是否合格。 Use the on-off tester to measure wether the state of closing and disconnecting between the switch terminnals is up to standard	闭合时指示灯亮,断开时灯灭。 When switch closed the indicator light, while switch open the indicator off
3.1.2 绝缘电阻 INSULATION RESISTANCE	触点间的绝缘和功能绝缘: 约DC500V的电压施加在处于断开状态的开关的两触点间和 开关的不同极之间,相同极性的导电件应连接在一起。施 加电压1分钟后进行测量 INSULATION RESISTANCE BETWEEN CONTACT AND OPERATIONAL INSULATION: A d.c. voltage of approximately 500V is applied between the open contacts of each pole of a switch and between the different poles of which all the parts is connected together, the measurement shall be made after the voltage is applied for 1 min.	10MΩ min
	加强绝缘: 约DC500V的电压施加在导电部件和覆在易接触的开关外表面的金属箔及易接触的金属部件之间。施加电压1分钟后进行测量 REINFORED INSULATION: About d.c. voltage of approximately 500V is applied between all live parts and a metal foil covering the outer accessible surface and accessible metal parts, the measurement shall be made after the voltage is applied for1 min.	100MΩ min
3.1.3 介电强度 DIELECTRIC STRENGTH	触点间和各极间的介电强度: 处于断开状态的开关的两触点间和开关的不同极之间,应 能承受基本为正弦波形,频率为50或60Hz的1500V电压1分 钟无击穿或闪络现象。 DIELECTRIC STRENGTH BETWEEN CONTACTS AND BETWEEN DIFFERENT POLES: A voltage of substantially sine wave form, with a frequency of 50 or 60Hz and the value of 1500V is	无击穿或闪络现象 No flashover or breakdown shall occur



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About voltage of substantially sine wave form, having a frequency of 50 or 60ltz and the value of 3000V is applied for 1 min between all live parts and a metal foil covering the outer accessible surface and accessible metal parts. 3.1.4 开关的发热 IEATING 3.1.4 开关的发热 IEATING Application and the subjected to 20 operating cycles with no current flowing. Then the actuating member is left in the most unfavourable "ON" position and the switches are loaded with a current of 1.06 times the maximum rated current for resistive load. The current is maintained at least for one hour or until a constant temperature at the terminal is attained. A temperature is considered to be constant when three successive readings obtained at every 5min of which value indicate no change greater than ±2°C. 3.2 材料性能 MATERIAL PERFORMANCE. 3.2.1 开关材料的耐热性: 均热丝试验 RESISTANCE TO FIRE: GLOW WIRE TEST Application and the surface and the very fine of which value indicate no change greater than ±2°C. 3.2.3 开关材料的耐油性: 均热丝试验 RESISTANCE TO FIRE: GLOW WIRE TEST Application and the surface and the very fine of which value indicate no change greater than ±2°C. 3.2.3 开关材料的耐油性: 均热丝试验 Left parts should be carried out the ball pressure test at the 12°C. 3.2.3 开关材料的耐油性影解性 parts and earthed metal parts and between the live parts and accessible surfaces of a switch shall be carried out the proof tracking witch shall be carried out the proof tracking shall not exceed 2 mm. Extingularly \$\frac{1}{2}\$ \text{Left}\$ \t			
### The different poles. ### The way with a superior of the different poles. ### The way with a superior of the way with a superior of the way. ### The way with a superior of the way. ### The way with a superior of the way. ### The way with a superior of the way. ### The way with a superior of the way. ### The way with a superior of way. ### The way way. ### The way. ###	项目 ITEM	测试条件 TEST CONDITIONS	要求 REQUIREMENT
基本方正弦速形例,频率为50或601k。数值为3000%的电压能加充导电部件和程在开关的易接触外表面的金属路及易接触的金属部件之间应无由穿或闪路现象发生。DELECTRIC STRENGH BETWEER REINFORE INSULATION: About voltage of substantially sine wave form, having a frequency of 50 or 60ltz and the value of 3000% is applied for 1 min between all live parts and a metal foil covering the outer accessible surface and accessible metal parts. 3.1.4 开关的交换 IREATING 3.1.4 开关的交易 IREATING 3.1.4 开关的交换 IREATING 3.1.4 开发材料的同场 IREATING 3.1.4 开关材料的同场 IREATING INTO IREATING I		the different poles.	
#操作件停留在最不利的"閉合"位置、开美通以电流、其 操作件温度不超过85℃; 金屬操作件温度不超过85℃; 参		基本为正弦波形的、频率为50或60Hz、数值为3000V的电压施加在导电部件和覆在开关的易接触外表面的金属箔及易接触的金属部件之间应无击穿或闪络现象发生。 DIELECTRIC STRENGH BETWEEN REINFORE INSULATION: About voltage of substantially sine wave form, having a frequency of 50 or 60Hz and the value of 3000V is applied for 1 min between all live parts and a metal foil covering the outer accessible	No flashover or breakdown
3.2.2 开关材料的耐热 性: 灼热丝试验 RESISTANCE TO FIRE: GLOW WIRE TEST 保持、支持带电导体在其相对位置的非金属零件应能承 受125℃的球压试验,其他零件应能承受75℃的球压试验。 For nometal parts which are in contact with, maintain or retain the live parts in position electrical should be carried out the ball pressure test at the 125℃. The other parts should be carried out the ball pressure test at the 125℃. The other parts should be carried out the ball pressure test at the 75℃. 3.2.3 开关材料的耐漏电起痕特性 RESISTANCE TO TRACKING 在不同极的导电部件之间、导电部件与接地金属部件之间、导电部件与易接触的表面之间有特定的爬电路径的所有非金属部件应能通过175V的耐漏电起痕指数(PTI)测试。 All non-metal parts for which a creepage path is specified between live parts of different polarity, between live parts and accessible surfaces of a switch shall be carried out the proof tracking	开关的发热	将操作件停留在最不利的"闭合"位置,开关通以电流,其值为电阻性负载最大额定电流的1.06倍,试验电流至少维持一小时或维持到端子温度稳定。当每隔5 分钟读取连续的三个读数变化不大于±2℃,即认为温度稳定.测得的温升不应超过45K. First of all, the switches are subjected to 20 operating cycles with no current flowing. Then the actuating member is left in the most unfavourable "ON" position and the switches are loaded with a current of 1.06 times the maximum rated current for resistive load. The current is maintained at least for one hour or until a constant temperature at the terminal is attained. A temperature is considered to be constant when three successive readings obtained at every 5min of which value	操作件温度不超过85℃; 金属操作件温度不超过60℃。 The temperature rise at the terminals shall not exceed 45K. The temperature of actuating members shall not exceed 85℃; Metal actuating members
## P ##	3.2 材料性能 M	ATERIAL PERFORMANCE:	
开关材料的耐热性: 球压试验 RESISTANCE TO HEAT: BALL PRESSURE TEST 3. 2. 3 开关材料的耐漏电起痕特性 RESISTANCE TO TRACKING TRACKING Explored Parts which are in contact with, maintain or retain the live parts in position electrical should be carried out the ball pressure test at the 125℃. The other parts should be carried out the ball pressure test at the 75℃. AT 同极的导电部件之间、导电部件与接地金属部件之间、导电部件与易接触的表面之间有特定的爬电路径的所有非金属部件应能通过175V的耐漏电起痕指数(PTI)测试。 All non-metal parts for which a creepage path is specified between live parts of different polarity, between live parts and accessible surfaces of a switch shall be carried out the proof tracking	开关材料的阻燃 性: 灼热丝试验 RESISTANCE TO FIRE: GLOW		
F电部件与易接触的表面之间有特定的爬电路径的所有非 电起痕特性 RESISTANCE TO TRACKING 「中部件与易接触的表面之间有特定的爬电路径的所有非 金属部件应能通过175V的耐漏电起痕指数(PTI)测试。 All non-metal parts for which a creepage path is specified between live parts of different polarity, between live parts and earthed metal parts and between the live parts and accessible surfaces of a switch shall be carried out the proof tracking	开关材料的耐热 性: 球压试验 RESISTANCE TO HEAT: BALL	受125℃的球压试验,其他零件应能承受75℃的球压试验。 For nometal parts which are in contact with, main- tain or retain the live parts in position electri- cal should be carried out the ball pressure test at the 125℃. The other parts should be carried out	The diameter of the impession shall not
	开关材料的耐漏 电起痕特性 RESISTANCE TO	导电部件与易接触的表面之间有特定的爬电路径的所有非金属部件应能通过175V的耐漏电起痕指数(PTI)测试。 All non-metal parts for which a creepage path is specified between live parts of different polarity, between live parts and earthed metal parts and between the live parts and accessible surfaces of	No flashover or breakdown

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	<u> </u>	
项目 ITEM	测试条件 TEST CONDITIONS	要求 REQUIREMENT
3.3 机械性能 ME	ECHANICAL PERFORMANCE:	
3.3.1 机械强度 MECHANICAL STRENGTH:	将弹簧冲击器的释放能量校准到0.5Nm±0.04Nm,用弹簧冲击器对可触及的表面包括驱动元件进行冲击,对每一个认为薄弱的位置冲击三次。 The spring-operated impact-test apparatus is calibrated to deliver an energy of 0.5Nm±0.04Nm Blows are applied to all accessible surfaces, including actuating members by the test apparatus. For all such surfaces three blows are applied to every point that is likely to be weak. 首先对开关的按钮施加15N的拉力1分钟试图拉脱按钮,然后对所有按钮施加30N压力1分钟。 First a pull of 15N shall be applied for 1 min to try to pull off the actuating number and secondly a push of 30N for 1 min is applied to all actuating member.	试验后不应有影响开关安全和使用的损伤。 There shall be no damages to switch safety and usage
3.3.2 操作性能 OPERATIING PERFORMANCE:	用尽可能慢的速度按动开关的按钮。 To operate the actuating member of a switch as slowly as possible.	开关的动触点只能停留在"闭合"和"断开"的位置,当按钮彩放时,按钮会自动移动到或停留在动触点对应的位置。 The moving contacts of a switch can come to rest only in the "on" and "off" position. When the actuating member is released, it shall move automatically or stay in the position corresponding to that of the moving contacts.
3.3.3 插片端子 的安装强度 THE STENGTH OF TABS:	将80N的轴向压力和98N的轴向拉力依次无冲击地作用在开关的插片上。 A axial push of 80N and a axial pull of 98N shall be applied in turn to the tabs of a switch without jerks.	开关的插片不应出现明显的位移和损伤。 No significant displacemen or damage shall occur.
3.4 耐久性能 EN	NDURANCE:	
3.4.1 提高电压 加速测试 INCREASE- VOLTAGE AT ACCELERATED SPEED:	测试电压 APPLIED VOLTAGE: 1.15倍额定电压 1.15 times of rated voltage 测试电流 APPLIED CURRENT: 额定电流 Rated current 操作循环数: THE NUMBER OF OPRATING CYCLE: 100 功率因数 POWER FACTOR: 0.95±0.05 环境温度 AMBIENT TEMPERATURE: 25±10℃ 操作速率 OPERATING RATE: 30次/分钟 30 operations per minute 操作速度 OPERATING SPEED: 大约80mm/s的线性速度 Approximately 80mm/s for lineal actions	1、所有的动作功能正常。 2、通以额定电流,在周围温度为25±10℃的条件下进行温升测试,端子温升不应超过55K。 3、能够承受3.1.3条要求的75%的介电强度测试。 1. All actions function as normal; 2. The temperature rise test at the terminal carried out under rated current and
3.4.2慢速测试 SLOW SPEED TEST:	测试电压 APPLIED VOLTAGE: 额定电压 rated voltage 测试电流 APPLIED CURRENT: 额定电流 Rate current 操作循环数: THE NUMBER OF OPRATING CYCLE: 100 功率因数 POWER FACTOR: 0.95±0.05	ambient temperature of $25 \pm 10^{\circ}\text{C}$. the temperature risat the terminal does not exceed 55K.

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项目 ITEM		测试条件	TEST CONDI	TIONS	要求	REQUIREMENT
3.4.3加速测试 ACCELERATED SPEED TEST:	操 30次度 30次度 1 ineal 测 操 大 ineal 测 操 CYCL率境作为 下 操 30 作 大 或 逐 乘 次 速 约 8 6 4 7 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6	E OPERATING SIOmm/s的线性速度 actions APPLIED VOLT E APPLIED CURI APPLIED CURI E AMBIENT TEMI E AMBIENT TEMI E THE RATE OF SOME SION OPERATING SION OPERATION OP	ATE: Ions per minute PEED:	0.05 ±10°C	ctric stre the test v 75% the co	ect to the diele- ngth test which oltage shall be rresponding test ecified in clause
		PERFORMANCE:	F		1	
3.5.1可焊性试验 SOLDERABILITY TEST:	The tip	of the termin		30±5℃,时间3S。 pped 2mm in the sec.	覆盖。 A new unif solder sha minimum of	75%以上表面将被锡 orm coating of 11 cover a 75% of the ing immersed.
3.5.2 耐焊接热试验 RESISTANCE TO SOLDERING HEAT TEST:	基板的馬 SOLDER I Solder the thic 手工焊接 ±0.5S, SOLDERII Control Applica	的温度控制在260 更为1.6mm。 BATH MOTHOD: temperature 26 ckness of PCB 泛方法: 泛的时,温度控约 但不能在端子上 NG IRON MOTHO temperature 3 tion time 3.5; excessive pre	50±5℃;Immers 1.6mm. 制在350±5℃, 流施加异常力。 DD: 350℃±5℃; ±0.5sec;	接的时间5±0.5S, on time 5±0.5s. 焊接时间3.5	气性能要求 Without di or excessi terminals,	storation of case ve looseness of Electrial and characteristics
4、开关的标	sa Dia sa		THE SWITCH	1	I .	
	144 MIVI	材料名称 MAT	A SPACE OF THE PARTY OF THE PAR	-	MANUFACTURE	R
零件名称 PARTS		14.1 1 11.10. mill	品图	V 1/ [H]	附产品图	