



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-MPS21-WBBDD-R
 DRAWING NO. 图形号: Power 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
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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MAil: HK@ALPSR.CN XB@ALPSR.CN XB@ALPSR.COM
 Quality core! Afterburner for Made in China!

ROHS

CAD FILE:

WHITE

BLACK

REF travel

Total travel

Detent position

Date code week year

Dimensions: 6.0 ± 0.2 , 4.0 ± 0.2 , 1.5 , 1.0 , 4.0 , 24.5 ± 0.3 , 14.6 ± 0.2 , 9.1 , 8.6 , 0.8 ± 0.05 , 12.3 , 6.5 , $16A 125/250VAC$, $3/4HP 125/250VAC$, 3.2 , 4.8 ± 0.05 , 1.5 , 2.3 ± 0.2 , $16(4)A 125/250V \sim T125/55 5E4$, $(REF 4.5 \sim 0.2)$, 26.8 ± 0.3 , 19.0 , 17.3 ± 0.05 , 13.1 , 13.1 , 0.5 , 3.1 ± 0.1 , 5.6 ± 0.1 , 10.0 ± 0.1 , 5.0 ± 0.2 , 19.0 , 12.0 ± 0.2

NOTES :

1. Circuit : ON/OFF
2. Operation force : $800 \pm 300gf$
3. Rating : $16A 125/250VAC 3/4HP 125/250VAC(CUL)$
 $16(4)A 125/250V \sim T125/55 5E4 (ENEC17;NEMKO;CB)$
 $16(4)A 250 \sim T125/55 1E4 (CQC)$
4. Contact resistance : $< 30m\Omega$
5. Insulation resistance : $> 100M\Omega(500VDC \text{ between open contacts})$
6. Dielectric strength : $> 1500Vac 0.5mA 1 \text{ minute}$
7. Actuator color : WHITE
 Housing color : BLACK

CIRCUIT DIAGRAM:

8				TOLERANCE							
7				UNLESS SPECIFIED							
6				WITHIN $1.5mm : \pm 0.1mm$ OVER $1.5mm : \pm 0.2mm$	A	2012-9-25	初 版	ZENQ. CHEN	APPD.		
5				TITLE :	Push Switch		ISSUE	DRWG NO.:			
4	CONTACT	SUS	1	MODEL:	XB-MPS21-WBDD-R	DATE	SCALE: 5:1	DWN. JUN. YANG	2012-9-25		
3	CASE	PPA/BRASS SRTIP	1							CHK'D DONG. PANG	2012-9-25
2	COVER	STEEL STRIP	1							APPD. ZENQ. CHEN	2012-9-25
1	KNOB	PPA	1							APPD. ZENQ. CHEN	2012-9-25
	NO.	PARTS	MATERIALS	Q'TY	FINISH						

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DONG GUAN XI BANG ELECTRONICS CO., LTD

电源按键式开关 测试规格

XB-MPS21 SERIES SWITCHES TEST SPECIFICATIONS

1. APPLICATION (适用产品):

THIS SPECIFICATION IS APPLIED TO POWER SWITCHES USED FOR ELECTRONIC EQUIPMENT.

* 这份规格适用于电子产品的电源开关.

2. OPERATING TEMPERATURE RANGE (操作温度范围):

TEMPERATURE RANGE 0~125°C * 温度范围 0~125°C

SAVEING TEMPERATURE RANGE (保存温度范围):

TEMPERATURE RANGE 0~35°C * 温度范围 0~35°C

3. TEST CONDITION (测试环境):

THE SWITCH IS TESTED AT A TEMPERATURE RANGE OF 5~35°C AND RELATIVE HUMIDITY RANGE OF 45~85%.

* 环境温度范围: 5 ~ 35°C

* 相对湿度范围: 45 ~ 85%

4. RATING (额定):

(1). 16A 125/250VAC; 3/4HP 125/250VAC FOR CUL

(2). 16(4)A 125/250V~T125/250 FOR ENEC17/NEMKO/CB

(3). 16(4)A 250V~T125/55 FOR CQC

5. ELECTRICAL PERFORMANCE (电气性能):

5-1. CONTACT RESISTANCE (接触电阻):

MEASURED BY FALL OF POTENTIAL METER AT DC 0.2 V/1A SHOULD BE LESS THAN 50mΩ INITIAL.

* 以微电阻计在 DC 0.2V/1A 的测试规格值下, 接触电阻值应该小于 50mΩ

5-2. INSULATION RESISTANCE (绝缘电阻):

MEASURED WITH DC 500V APPLIED BETWEEN TERMINALS OF OPEN CONTACTS AND BETWEEN TERMINALS OF OPPOSITE POLARITY, SHOULD BE MORE THAN 100MΩ.

* 绝缘电阻计于 DC 500V 设定值下量测于开路的端子或不同回路的端子,

其绝缘电阻值应该大于 100MΩ.

5-3. DIELECTRIC STRENGTH (耐电压):

THE SWITCH SHALL WITHSTAND WITHOUT BREAKDOWN A POTENTIAL OF AC 1500V FOR 1-MINUTE BETWEEN TERMINALS OF OPEN CONTACTS AND TERMINALS OF OPPOSITE POLARITY, AC 3000V FOR 1 MINUTE BETWEEN TERMINALS AND METAL COVER.

* 不同极的两支端子开路时, 必须通过一分钟 1500VAC 的耐电压.

* 端子与金属外壳, 必须通过一分钟 3000VAC 的耐电压.

6. OVERLOAD AND ENDURANCE TEST (过负载寿命测试):

THE SWITCH SHALL BE OPERATED ACCORDING TO FOLLOWING TABLE

* 开关应该依照下列表格的操作方式进行测试.

CUL STANDARD (北美标准)

CONDITION 测试状况	VOLTAGE 测试电压	CURRENT 测试电流	P. F. 功率因素	OPERATION SPEED 操作速率	NUMBER OF OPERATION 操作次数	SAFETY APPLICATION 适用安规
OVERLOAD 过负载	125VAC	20A	0.75~0.8	8 CYCLES PER MINUTE 每分钟 8 次	50 CYCLES 50 次	CUL
	250VAC					
ENDURANCE 寿命测试	125VAC	16A	0.75~0.8	8 CYCLES PER MINUTE 每分钟 8 次	6000 CYCLES 6000 次	CUL
	250VAC					

EUROPE STANDARD (欧洲标准)

INCREASED VOLTAGE TEST AT ACCELERATED SPEED (增加伏特数的加速测试)

CONDITION 测试状况	VOLTAGE 测试电压	CURRENT 测试电流	P. F. 功率因素	OPERATION SPEED 操作速率	NUMBER OF OPERATION 操作次数	SAFETY APPLICATION 适用安规
MAKING 闭路	287.5VAC	27.6A	0.6	15CYCLES PER MINUTE 每分钟 15 次	100 CYCLES 100 次	ENEC17/NEMKO/CB/ CQC
BREAKING 开路		18.4A	0.95			

TEST AT LOW SPEED (低速测试)

MAKING 闭路	250VAC	24A	0.6	15 CYCLES PER MINUTE 每分钟 15 次	100 CYCLES 100 次	ENEC17/NEMKO/CB/ CQC
BREAKING 开路		16A	0.95			

TEST AT ACCELERATED SPEED (加速测试)

MAKING 闭路	250VAC	24A	0.6	15 CYCLES PER MINUTE 每分钟 15 次	9800 CYCLES 9800 次	ENEC17/NEMKO/CB/ CQC
BREAKING 开路		16A	0.95			

7. TEMPERATURE TEST (温升试验) :

THE TEMPERATURE TEST SHOULD BE TAKEN AFTER ENDURANCE TEST WITH ITS RATED CURRENT AND VOLTAGE. THE TEMPERATURE RISING SHALL NOT BE MORE THAN 55°C.

* 温升测试应该于寿命测试结束后随即测试，以同样的电流与电压量测，温升值必须低于摄氏 55°。

8. MECHANICAL PERFORMANCE (机械性能):

8-1. OPERATION FORCE (操作力量): 800gf ± 300gf

A STATIC FORCE BEING APPLIED IN ONE DIRECTION ON THE TIP OF ACTUATOR. PERFORMANCE AS PER INDIVIDUAL SPECIFICATIONS.

* 固定的力量运用于同一方向在柄的顶端，依照个别开关的特性实行。

8-2. STOPER STRENGTH (柄的强度):

(1) A STATIC LOAD OF **8 Kgf** BEING APPLIED IN THE OPERATION DIRECTION FOR **15 SECONDS**.
 A STATIC LOAD OF **4 Kgf** BEING APPLIED IN THE DIRECTION OF PULLING FOR **15 SECONDS**. THERE SHALL NOT BE ANY TROUBLES AS DEVIATION AND BENDING.

- 以 8Kgf 的力量, 施压 15 秒以及以 4Kgf 的力量, 拉 15 秒. 不可以有偏向与弯曲的情形

(2) ACTUATOR SWAY(操作部的晃动):

在操作部的前端, 从在和操作部成 90 度, 180 度相反方向施加 1N(102gf)的操作力, 柄晃动在 1.5mm 以内

8-3. SOLDERING (焊锡特性):

IMMERSE THE TERMINAL LEADS INTO MOLTEN SOLDER AT TEMPERATURE OF $230\pm 5^{\circ}\text{C}$ FOR 3 ± 0.5 SECONDS. MORE THAN 75% OF PART IMMersed SHOULD BE COVERED WITH SOLDER.

- * 端子浸入 $230\pm 5^{\circ}\text{C}$ 温度溶化的焊锡中 3 ± 0.5 秒, 75%以上的部分应该被焊锡包覆.

8-4. TERMINAL STRENGTH (端子强度):

A STATIC FORCE OF **8.5 KGF** BEING APPLIED IN ONE DIRECTION ON THE TIP OF THE TERMINAL FOR 1 MINUTE. THE TERMINAL MAY BE DEFORMED, BUT SHALL NOT SUSTAIN ANY TROUBLE AS DEVIATION AND BREAKING OF TERMINAL, AND BREAKING OF INSULATION MATERIAL.

- * 施以固定 8.5Kgf 的力量于同一方向在端子的顶端一分钟, 端子允许变型, 但是不可以有任何位移(偏向)与端子断裂及绝缘材料的破裂.

8-5. SOLDERING HEAT RESISTANCE OF BASE (基座抗热性):

TEMPERATURE AND DURATION OF DIPPING 焊锡温度与持续时间

TYPE OF TERMINAL 端子型式	TEMPERATURE 温度	DIPPING TIME 焊锡时间
TERMINAL FOR PCB WIRING * PCB 端子	$260\pm 5^{\circ}\text{C}$	5 SECONDS Max.
TERMINAL FOR LEAD WIRING * 焊线端子	$350\pm 5^{\circ}\text{C}$	3 SECONDS Max.

THERE SHALL NOT BE EXTREME DEFORMING IN APPEARANCE.

ELECTRICAL PERFORMANCE OF THE ABOVE ITEM 3 SHALL BE ASSURED.

- * 基座不可以有极度变形状况发生.
- * 上文第 3 项的电子性能应该被保证.

REVISED DATE	DESCRIPTION	REVISED BY	FILE NO.	WRITE BY	CHECKED BY	APPROVED BY
			SPEC-009	阮霓展 2012. 4. 6	路建宏 2012. 4. 6	高鹏 2012. 4. 6
			VERSION			
			A 版 0 次			