

# 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:	
CUSTOMER NO.	客户:	编号:	
SERIES	系	列:	金属摇臂开关系列
MODEL NO.	型	号:	XB-TM16 (Φ16mm) series
DRAWING NO.	图形	纟号:	Metal rocker switch series

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		
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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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required)

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Quality core! Afterburner for Made in China!

Switch Connector	东莞市沿	奚榜电子		文件编号		XB-RD-001	
	DONG GUAN X	I BANG ELECTR	D	版	号	A-5	
	XB-TM16 (¢	Þ16mm) SERIH	ES检验规范总则	J	页	次	1/3
审核	庞东	批准	贺龙飞	生效日期		月期	2024. 02. 18

#### 1. General 一般事项:

1-1 Application: This specification is applied to the switch used in electronic equipment. 适用范围: 本规格主要适用于一般电子设备之开关。

- 1-2 Operating Temperature Range 使用温度范围: -20℃~85℃ Operating Humidity Range 使用湿度范围: 10%~85%;
- 1-3 RH 相对湿度: 45~85%.
- 1-4 Atmospheric Pressure 气压: 860~1060mbr.
- 1-5 Storage temperature and humidity requirements 储存温湿度要求:

Temperature 温度:-5~30℃

Humidity 湿度: 20%~75%

#### 2.Appearance Construction and Dimensions 外观、结构、尺寸:

- 2-1 Appearance: Push button switch shall have good finishing, and shall have no rust, crack or plating failure. 外观:各部分之加工须良好,开关上下不能生锈、刮伤、裂痕电镀不良及剥离等现象产生。
- 2-2 cleansing condition: Switch's surface shall avoid contact with oil sludge and shall not be exposed to the air for a long time.

清洁条件:避免开关表面与空气长时间接触及油渍水溶剂沾污。

2-3 Construction and Dimensions: As per product drawing.

结构及尺寸: 依组立图。

#### 3. Rating 电器等级:

3A 250VAC; 5A 125VAC:

4.Electronic performance 电器性能:

	Property	Test Conditions	Standards
	项目	测试条件	判定标准
4.1	Contact Resistance	Measure by micro-ohm meter at DC <u>0.2</u> V, <u>1A</u>	Max <u>50</u> m Ω
	接触阻抗	以微欧姆计之 DC <u>0.2</u> V <u>1A</u> 测之.	<u>50</u> m Ω 以下
4.2	Insulation Resistance 绝缘阻抗	Measure with DC.500V applied between terminals of open contacts and between terminals of opposite polarity. 以 <u>50</u> 0VDC 于开路之端子间,及不同回路端子间.	More than <u>100</u> M Ω <u>100</u> M Ω 以上
4.3	Dielectric withstand Strength Test 耐电压		A switch shall withstand for 1 minute without breakdown or arc in a potential applied 1 分钟内不能有电弧导通或火花产生



# 东莞市溪榜电子有限公司

## DONG GUAN XI BANG ELECTRONICS CO., LTD

Metal button switch series

检验规范总则

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### 5.Mechanical performance 机械性能:

	Property 项目		Test Conditions 试验条件	Standards 判定标准
5.1	Pull test 拉力测试	A static force of 6. direction on the tip c 拉力测试:施拉以同子前端一分钟.	of the terminal for	The terminal may be deformed, but shall not sustain any trouble as deviation and breaking of terminal and breaking of insulation material 端子可允许变型,但不能有脱离,断裂及开关本体之绝缘部位破坏现象
5.2	Terminal strength 端子强度测试	A static load of <u>3kgf</u> tip of the terminal , terminal of the 在开关端子上施以	there is no subs	Electrical characteristics shall be satisfied, there shall be no distinct looseness or deformation in mechanical system 满足电气性能,机械性能方面没有明显的松动和变形。
5.3	Operating Force 操作力	The switch should be force of 450gram±15 开关能够在 450g±	50gram	Tolerance: ±150g
5.4	Soldering condition 焊锡条件	Temperature and du时间: Terminal of lead 导线端子 Manual Soldering 手工焊锡 Note 注意: 1.This product is stressed reflow soldering, processing, temper seconds; 本产品严禁使用波峰温度为350±5℃,时2.Products after sold avoid solvent to imperformance. 产品焊接后,严禁用品内部影响性能。	Temperature 温度( $^{\circ}$ C) $350\pm5^{\circ}$ C  strictly prohibited we please use the ature of $350\pm5^{\circ}$ C at $^{\circ}$ E $^{\circ}$	No abnormalities shall be observed in appearance and operation. 外观无显着变型及动作无异常.



# 东莞市溪榜电子有限公司文件编号XB-RD-001DONG GUAN XI BANG ELECTRONICS CO., LTD版号A-5

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Metal Button Switch series 检验规范总则	页	次	3/3

5.5	Mechanical life test: 无负载机械寿命测 试	The switch applied without electric load 未施电器负载的情况下测试	The switch should operate at least 50,000 times, without mechanical failure 开关动作次数超过 50,000 次
5.6	Load life test: 负载寿命测试	The switch applied electric load 电器负载的情况下测试	The switch should operate at least 10,000 imes, without mechanical failure 开关动作次数超过10,000次
5.7	Travel 行程	Push by recommended operating condition:1.2±0.4mm 行程:1.2±0.4mm	Tolerance: ±0.4mm
5.8	Waterproof test 防水测试	Panel IP67 waterproof test 面板 IP67 防水测试	Switch function is normal, no water inside. 开关功能正常,内部无进水现象.
5.9	Torque test 扭力测试	Torque wrench or related equipment testing 扭力扳手或相关仪器测试	Torque range: 扭力范围: 5~14NM

#### 6 Weather Proof耐候性

	Property	Test Conditions	Standards
	项目	试验条件	判定标准
6.1	Cold Proof 耐寒性	Inlet socket for testing being kept in the normal condition at $-20 \pm 2$ °C for 96 hours, then to be measured within 1 hour after drops of water being taken away.	1.Max Contact Resistance: $50 \text{ m} \Omega$
		-20±2℃放置 96 小时试验后,置于常温常湿中 1 小时;除去水滴后,在一小时内测试之。	接触阻抗: <u>50</u> m Ω 以下
6.2	Hot Proof 耐热性	Inlet socket for testing being kept in the normal condition at $85 \pm 2$ °C for 96 hours, then to be measured within 1 hour. $85 \pm 2$ °C 放置 96 小时试验后,置于常温常湿中 1小时;在一小时内测试之。	2.Clause 4.3shall be satisfied 必须满足 4.3 项
6.3	Resistance to humidity 耐湿性	Inlet socket for testing being kept in the normal condition at $40\pm2$ °C, and $90$ ~95%HR for 96 hours, then to be measured within 1 hour after drops of water being taken away. $40\pm2$ °C, 相对湿度 $90$ ~95%下,放置 96 小时试验后,置于常温常湿中 1 小时;除去水滴后,在一小时内测定之。	3.No abnormalities shall be observed on the appearance and construction 外观构造无异常现象。

Website: www.alpsr.cn www.alpsr.com Website: www.gdxjdz.com www.xbswitch.com

#### TM16 系列号 Series HOW TO ORDER 采购识别码 13 23 , No \ NC 开关功能 ONO Function ONO 13 ONO S. METAL BUTTON SWITCH XB-TM16 SERIES 6P 3P R Z 发光形状 Light Type None 不特切 环状 8 G 4 $\pi$ Z $\pi$ Lamp Color Blue Green Without LED Red White Lamp Type Yellow 灯颜色 灯类型 w日色 緑色 红色 黄色 蓝色 6 220 5 24 12 6 w Z Lamp Voltage 灯电压 Without LED 1107 220V 24V 12V 67 3V Z S > ₩ **Body Material** Brass SUS Al Alloy Zn Alloy 外壳材质 铝合金 锌合金 不锈钢 黄银 w 6 12 0 Body Type S 外壳类型 Blast sanding CD Pattern Yellow oxidation Black oxide Velour Chrome plated Mirror Gold plated Mirror Nickel plated Mirror Chrome plated 镜面镀铬 Without Surface Plated Surface Plated 表面处理 镜面镀金 镜面镀镍 氧化黄色 经领格 CD 纹 安器 煲黑 本色

The material contained in this drawing is the property of XiBang. Any use other than that specifically authorized by XiBang i5 prohibited. The above drawing IS subjected to change for improvement without prior notice.

Red oxidation

氧化红色

VERSION	.	CCAIR . 2.	MM : TINU		Switch Connector						
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APPD.	CHW 1	CHZ/D	DWN.	MODEL :		TITLE .					
FEI. LONG. HE	FENG. GAO	DENIC CAO	ZENQ. CHEN		me i circ bo	TITLE . METAL PHIES RUTTON SWITCH	DONG GUAN	不元二	七些十		
DATB	מומט	DATE	DATE		11011	TTON SWI	I XI BANG	J绕伤	华子 巫小二		
					A CIL	TCH	DONG GUAN XI BANG ELECTRONICS CO., LTD	<b>本元川侯伤巴</b> 1 有限公司	巨V即与左中		
>=10mm±0.3	> 1.5mm±0.2	<=1.5mm±0.1	TOLERANCE			7	D		3.0		
	±5°		ANGLE	(	1	)					
NO.	1	2	to	4	υı	6	7				
NO. PART NAME	KNOB	TERMINAL	FRAME	CONTACT CLIP	BOARD	STEBL BALL	SPRING				
MATERIAL	POM	BRASS STRIP	IRON STRIP	PBS STRIP	PHENOLIC RESIN	STEEL	STEEL WIRE				
QTY.	1	90	L	2	ы	ш	1				
FINISHING	BLACK	Ag PLATED	NI PLATED	Ag PLATED	NATURE	NATURE	NATURE				