

# 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	召称:	
CUSTOMER NO.	客户编	<b>扁号:</b>	
SERIES	系	列:	锂电池金属按钮开关系列
MODEL NO.	型	号:	XB-PTM19 (Φ19mm) series
DRAWING NO.	图形	号:	Lithium battery metal Button 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		
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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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-PTM19 (	Ф19mm) SERIE	ES 检验规范总贝	页 次	1/3
审核	庞东	批准	贺龙飞	生效日期	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:

50mA DC 24V DC

#### 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	between terminals of open contacts and between terminals of opposite polarity, and between terminals and frame as following.  开关须施以一分钟电压于开路之端子与端子间,不同两极之端子间及外壳与端子间,以下列额定电压测之.  1500 volts for a switch rated more than 250VAC 额定 250VAC 以 1500 伏特测之	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

文件编号 XB-RD-001 版 号 A-5 页 次 2/3

### 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 $^{\circ}$ 足和回流焊,请使用间为 $3\pm0.5$ 秒;dering, do not use a shilltrate—inside—the	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 | DONG GUAN XI BANG ELECTRONICS CO., LTD | 版 号 |

Metal Button Switch series 检验规范总则

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A-5

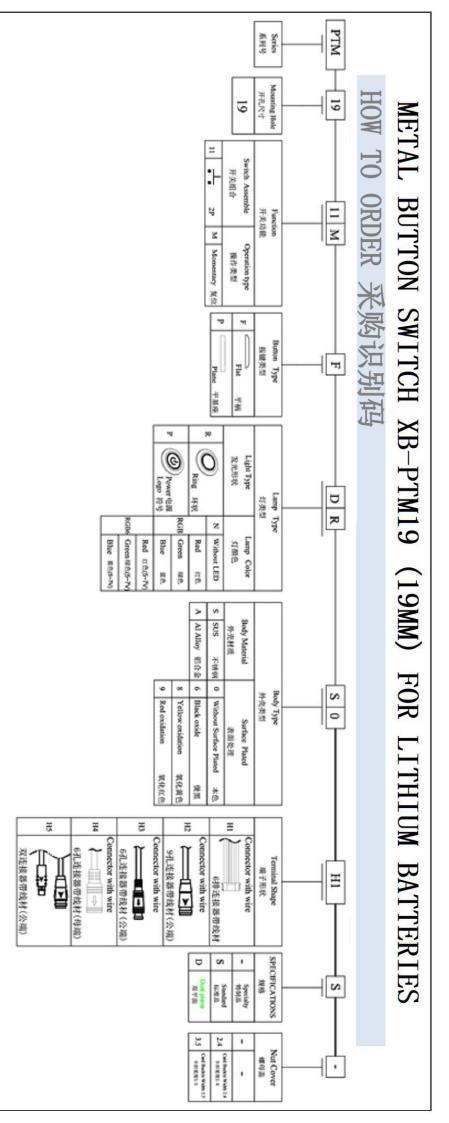
XB-RD-001

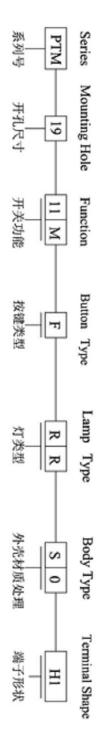
5.5	Mechanical life test: 无负载机械寿命测 试	The switch applied without electric load 未施电器负载的情况下测试	The switch should operate at least 1000,000 times, without mechanical failure 开关动作次数超过 1000,000 次
5.6	Load life test: 负载寿命测试	The switch applied electric load 电器负载的情况下测试	The switch should operate at least 1000,000 times, without mechanical failure 开关动作次数超过 1000,000 次
5.7	Travel 行程	Push by recommended operating condition:0.8-1.0mm 行程:0.8-1.0mm	Tolerance: ±0.1mm
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
		Inlet socket for testing being kept in the normal	
		condition at $-20 \pm 2$ °C for 96 hours, then to be	
6.1	Cold Proof	measured within 1 hour after drops of water being	
0.1	16.1 1	taken away. -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。	1.Max Contact Resistance: <u>50</u> m Ω 接触阻抗: <u>50</u> m Ω 以下
		Inlet socket for testing being kept in the normal	
	Hot Proof	condition at $85 \pm 2$ °C for 96 hours, then to be	2.Clause 4.3shall be satisfied
6.2	耐执性	measured within 1 hour.	必须满足 4.3 项
		85±2℃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。	
		Inlet socket for testing being kept in the normal	3.No abnormalities shall be observed on
		condition at $40\pm2^{\circ}\text{C}$ , and $90\sim95\%\text{HR}$ for 96 hours,	the appearance and construction
	Resistance to	then to be measured within 1 hour after drops of	,
6.3	humidity	water being taken away.	
	耐湿性 	40±2℃,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。	

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





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VERSION 0	-	CCATH . 2.	MM : TINU		Switch Connector						
91	<u> </u>				T						
APPD.	CHW TO	U ABD.	DWN.	MODEL :		TITLE :					
FEI. LONG. HE	FENG. GAO	DENIC CAO	ZENQ. CHEN	TITLE : METAL PUHS BUTTON SWITCH MODEL :			DONG GUAN	4元二	<b>大</b>		
DATB	מומט	DATE	DATE			市溪榜 N XI BAN					
						ITCH		DONG GUAN XI BANG ELECTRONICS CO., LTD	<b>亦元川侯伤巴</b> 1	巨公即与乙甲	
TOLERANCE <=1.5mm±0.1 . > 1.5mm±0.2 . >=10mm±0.3						D					
	±°		ANGLE	•							
NO.	1	2	tu	4	v		7	7			
PART NAME	KNOB	TERMINAL	FRAME	CONTACT CLIP	BOARD	SIEBL BALL	CTEDI DAII	SPRING			
MATERIAL	POM	BRASS STRIP	IRON STRIP	PBS STRIP	STEBL PHBNOLIC RESIN PBS STRIP		Dana	STEEL WIRE			
QTY.	1	00	-	2	1	. -	4	1			
FINISHING	BLACK	Ag PLATED	NI PLATED	Ag PLATED	NATURE	NATURE	NATIOD	NATURE			