



规格书

SPECIFICATION

CUSTOMER NAME	客户名称:	
CUSTOMER NO.	客户编号:	
SERIES	系 列:	VR电位器
MODEL NO.	型 号:	XB-3DVR series
DRAWING NO.	图 形 号:	Potentiometer

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

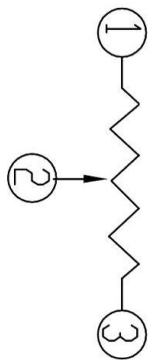
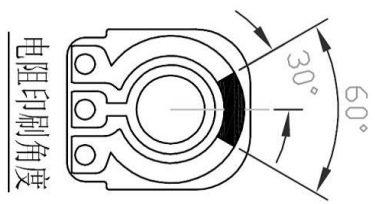
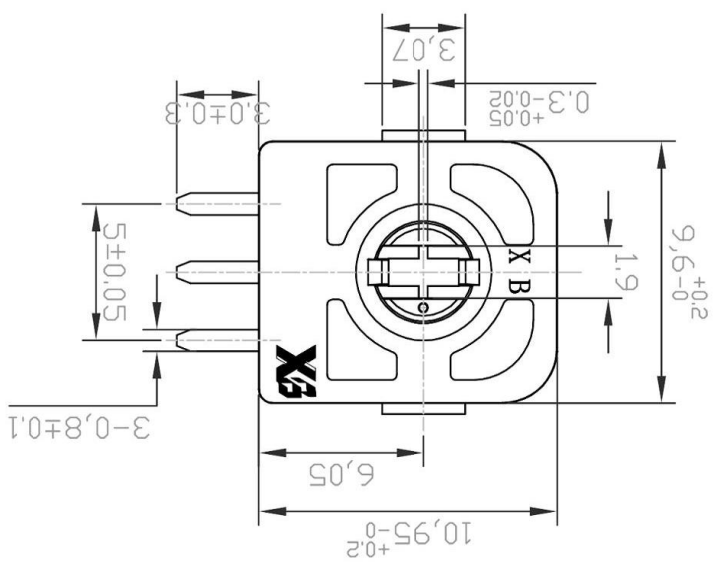
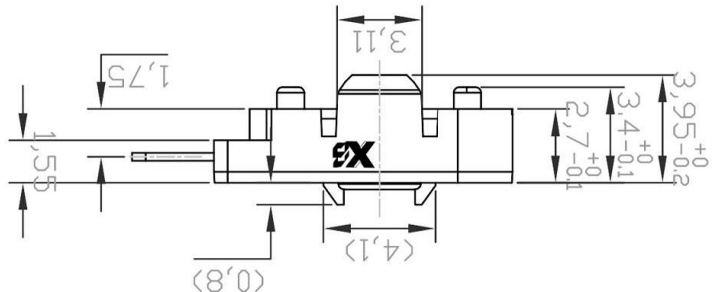
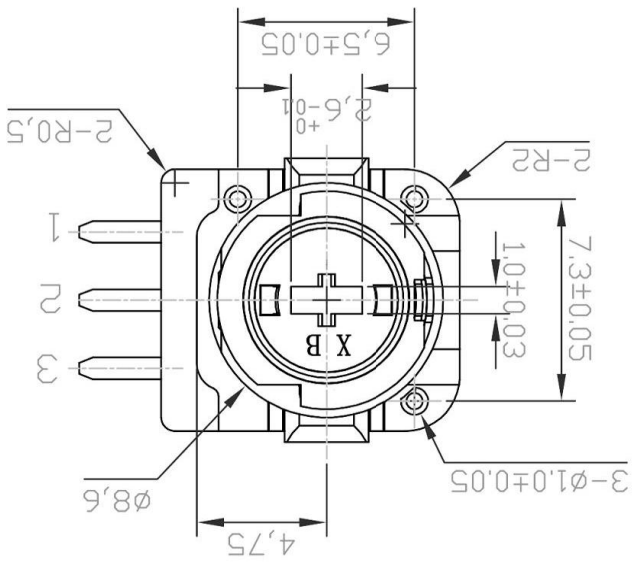
东莞市溪榜电子有限公司

Dong guan Xi Bang Electronics Co., Ltd
地址: 广东省东莞市黄江镇合路工业区
Address: He Lu Industrial Zone, Huangjiang Town
, Dongguan City, Guangdong Province
Tel: (0769)82055138/82056828
Fax: (0769)83663452

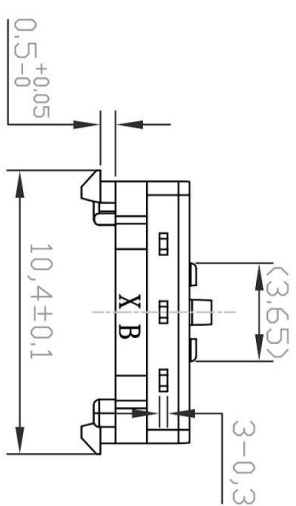
邮箱: admin@alspr.com switch@alspr.com
<http://www.alspr.cn/> <http://www.alspr.com/>

Dong Guan XB ElectronicsCo., Ltd

AccountNumber: 705540238
BankName: CitibankN.A., HongKongBranch
Country/Region: Hong Kong
BankCode: 006
BankAddress: 3GardenRoad, Central, Hong Kong
SWIFT/BIC: CITIHKHX (CITIHKHXXXX*If 11 characters are required)
Mail: HK@ALPSR.CN XB@ALPSR.CN XB@ALPSR.COM
Quality core! Afterburner for Made in China!



电路图



8					TOLERANCE					
7					UNLESS SPECIFIED					
6					WITHIN 1.5mm : ±0.1mm	A	2012-9-25	初 版		ZENQ. CHEN
5					OVER 1.5mm : ±0.2mm	ISSUE	DATE	DESCRIPTIONS OF REVISION		APPD.
4	CONTACT	SUS	1	Ag CLAD	TITLE		POTENTIOMETER		UNIT : mm	DRWG NO.: XB-3DVR
3	CASE	PPA/BRASS SRTP	1	BLACK/Ag PLATED	MODEL:		XB-3DVR		SCALE: 5:1	DWN.
2	COVER	STEEL STRIP	1	Ni PLATED						JUN. YANG
1	KNOB	PPA	1	BLACK						DONG. PANG
NO.	PARTS	MATERIALS	Q'TY	FINISH						CHK'D
										DONG. CHEN
										2012-9-25



东莞市溪榜电子有限公司

Switch Connector

DONG GUAN XI BANG ELECTRONI CS CO., LTD.

APPD.

ZENQ. CHEN

2012-9-25

1. General Characteristics 1.1 Shape and dimensions In accordance with the outline and dimension drawing. 1.2 Operating temperature range $-10^{\circ}\text{C} \sim +75^{\circ}\text{C}$ 1.3 Conserving temperature range $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$ 1.4 Test conditions Ordinary temperature ($5 \sim 35^{\circ}\text{C}$) Ordinary humidity ($45 \sim 85\%$) Ordinary atmospheric pressure ($86 \sim 106\text{kPa}$)			1. 一般特性 1.1 形状尺寸 见附图 1.2 使用温度范围 $-10^{\circ}\text{C} \sim +75^{\circ}\text{C}$ 1.3 保存温度范围 $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$ 1.4 测试条件 常温 (温度 $5 \sim 35^{\circ}\text{C}$) 常湿 (湿度 $45 \sim 85\%$) 常压 (气压 $86 \sim 106\text{kPa}$)	
2. Mechanical Characteristics			2. 机械特性	
	Item 项目		Measuring condition 测试条件	Specifications 规格
Rotation operation	2.1	Electricity travel 电气行程	In effect angle 印刷电阻有效角度	$60^{\circ} \pm 5^{\circ}$
回转操作	2.2	Operating force 动作力	Measure the rotation torque 测试旋转力矩	$\leq 30\text{gf.cm}$
3. Electrical characteristics			3. 电气特性	
	Item 项目	Measuring condition 测试条件		Specifications 规格
3.1	Rating 额定值	Power rating(70°C) 70°C 时额定功率 W		0.05W
		Max operating voltage (virtual value of direct current or alternating current) 极限电压 (直流或交流峰值有效值) V		50V
3.2	Residual resistance 残留电阻	Measurement shall be made separately when potentiometers rotate at 1 terminal and 3 terminal. 电位器旋至 1 与 3 端时分别测试		$R_{1,2} \leq 500\Omega$ $R_{2,3} \leq 500\Omega$

Item 项目		Measuring condition 测试条件	Specifications 规格
3.3	Resistance error 总阻误差	Measurement shall be made at 1、3 terminals of resistance 在电阻体的 1、3 端测试	B2.3K ±30%
3.4	Contact resistance 接触阻抗	Sum of terminal 1-2 resistance plus terminal 2-3 resistance and minus terminal 1-3 resistance and eliminate $2 \leq \text{total resistance} \times 30\%$. 端子 1-2 的阻值加上端子 2-3 的阻值之和减去端子 1-3 的阻值再除以 2 的值小于或者等于全阻值的 30%。 $\{(R_{12}+R_{23}-R_{13}) \div 2 \leq \text{全阻值} \times 30\%\}$	
3.5	Insulation resistance 绝缘电阻	Measure to Apply DC250V. (Between terminal for reinforcing and the other terminals) DC250V 测试	100MΩ min. 不小于 1MΩ
3.6	Withstand voltage 耐电压	Apply A.C250V for 1min. (Between terminal for reinforcing and the other terminals) A.C110V 1 分钟	No damage. Arc and dielectric breakdown. 无损伤、电弧和电故障

4. Endurance

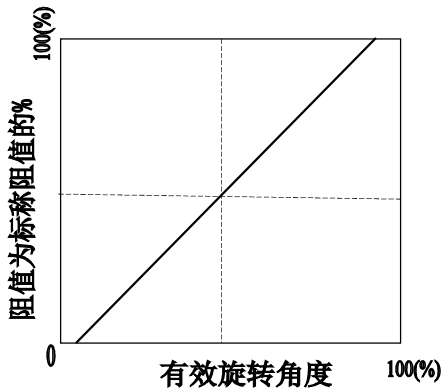
4. 耐久特性

Item 项目		Measuring condition 测试条件	Specifications 规格
4.1	Heat resistance 耐热特性	Temperature $85 \pm 2^{\circ}\text{C}$ Time 96 hours After that , leave in ordinary temp and humidity for an hour. Then measure. 温度 $85 \pm 2^{\circ}\text{C}$ 时间 96 小时 然后放置在常温和湿度下一个小时再测试。	Item 2.2 3.2 3.3 3.4 3.5 The same as the initial spec. 项目: 2.2 3.2 3.3 3.4 3.5 同初始规格
4.2	Moisture resistance 耐湿特性	Temperature $40 \pm 2^{\circ}\text{C}$ Humidity 90~95%Rh Time 96 ± 4 hours After that , leave in ordinary temp and humidity for an hour. Then measure. 温度 $40 \pm 2^{\circ}\text{C}$ 湿度 90~95%Rh 时间 96 ± 4 小时 然后放置在常温和湿度下一个小时再测试。	The same as above. 同上

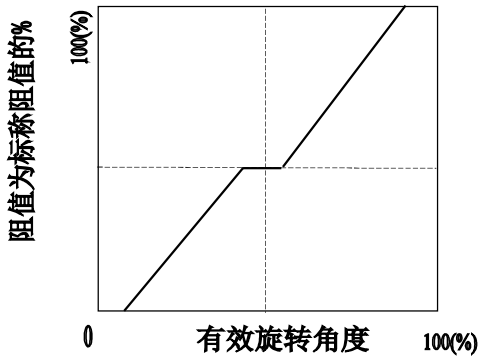
Item 项目	Measuring condition 测试条件	Specifications 规格
4.3 Low temperatu -re resistance 耐寒特性	Temperature $-20\pm3^{\circ}\text{C}$ Time 96 ± 2 hours After that , leave in ordinary temp and humidity for an hour. Then measure. 温度 $-20\pm3^{\circ}\text{C}$ 时间 96 ± 2 小时 然后放置在常温和湿度下一个小时再测试。	The same as above. 同上
4.4 Operation life 操作寿命	Operation times 2000,000T Reciprocate 2000,000 times at a speed of 10 ~ 15 times reciprocation per minute with no-load in the ordinary temp and humidity. 操作次数 2000,000T 在常温、常湿, 无负载的情况下, 以每分钟往复 10~15 次的速度进行 2000,000 次	Item 2.2 3.2 3.3 3.4 The same as the initial spec. Item 3.3 $\Delta R\leq 25\%R$ 项目 2.2 3.2 3.3 3.4: 同初始规格 项目 3.3 $\Delta R\leq 25\%R$

附图：
(线性规律)

- 一
- 二



(一)



(二)

设计：高鹏

审核：庞东

批准:贺龙飞

日期：2024-1-8

印 章

东莞市溪榜电子有限公司

DONG GUAN XI BANG ELECTRONICS CO.,LTD