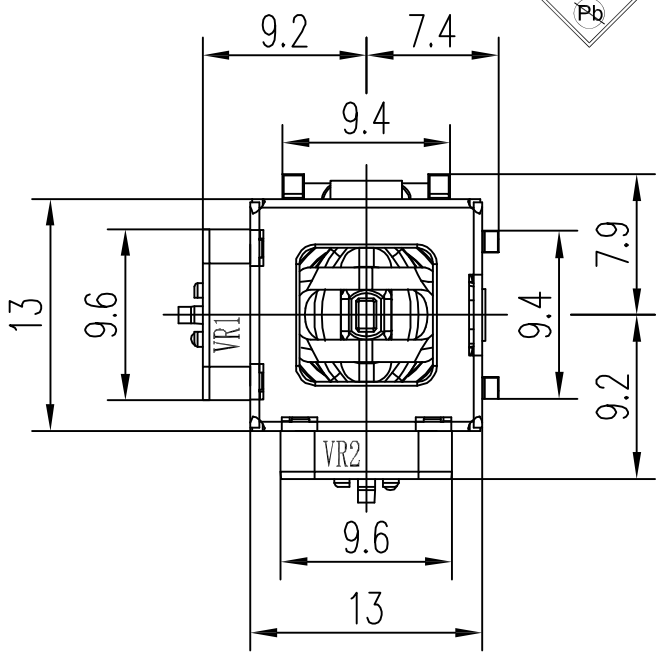
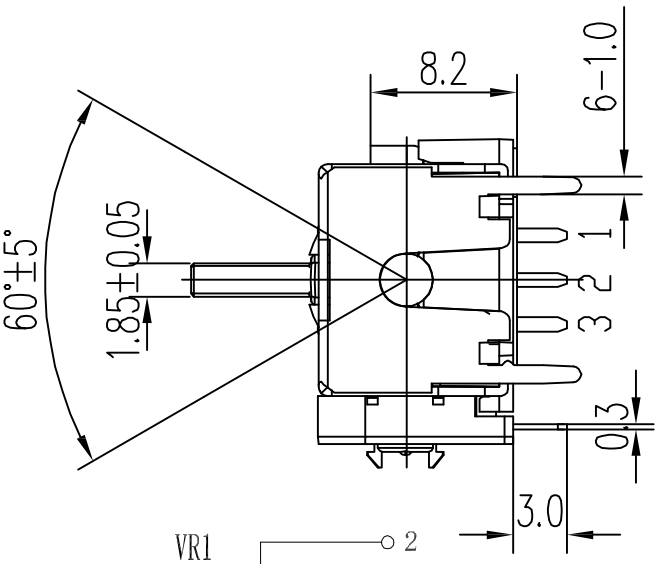
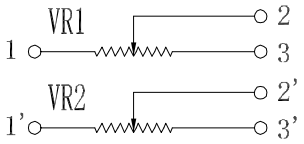
REV	EC No.	DESCRIPTION	Symbol	DATE
A	/	new release	/	Sep. 12, 2021

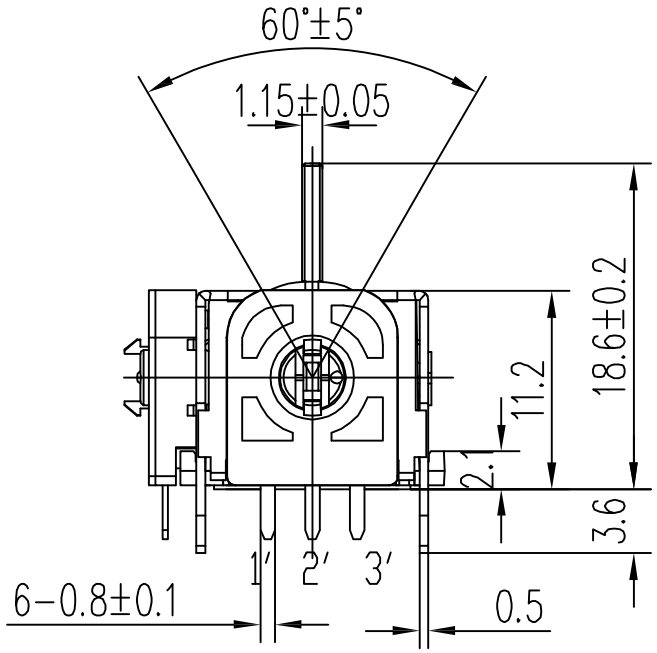
RoHS Compliant Pb



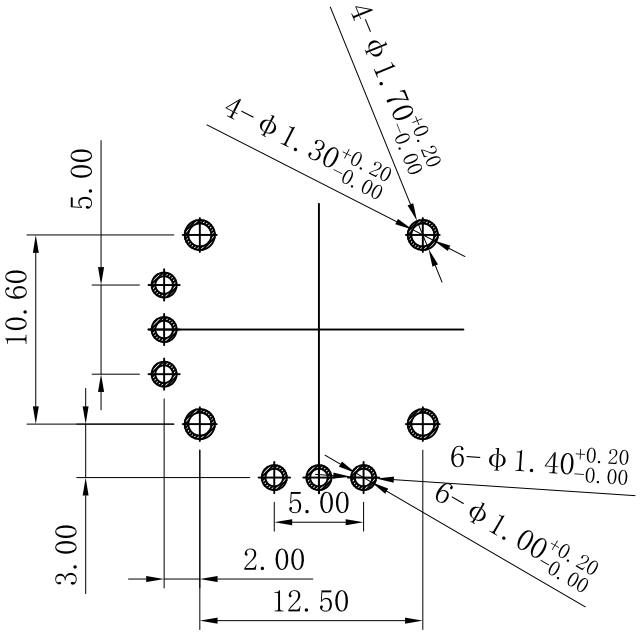




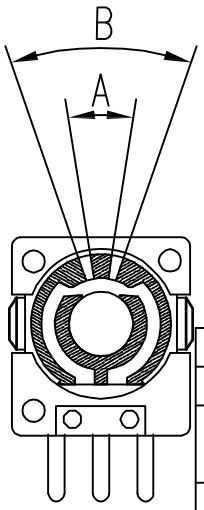
CIRCUIT:VR



PACKAGE:TRAY, 100PCS/TRAY,
2500PCS/CARTON



RECOMMENDED PCB LAYOUT
TOL.:±0.05



A(银抽头角度) ±2°			
0°		6°	
7°		8°	
10°	■	12°	
B(碳有效角度) ±2°			
22°		26°	
32°		34°	
35°		38°	
45°	■	50°	
55°		60°	

For more information, please feel free to contact Neal. His email is :connmold@foxmail.com Tel:18922965797

WWW.connmold.COM

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DIMENSION UNITS	TOLERANCE	
MM	X±0.50	.XX±0.25
	.X±0.35	.XXX±0.15

PART NAME: POTENTIOMETER 5KΩ 13mm*13mmTYPE

DRWN:Robert	Sep. 12, 2021	
CHK'D:Yuri	Sep. 12, 2021	PART NUMBER: CMPTM661001 / REVISION: A
APPR:Lee	Sep. 12, 2021	
THIRD ANGLE PROJECTION	CUSTOMER P/N: /	CUSTOMER: GENERAL MARKET / SHEET NUMBER: 1 OF 1

1．General Characteristics 1.1 Shape and dimensions In accordance with the outline and dimension drawing. 1.2 Operating temperature range －10℃～＋75℃ 1.3 Conserving temperature range －20℃～＋85℃ 1.4 Test conditions Ordinary temperature (5~35℃) Ordinary humidity (45~85℃) Ordinary atmospheric pressure (86~106kPa)	1．一般特性 1.1 形状尺寸 见附图 1.2 使用温度范围 －10℃～＋75℃ 1.3 保存温度范围 －20℃～＋85℃ 1.4 测试条件 常温 (温度 5~35℃) 常湿 (湿度 45~85%) 常压 (气压 86~106kPa)

2．Mechanical Characteristics	2．机械特性

	Item 项目		Measuring condition 测试条件	Specifications 规格
Rotation operation 回转操作	2.1	Mechanical travel 机械行程	Total rotation angle 全回转角度	60°min
		Electricity travel 电气行程	In effect angle 印刷电阻有效角度	45°±3°
		Middle tapping angle 中心抽头角度	Middle tapping angle in resistance 印刷电阻中间银层度数	10° ±2°
	2.2	Operating force 动作力	Measure the slip-off torque of the detent. 测试脱离中心点时的力矩	150±80gf.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℃) 70℃时额定功率 W	0.0125W
		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
		Insulating voltage (Max direct current or alternating current) 绝缘电压（直流或交流峰值）	300V

Item 项目		Measuring condition 测试条件	Specifications 规格
3.2	Voltaga Divider Error 分压误差值	Voltage divider error is defined the ratio of the voltage terminals 1-2 to terminals 1-3 after the drive arm rested. 5V D.C. shall be applied to the terminals between 1and 3 and then voltage divider error shall be measured with the drive arm operation on the line X-X and Y-Y. (Terminal 1-2/Terminal 1-3×100%) 分压误差值是摇杆自由复归后端子 1-2 与端子 1-3 电压比例。将 5V D.C 电压加在端子 1-3 之间，分压误差值在摇杆动作于 X-X 和 Y-Y 方向到底复归后测试。（端子 1-2/端子 1-3×100%）	42%～58%
3.3	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	≤500Ω
3.4	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	5KΩ ±10%
3.5	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≤total resistance×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})÷2≤全阻值×30%}	
3.6	Insulation resistance 绝缘电阻	Measure to Apply AC250V. (Between terminal for reinforcing and the other terminals) AC250V 测试	100MΩ min. 不小于 100MΩ
3.7	Withstand voltage 耐电压	Apply A.C250V for 1min. (Between terminal for reinforcing and the other terminals) A.C250V1 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±2℃ Time‥‥‥‥‥‥‥96 hours After that ，leave in ordinary temp and humidity for an hour. Then measure. 温度‥‥‥‥85±2℃ 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 2.3 3.4 3.5 The same as the initial spec. 项目：2.2 3.2 3.3 2.3 3.4 3.5 同初始规格

4.2	Moisture resistance 耐湿特性	Temperature‥‥‥‥ 40±2℃ Humidity ‥‥‥‥ 90~95%Rh Time ‥‥‥‥ 96±4 hours After that ，leave in ordinary temp and humidity for an hour. Then measure. 温度‥‥‥‥ 40±2℃ 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
4.3	Low temperatu-re resistance 耐寒特性	Temperature ‥‥‥ −20±3℃ Time ‥‥‥‥ 96±2 hours After that ，leave in ordinary temp and humidity for an hour. Then measure. 温度 ‥‥‥ −20±3℃ 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	Resistance to soldering heat 焊錫耐熱性	Solder dip:浸焊 Preheating condition: Surface temperature of the substrate shall be settled within 100℃ in one min. 預熱: 基板表面溫度 100℃以下，1 分鐘內。 Solder temperature 260±5℃for 5 sec. 焊錫溫度 260±5℃，5 秒。 Manual Soldering: Less than 350℃ and quicker than 3 seconds. 手銲: 350℃以下，3 秒以內	Variation of total resistance shall be within ± 5%, and terminals shall not work loose to injure electric contact, after test. 全阻值變化±5%以內,測試後無端子鬆動,不會損壞電氣接點。
4.5	H_2S resistance 耐硫化特性	Density‥‥‥‥‥‥3±1ppm. Temperature‥‥‥40±2℃ Humidity ‥‥‥‥‥80%Rh Time‥‥‥‥‥‥‥‥24±2 hours After that ，leave in ordinary temp and humidity for an hour. Then measure. 浓度 ‥‥‥‥‥‥3±1ppm. 温度 ‥‥‥40±2℃ 湿度 ‥‥‥‥80%Rh 时间‥‥‥‥‥‥‥‥24±2 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 2.3 3.4 3.5 The same as the initial spec. 项目：2.2 3.2 3.3 2.3 3.4 3.5 同初始规格

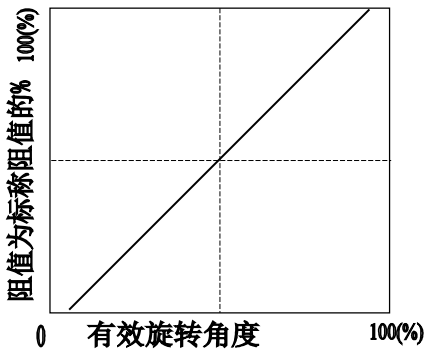
Item 项目		Measuring condition 测试条件	Specifications 规格
4.6	Vibration 耐振动特性	Amplitude‥‥‥‥‥1.5mm Frequency ‥‥‥‥10~55~10Hz for 1 min Vibration directions X.Y.Z (3 directions) Time‥‥‥‥‥‥‥‥X.Y.Z. each 2 hours 振幅‥‥‥‥‥‥1.5mm 频率 ‥‥‥‥ 10~55~10Hz 1 分钟 颤动方向 X.Y.Z (3 个方位) 时间‥‥‥‥‥‥‥‥X.Y.Z. 各 2 小时	The same as above. 同上
4.7	Impact resistance 耐冲击特性	Accelation‥‥‥‥735m/s(75G) Time‥‥‥‥‥‥‥6ms Directions‥‥‥‥6 directions×3 times 加速度‥‥‥‥735m/s(75G) 作用时间‥‥‥‥‥‥‥6ms 方向‥‥‥‥6 个方位×3 次	There shall not be visual transformation and noticeable wobble of terminal etc.. 无视觉变化和明显的端部摆振。
4.8	Operation life 操作寿命	Operation times‥‥‥100,000T Reciprocate 100,000 times at a speed of 30～40 times reciprocation per minute with no-load in the ordinary temp and humidity. 操作次数‥‥‥100,000T 在常温、常湿, 无负载的情况下，以每分钟往复 30~40 次的速度进行 100,000 次以上	Item 2.2 2.3 3.2 3.3 3.4 The same as the initial spec. Item 3.5 △R≤25%R 项目 2.2 2.3 3.2 3.3 3.4: 同初始规格 项目 3.5 △R≤25%R

附图：

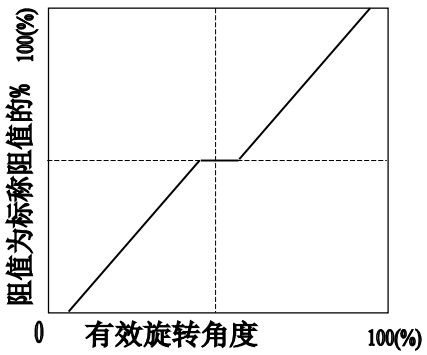
（线性规律）

□ 一

■ 二



（一）



（二）

设计：曾忠	审核：梁成腾	批准：唐荣
印 章	日期：2023-2-9	