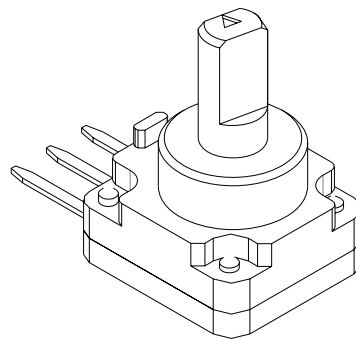


P.C.B MOUNTING HOLE DETAIL

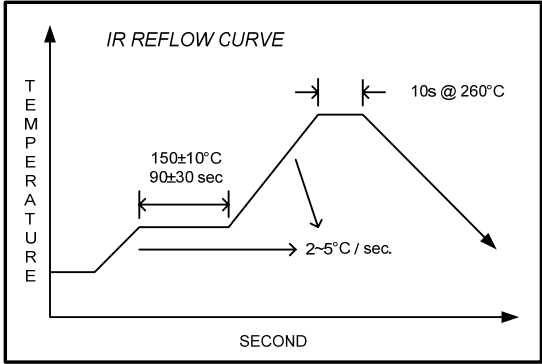


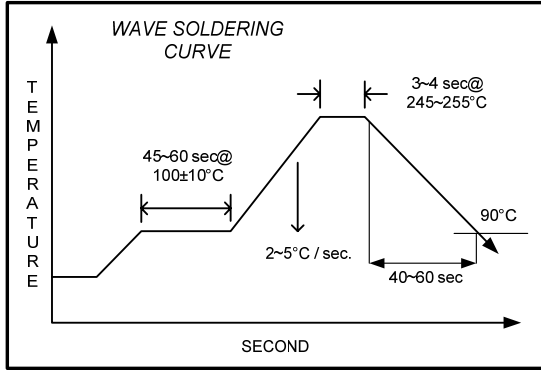
PIN NO	Signal	Description	Description
1	Vdd	Power Supply	5.0V DC
2	Vout	Voltage Signal Output	0~Vdd
3	Vss	Ground	Groudn

			江苏国科新昌科技有限公司 JIANG SU GUO KE XIN CHANG ELECTRONIC CO., LTD	
			UNIT	mm
NO.	DESCRIPTION	DATE	TOL UNLESS OTHERWISE STATED	
DRAWN BY Liang			TYPE NO.	HC101B
			NAME	HC101B-20-10RA-XXX
			DWG NO.	DWGHC101B003A

1. General Characteristics		1. 一般特性	
1.1 Shape and dimensions In accordance with the outline and dimension drawing.		1.1 形状尺寸 见附图	
1.2 Operating temperature range -30°C ~ +80°C		1.2 使用温度范围 -30°C ~ +80°C	
1.3 Conserving temperature range -10°C ~ +60°C		1.3 保存温度范围 -30°C ~ +80°C	
1.4 Test conditions Ordinary temperature (5~35°C) Ordinary humidity (45~85%Rh) Ordinary atmospheric pressure (86~106kPa)		1.4 测试条件 常温 (温度 5~35°C) 常湿 (湿度 45~85%Rh) 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	2.1 Total rotation angle 全回转角度	The rotation Angle of machine 机械回转角度	360°
回转操作	2.2 Operating force 动作力	Measure the rotation torque 测试旋转力矩	5~30gf.cm
	2.3 Lever Strength 止档力矩	Measure when rotate to the tail end by CW or CCW. 顺时针（或逆时针）旋到底测试	
	2.4 Electrical angle 有效角度	The rotation Angle of electricity 电气角度	360°
3. Electrical characteristics		3. 电气特性	
	Item 项目	Measuring condition 测试条件	Specifications 规格
3.1	Power rating 额定功率 W		0.05W
3.2	Operating Voltage 工作电压		<input type="checkbox"/> 3.3VDC <input checked="" type="checkbox"/> 5.0VDC
3.3	Output Voltage 输出电压		<input type="checkbox"/> 0-3.3 VDC <input checked="" type="checkbox"/> 0-5.0 VDC
3.4	工作電流 Operating Current		Max: <7mA Typical: 2.5mA 5VDC

Item 项目		Measuring condition 测试条件	Specifications 规格
3.5	Contact noise 接触杂音		None 无
3.6	Independent linearity 独立线性	<p>Voltage Ratio</p> <p>100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0%</p> <p>50 100 150 200 250 300 350</p> <p>360</p> <p>Shaft Rotation Angle</p>	
3.7	Output bandwidth 输出频宽		20 KHz
3.8	Output response time 输出响应时间		3 uS
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 $80 \pm 2^{\circ}\text{C}$ Time 96 hours After that , leave in ordinary temp and humidity for an hour. Then measure. 温度 $80 \pm 2^{\circ}\text{C}$ 时间 96 小时 然后放置在常温和湿度下一个小时再测试。	Output variation <2%

Item 项目	Measuring condition 测试条件	Specifications 规格
4.2 Moisture resistance 耐湿特性	Temperature $60 \pm 2^{\circ}\text{C}$ Humidity 90~95%Rh Time 96 hours After that , leave in ordinary temp and humidity for an hour. Then measure. 温度 $60 \pm 2^{\circ}\text{C}$ 湿度 90~95%Rh 时间 96 小时 然后放置在常温和湿度下一个小时再测试。	Output variation <2%
4.3 Low temperature resistance 耐寒特性	Temperature $-30 \pm 2^{\circ}\text{C}$ Time 96 hours After that , leave in ordinary temp and humidity for an hour. Then measure. 温度 $-30 \pm 2^{\circ}\text{C}$ 时间 96 小时 然后放置在常温和湿度下一个小时再测试。	Output variation <2%
4.4 Life 寿命	Operation at a speed of 10 ~ 15 times reciprocation per minute with no-load in the ordinary temp and humidity. 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	10-Million, Electrical 电气寿命 1 千万次以上
4.5 Dipping Test 浸锡试验	10s 260°C	Output Variation < 1%
4.6 Soldering Condition 焊锡条件		
4.6.1 REFLOW 回流焊	 <p style="text-align: center;">IR REFLOW CURVE</p> <p style="text-align: center;">TEMPERATURE</p> <p style="text-align: center;">SECOND</p> <p style="text-align: center;">150±10°C 90±30 sec</p> <p style="text-align: center;">2-5°C / sec.</p> <p style="text-align: center;">10s @ 260°C</p>	

4.6.2	WAVE 波峰焊	
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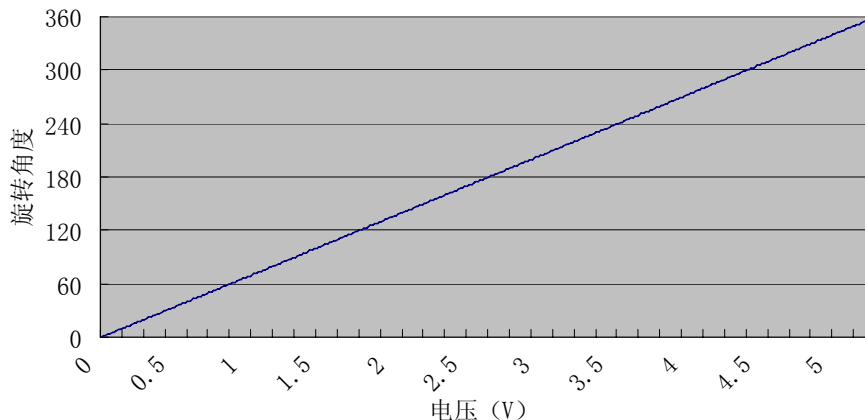
5. Environmental

5. 环境

Item 项目	Measuring condition 测试条件	Specifications 规格
5.1	ESD; HUMAN MIL-STD-883G Method 3015.7	(±)1000V ~ 4000V, Step: (±)500V
5.2	ESD; MACHINE JEDEC EIA/JESD22-A115	(±)100V ~ 300V, Step: (±)50V

6. Output curve

6. 输出曲线

6.1	Output curve 输出曲线	Output signal tracking tester 输出轨迹测试仪 输出线性图 
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设计：陆志峰

审核：施继峰

批准：尹鸿强

印 章

江苏国科新昌科技有限公司
JIANGSU GUOKE XINCHANG TECHNOLOGY CO.,LTD