



承認書

APPROVAL SHEET

承認書編號:

SHEET NO: NDR112TV15022701A

客 戶

CUSTOMER

吟 飞

品 名

PARTNAME

R112TV-30B1-15F-0B2.5K-001

規 格

DESCRIPTION

客 戶 料 號

CUSTOMER'S PART NO. _____

日 期

DATE

2015-2-27

客戶承認

Customer Approved by

供應商經辦

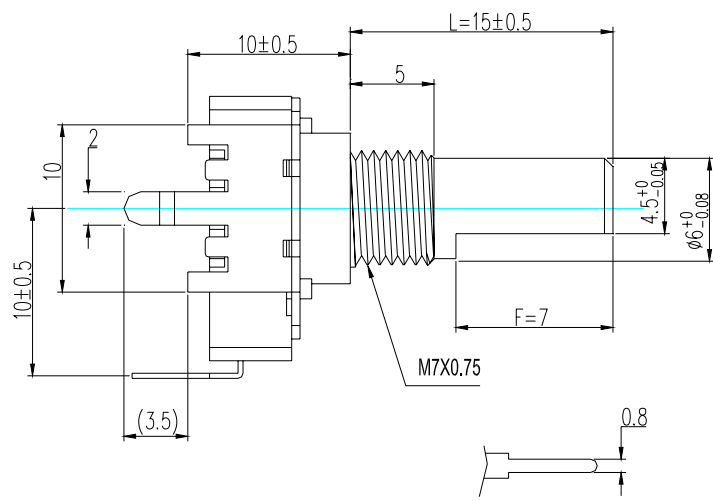
Supplier Handle by

* 承認後請回簽一份 Please sign back after approval. THANKS!

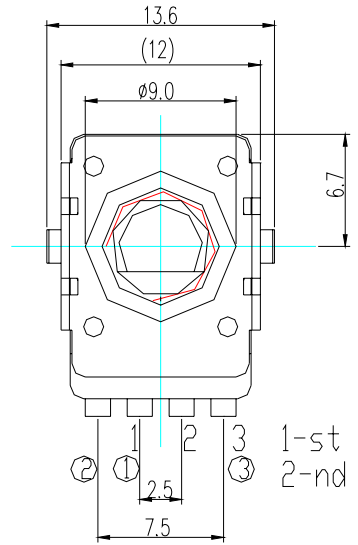
香港公司 HONG KONG OFFICE:
新昌電子(香港)有限公司
XINCHANG ELECTRONIC (HK) LIMITED
ADD: RMA3, 4/F, SHATIN INDUSTRIAL
BUILDING, 22-28, WO SHUI
STREET, FO TAN, SHATIN, NT
香港沙田火炭禾穗街 22-28
號, 沙田工業大廈 4 字樓 A3
室
TEL: (00852) 26909137
FAX: (00852) 26903590
E-mail:
kenny@xinchangelectronic.com

常州工廠 CHANGZHOU FACTORY:
江蘇國科新昌科技有限公司
JIANGSU GUOKE XINCHANG
TECHNOLOGY CO., LTD
ADD: LIJIA TOWN,
CHANGZHOU, JIANGSU, CHINA
江蘇省常州市武進區禮嘉
鎮工業區陳和路
TEL: 0519-86233862
FAX: 0519-86233861
E-mail:
czxinchang@126.com
http://: www.gk-xc.com

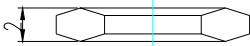
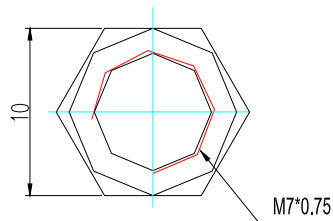
東莞工廠 DONGGUAN FACTORY:
東莞常新昌電子有限公司
DONGGUAN CHANGXINCHANG
ELECTRONIC CO., LTD
ADD: HUANGCHAOLANG INDUSTRY
AREA, DALANG, DONGGUAN,
CHINA
東莞大朗鎮黃草朗禾碌村工業
園區
TEL: 0769-83203710
FAX: 0769-83203720
E-mail: dg@xinchangdg.com



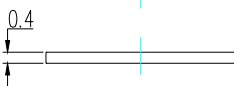
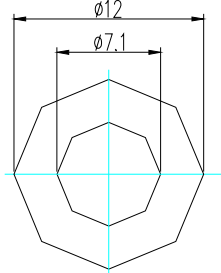
TERMINAL DETAIL



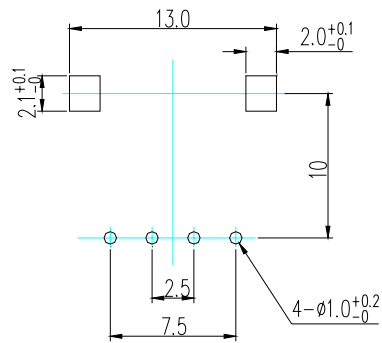
● 360° ROTATION
DUAL UNIT



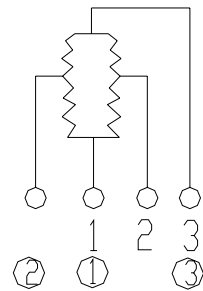
NUT 1PCS



WASHER 1 PCS



P.C.B MOUNTING HOLE DETAIL

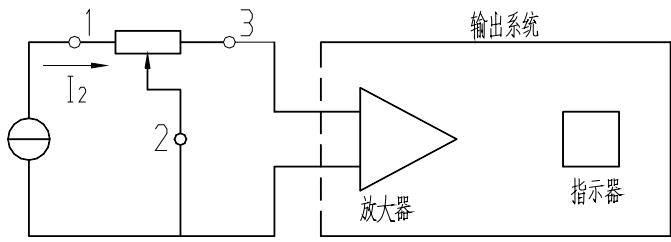


CIRCUIT

			江苏国科新昌科技有限公司 JIANG SU GUO KE XIN CHANG ELECTRONIC CO., LTD	
			Projected view	机种 R112TV
			TOL UNLESS OTHERWISE STATED	
NO.	DESCRIPTION	DATE	Less than 10 ±0.3	品名 R112TV-30B1-15F-XXX
DRAWN BY	CHECKED BY	APPROVED BY	above 10~30 ±0.5	图号 R112TV001A
CHEN	LU	WAN	above 30~100 ±1	
			above ±5°	

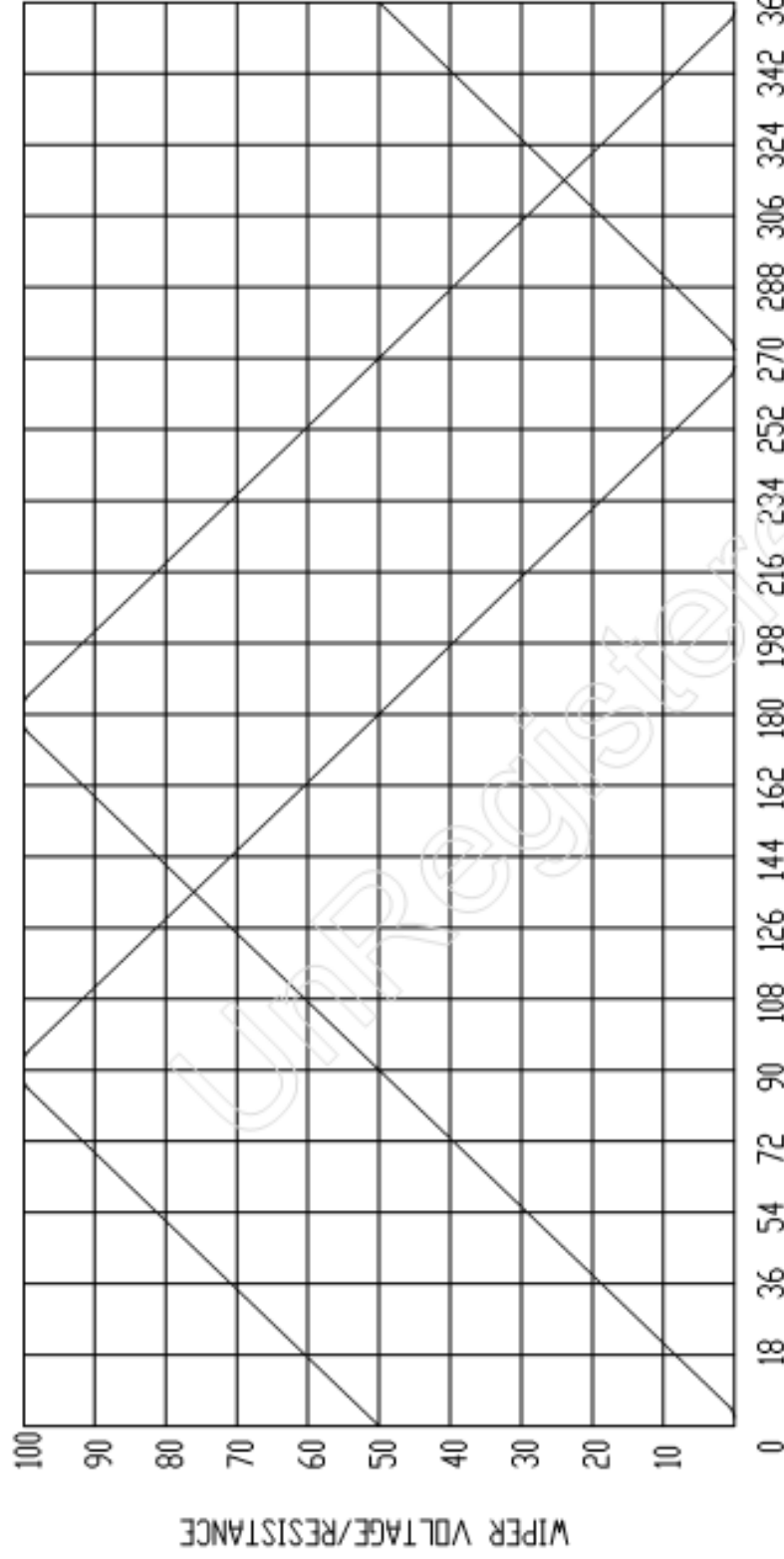
江苏国科新昌科技有限公司
JIANGSU GUOKE XINCHANG TECHNOLOGY CO., LTD

1. General Characteristics 1.1 Shape and dimensions In accordance with the outline and dimension drawing. 1.2 Operating temperature range -10°C ~ +75°C 1.3 Conserving temperature range -20°C ~ +85°C 1.4 Test conditions Ordinary temperature (5~35°C) Ordinary humidity (45~85%Rh) 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°C ~ +75°C 1.3 保存温度范围 -20°C ~ +85°C 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	
2.1	Item 项目	Specifications 规格	
2.2	Total rotation angle 全回转角度	360°	
2.3	Operating force 动作力	20±10 gf.cm	
2.4	Rotational speed 回转速度	Rotational speed 60°/ 1sec	
2.5	Push and pull strength of shaft 轴压拉强度	Push and pull static load of 6kg shall be applied to the shaft in the axial direction for 3 seconds ,NO abnormality in electric characteristics and operating feeling. 在轴压及拉的方向加 6KG 静负荷 3 秒钟, 作用后不会影响其电气特性及操作感觉	
2.6	Shaft wobble 轴晃动	A momentary load of 500gf.cm shall be applied at the point 5mm from the tip of the shaft in a direction perpendicular to the axis of shaft ,the wobble 0.7XL/30mm p-p max .(L: shaft length) 轴端前 5mm 位置加 500gf.cm,晃动程度 0.7XL/30mm p-p 以下 (L: 轴长)	
2.7	Resistance to soldering heat 焊锡耐热性	After soldering without excessive looseness of terminals and failure contact 焊锡后, 端子不能有显著的接触不良发生。	
2.8	Bushing nut tightening strength 轴套螺帽固定强度	7kgf.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 alternating current) 最高使用电压（交流峰有效值） V	50V
3.2	Total 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	± 20%
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	NO
3.4	Each other resistance error 各联阻值误差	Measurement shall be made at 1、3 terminal.every resistance. 在每联电阻体的 1、3 端时分别测试	NO
	Item 项目	Measuring condition 测试条件	Specifications 规格
3.5	Slider noise 滑动噪声	<p>The residual resistance with the shaft (lever) placed at the end of terminal 1, shall be measured between the terminals 1 and 2. Next with the shaft (lever) placed at the end of terminal 3, the resistance shall be measured between the terminals 2 and 3. If there are tapped terminals, the shaft (lever) shall be turned (moved) and the resulting minimum resistance between the taped terminal and the terminal 2 shall be measured.</p>  <p>按照如图的测试电路测试，以每分钟 2~5 圈的速度转动转轴。</p>	NO
3.7	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 100MΩ
3.8	Withstand voltage 耐电压	Apply A.C150V for 1min(Between terminal for reinforcing and the other terminals) A.C150V1 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 16 hours After that , leave in ordinary temp and humidity for an hour. Then measure. 温度 $85 \pm 2^{\circ}\text{C}$ 时间 16 小时 然后放置在常温和湿度下一个小时再测试。	Item 2.2 2.3 3.2 The same as the initial spec. 项目: 2.2 2.3 3.2 同初始规格	
Item 项目	Measuring condition 测试条件	Specifications 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	
4.3 Low temperatur e resistance 耐寒特性	Temperature $-20 \pm 3^{\circ}\text{C}$ Time 16 ± 2 hours After that , leave in ordinary temp and humidity for an hour. Then measure. 温度 $-20 \pm 3^{\circ}\text{C}$ 时间 16 ± 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 Rotation life 旋转寿命	Operation times 15,000T Reciprocate 15,000 times at a speed of 10~15 times reciprocation per minute with no-load in the ordinary temp and humidity. 操作次数 15,000T 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 15,000 次		

POT. TAPER



ROTATION TRAVEL (DEGREE)

				江苏国科新昌科技有限公司 JIANG SU GUO KE XIN CHANG ELECTRONIC CO., LTD	
		Projected view		机种 RL22TV	
		无基准面尺寸 No. basic surface sizes		品名	
		公差 10 ^{-0.3} ±0.3 公差 10 ^{-0.5} ±0.5 公差 30 ^{-1.0} ±1		图号	
		NO. DESCRIPTION DATE			
DRAWN BY		CHECKED BY		APPROVED BY	
CERN		LJ		MAN	