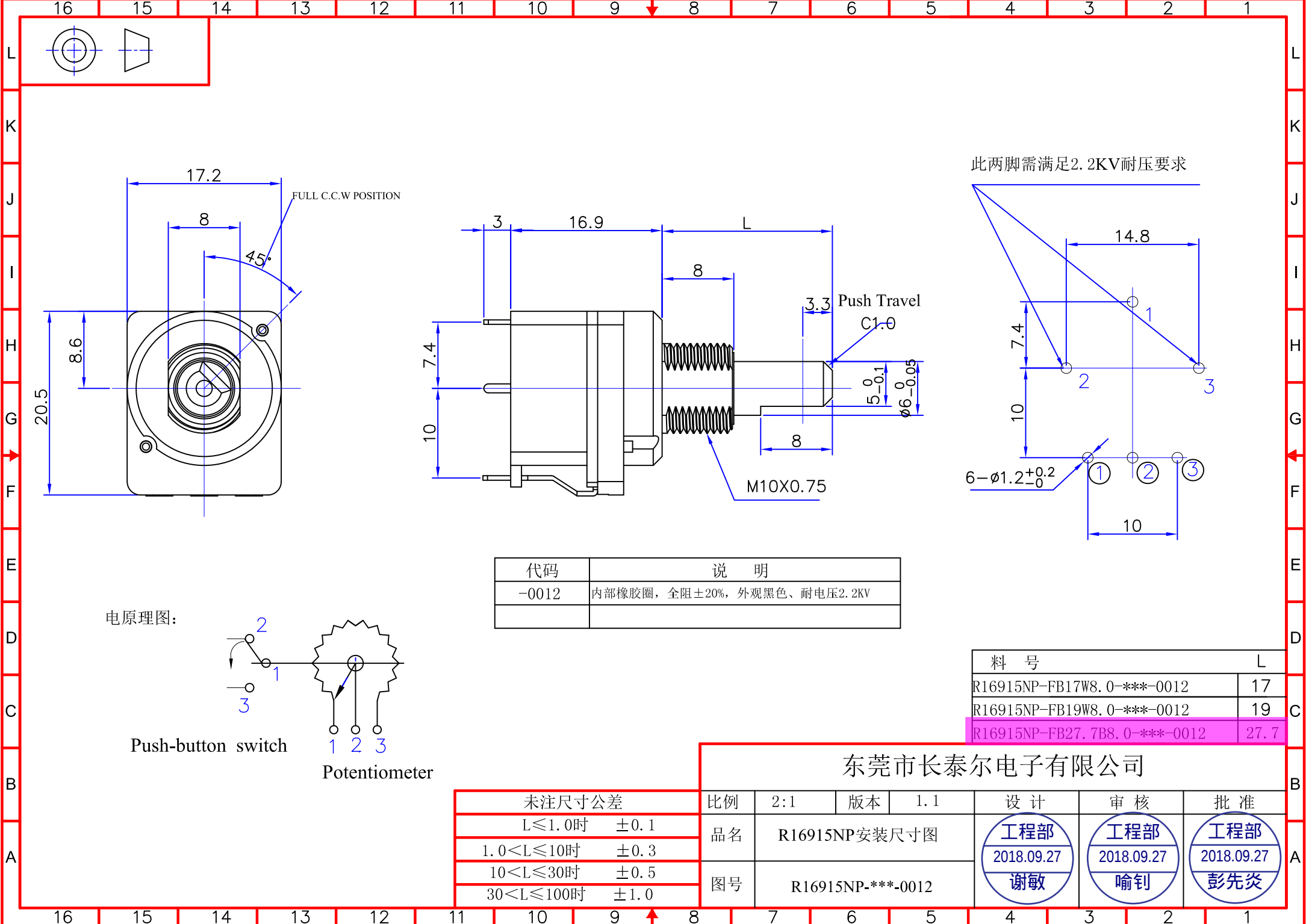


电 位 器 规 格 书	
POTENTIOMETER SPECIFICATIONS	
1 一般事项 General information	
1-1 适用型号 Applicable models	R169 系列 R169 Serial
1-2 使用环境温度 Usage environment temperature	- 20℃ ~ + 70℃
1-3 保存环境温度 Storage environment temperature	- 40℃ ~ + 70℃
1-4 测试条件 Test condition	温度: 5~35℃, 湿度: 45~85%HR Temperature:5~35℃, Moisture:45~85%HR
1-5 环保要求 Environmental requisition	本产品符合 RoHS 指令 This product is compliant with RoHS Directive
1-6 耐焊接热 Soldering heat-resistance	1、手工焊接温度最高 350℃ ± 5℃, 3 秒; 2、自动焊接温度最高 260℃ ± 5℃, 3 秒; 基板表面预热温度最高 100℃, 1 分钟以内; 3、以上过程均保证在 1 到 2 次; 4、不适用回流焊。 1. Soldering iron Max ,350℃ ± 5℃ at 3 sec. 2. Auto soldering 260℃ ± 5℃ max. at 3 sec. Preheating temperature of board surface: 100℃ max. at within 1 minutes. 3. To guarantee the above process at 1 or 2 times. 4. No apply the reflow soldering.
1-7 原产地 Country of origin	中国 China
2 构造 Construction	
2-1 外观 Appearance	各部件应完整, 无锈蚀、裂痕、电镀不良 Every part should finished, be not exist rust flaw crack and bad plating
2-2 寸法 Measurements	依照图面规定 Under conditions prescribed by design drawing.
3 机械性能 Mechanical characteristics	
3-1 全回转角度 Total rotational angle	旋转开关: 300° ± 5° 按压开关: 270° ± 5° Rotate switch: 300° ± 5° Push switch: 270° ± 5°
3-2 回转力矩 Rotational torque	10~200gf.cm (旋转速度: 60° /1 秒) 10~200gf.cm (Rotational velocity : 60° /1 Sec.)
3-3 回转止动强度 Rotational stopper strength	R16911NP ≥ 3. 5Kgf.cm R16911NS ≥ 5Kgf.cm
3-4 轴压引强度 Pull-Push Strength of Shaft	≥ 8Kgf
3-5 螺母锁紧强度 Nut tightening strength	≥ 5Kgf.cm
3-6 轴摇晃度 Shaft wobble	在单个轴芯顶端施加 250gf, 轴径向偏移量小于: 0.7*轴长 L 尺寸/30mm On the tip of the single shaft exert 250gf , Shaft radial deviant be smaller than: 0.7*shaft long L size/20mm

4 电气性能 Electrical characteristics				
4-1 全阻抗值 Total resistance	☒ 500 K Ω $\pm 20\%$ ☐ K Ω $\pm 10\%$ ☐ K Ω + %/- %			
4-2 阻抗变化特性 Resistance taper	☐ A ☒ B ☐ C ☐ _____			
4-3 残留阻抗（端子：1-2, 2-3） End resistance（Terminal :1-2, 2-3）	$R \leq 10K \Omega$: $\leq 10 \Omega$; $10K \Omega < R \leq 250K \Omega$: $\leq 20 \Omega$; $R > 250K \Omega$: $\leq 0.1\%R$			
4-4 定格电力 Ratings power	B 线性：0.2W，其它线性：0.05W B Taper : 0.2W, Other taper : 0.05W			
4-5 最高使用电压 Maximum operating voltage	250V AC			
4-6 滑动杂音 Slider noise	<100mV			
4-7 绝缘抵抗 Insulation resistance	500V DC, >100M Ω			
4-8 耐电压 Voltage proof	500V AC 1 分钟以上 1 Minute at 500V AC			
4-9 回转寿命 Rotational life	15,000 cycles 注：无负荷状态以每小时 600 周旋转，寿命后允许阻值最大变化 $\pm 15\%$ 。 15,000 cycles under no load circumstances by 600 r/h of rotation, afterlife cycle permissible resistance change $\pm 15\%$ max.			
5 开关性能 Switch characteristics				
☒ 适用 ☐ 不适用 Apply No apply				
5-1 开关型式 Switch type	☐ 旋转式 ☒ 按压复位式 Rotate type Push-Push type			
5-2 开关回路 Switch circuit	旋转式：单刀单掷 按压复位式：单刀双掷 Rotate type : S. P. S. T Push-Push type: S. P. D. T			
5-3 开关定格电力 Switch ratings power	250V AC 10A			
5-4 开关接触电阻 Switch contact resistance	$\leq 100 \text{ m} \Omega$, 寿命后: $\leq 500 \text{ m} \Omega$ $\leq 100 \text{ m} \Omega$, afterlife cycle1: $\leq 500 \text{ m} \Omega$			
5-5 开关工作角度或行程 Switch working angle or track	旋转开关: $50^\circ \pm 10^\circ$ 按压复位开关行程: $3.3 \pm 0.3 \text{ mm}$ Rotate switch: $50^\circ \pm 10^\circ$. Push-Push switch track: $3.3 \pm 0.3 \text{ mm}$			
5-6 开关工作力矩 Switch working torque	旋转开关: 最大 800gf.cm 按压开关: $1.5 \pm 0.5 \text{ Kg}$ Rotate switch: 800gf.cm max. Push switch: $1.5 \pm 0.5 \text{ Kg}$			
5-7 开关寿命 Switch life	10,000 cycles			
东莞市长泰尔电子有限公司 DONG GUAN CHANG TAI ER ELECTRONIC CO., LTD.		制 作 Designed By	审 核 Checked By	核 准 Approved By
				

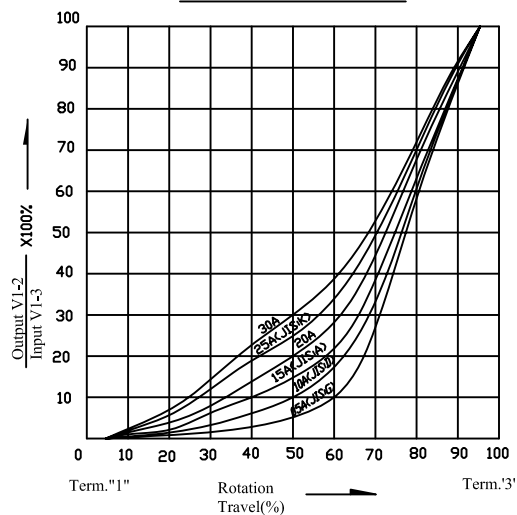


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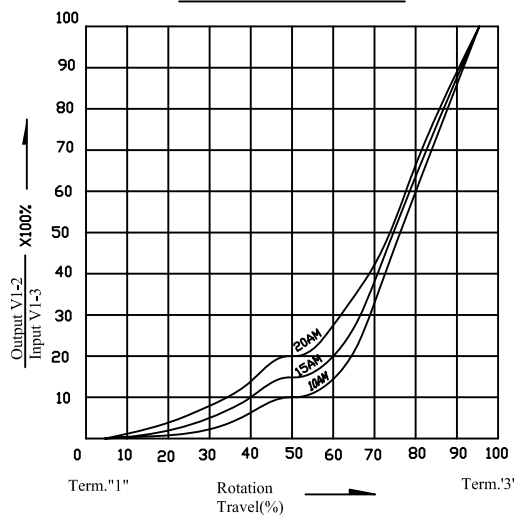
DONG GUAN CHANG TAIER ELECTRONIC CO., LTD

阻抗变化特性 Resistance tapers

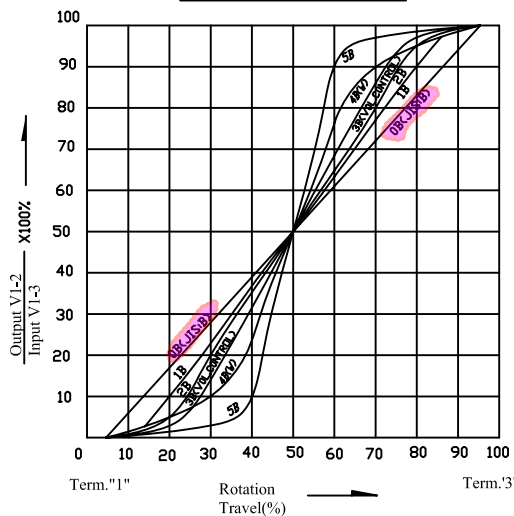
TAPERS (A) SERIES



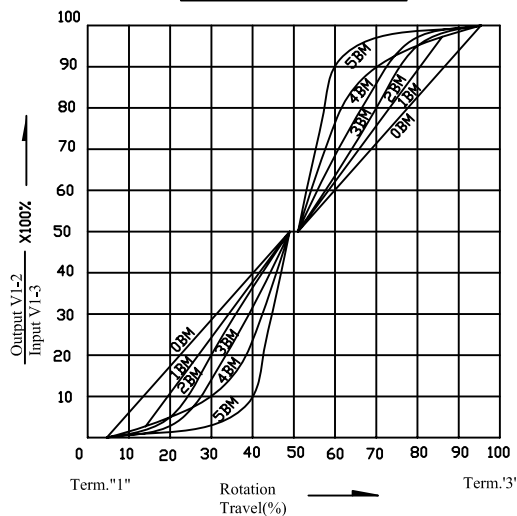
TAPERS (A) WITH 50% TAP



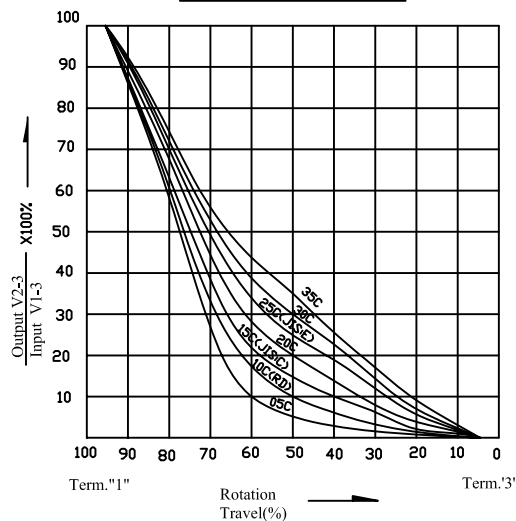
TAPERS (B) SERIES



TAPERS (B) WITH 50% TAP



TAPERS (C) SERIES



TAPERS (M) & (N)

