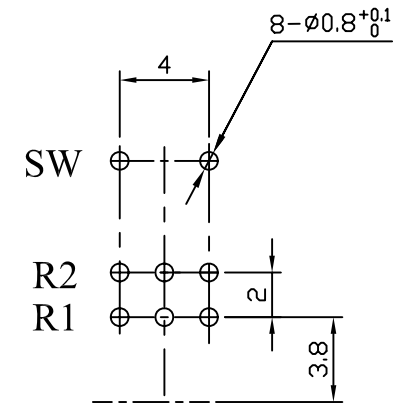
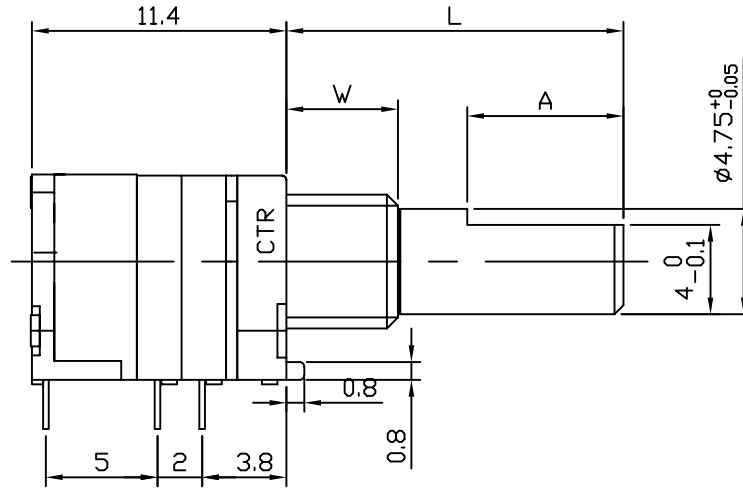
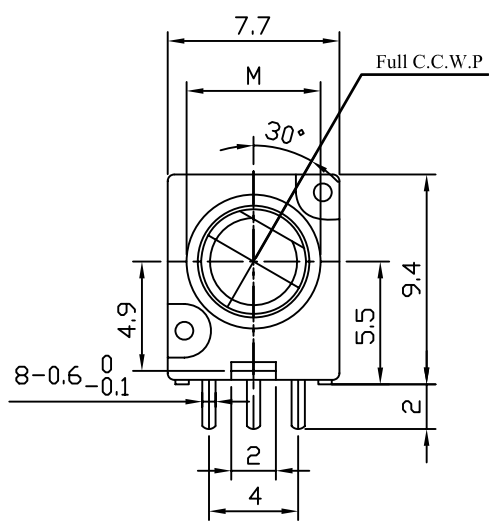


电位器规格书

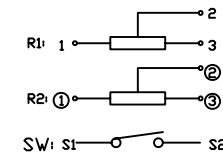
POTENTIOMETER SPECIFICATIONS

| | |
|--|---|
| 1 一般事项 General information | |
| 1-1 适用型号 Applicable models | R087 系列 (长寿命) R087 series (Length life cycle) |
| 1-2 使用环境温度 Usage environment temperature | - 20°C ~ + 70°C |
| 1-3 保存环境温度 Storage environment temperature | - 40°C ~ + 70°C |
| 1-4 测试条件 Test condition | 温度: 5~35°C, 湿度: 45~85%HR Temperature: 5~35°C, 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 焊接条件 Conditions of soldering | 1、手工焊接温度最高 350°C ± 5°C, 3 秒; Soldering iron Max ,350°C ± 5°C at 3 sec 2、自动焊接温度最高 265°C, 3 秒; 基板表面预热温度最高 100°C, 2 分内; Auto soldering 265°C max. at 3 Sec. Preheating temperature of board surface: 100°C max. at within 2 minutes. 3、以上过程均保证在 1 到 2 次。 To guarantee the above process at 1 or 2 times. 4、不适用回流焊。 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 | 300° ± 10° |
| 3-2 回转力矩 Rotational torque | 10~150gf.cm (旋转速度: 60° /1 秒) 10~150gf.cm (Rotational velocity : 60° /1 Sec.) |
| 3-3 回转止动强度 Rotational stopper strength | 3.5Kgf.cm Min. |
| 3-4 轴压引强度 Pull-Push Strength | 8Kgf.cm Min. |
| 3-5 螺母锁拉强度 Nut tightening strength | 10Kgf.cm Min. |
| 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: 0.5*轴长 L 尺寸/30mm On the tip of the single shaft exert 250gf, Shaft radial deviant be smaller than: 0.5*shaft long L size/30mm |
| 4 电气性能 Electrical characteristics | |
| 4-1 全阻抗值 Total resistance | <input checked="" type="checkbox"/> 20 KΩ ± 10% <input type="checkbox"/> _____ KΩ ± 20% |

| | | | | |
|--|--|---|------------------|-------------------|
| 4-2 残留阻抗值 (端子: 1-2, 2-3) End resistance (Terminal :1-2, 2-3) | $R \leq 10K \Omega : \leq 10 \Omega ; \quad 10K \Omega < R \leq 250K \Omega : \leq 20 \Omega ; \quad R > 250K \Omega : \leq 0.1\%R$ | | | |
| 4-3 阻抗变化特性 Resistance | <input type="checkbox"/> A <input checked="" type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> _____ | | | |
| 4-4 定格电力 Ratings power | B 线性: 0.05W, 其它线性: 0.025W B Taper : 0.05W, Other taper : 0.025W | | | |
| 4-5 最高使用电压 Maximum operating voltage | B 线性: 10V DC 或 50V AC, 其它线性: 5V DC 或 25V AC B Taper : 10V AC or 50V AC, Other taper : 5V DC or 25V AC | | | |
| 4-6 滑动杂音 Slider noise | 100mV 以下 100mV Max. | | | |
| 4-7 绝缘抵抗 Insulation resistance | 250V DC, 100M Ω 以上 100M Ω Min. at 250V DC | | | |
| 4-8 耐电压 Voltage proof | 300V AC 1 分钟以上 1 Minute at 300V AC | | | |
| 4-9 回转寿命 Rotational life | 无负荷状态以每小时 600 周旋转, 寿命 30,000 周, 寿命后允许阻值最大变化 $\pm 15\%$ 。 30,000 cycles under no load circumstances by 600 r/h of rotation, afterlife cycle permissible resistance change $\pm 15\%$ maximum . | | | |
| 4-10 同步误差 Gang error | <input type="checkbox"/> $\pm 4dB$ (-40dB~0dB) <input type="checkbox"/> $\pm 3dB$ (-40dB~0dB) *只适用于双联 *Apply the Dual-Unit only | | | |
| 5 开关性能 Switch characteristics | | | | |
| <input checked="" type="checkbox"/> 适用 <input type="checkbox"/> 不适用 Apply No apply | | | | |
| 5-1 开关型式 Switch type | <input checked="" type="checkbox"/> 旋转式 Rotary type | <input type="checkbox"/> 按压式 Push type | | |
| 5-2 开关回路 Switch circuit | 单极单投 S. P. S. T | 单极单投 S. P. S. T | | |
| 5-3 开关定格电力 Switch ratings power | 12V DC 1A | | | |
| 5-4 开关接触电阻 Switch contact resistance | $\leq 100 m \Omega$, 寿命后 $\leq 500 m \Omega$ $\leq 100 m \Omega$, $\leq 500 m \Omega$ of afterlife cycle. | | | |
| 5-5 开关工作角度 Switch working angle | $50^\circ \pm 10^\circ$ | | | |
| 5-6 开关工作力矩 Switch working torque | 120~250gf.cm | | | |
| 5-7 开关寿命 Switch life | 30,000 Cycles | | | |
| 6 防水性能 Waterproof standard characteristics | | | | |
| 6-1 防水标准 Waterproof standard | <input checked="" type="checkbox"/> 不适用 No Apply <input type="checkbox"/> 七级防水 编码器轴芯轴套置于水中 1 米深处, 其它部件密封后暴露在标准大气压中, 30 分钟后电位器内部未进水。 Grade -7 of Waterproof standard Potentiometer's Shaft and Bush in water 1M deep, after other component sealed exposed to the standard atmosphere, after 30 minutes no water into the potentiometer's inner. | | | |
| 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 |
| | | | | |

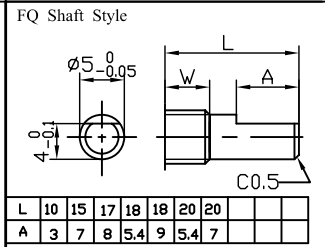
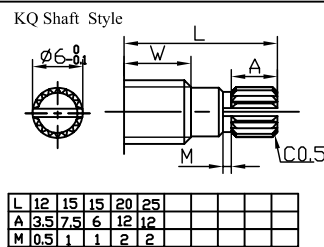
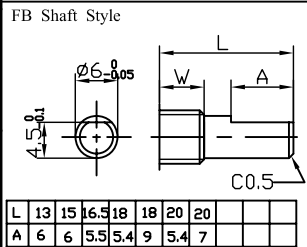
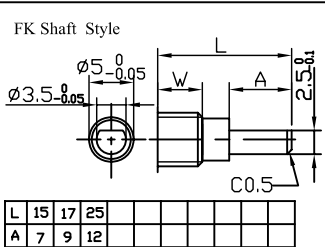
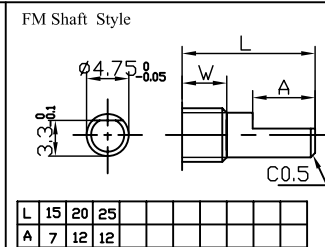
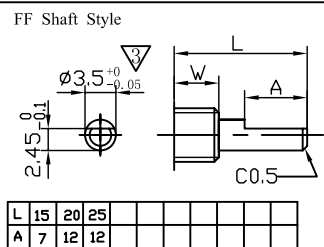
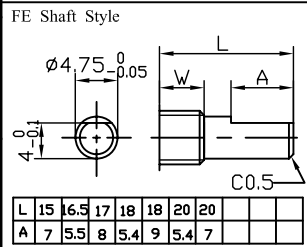


CIRCUIT:GS



| product code | W | M |
|--------------|----|---------|
| R08710GS | 5 | M6X0.75 |
| R08720GS | 7 | |
| R08730GS | 10 | M7X0.75 |
| R087A0GS | 5 | |
| R087B0GS | 7 | |
| R087C0GS | 10 | |

轴的类型:



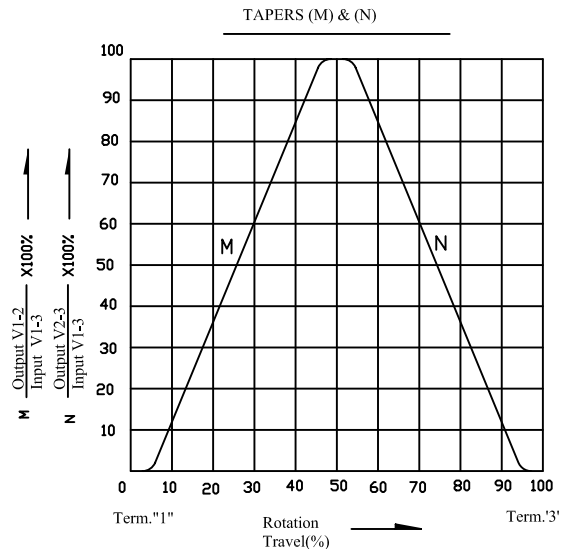
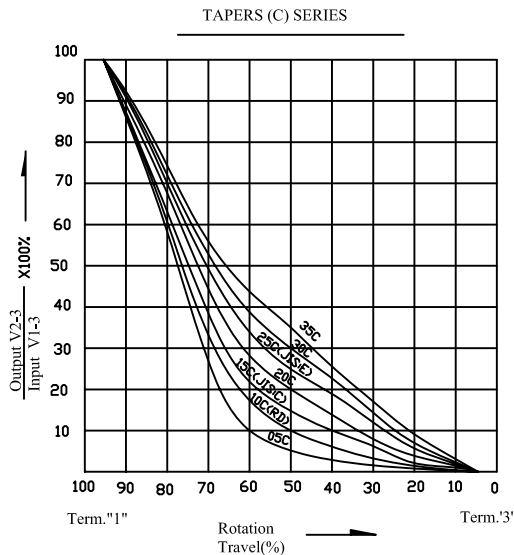
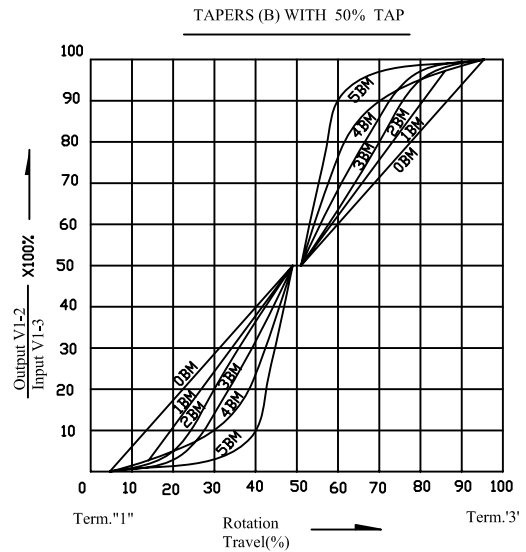
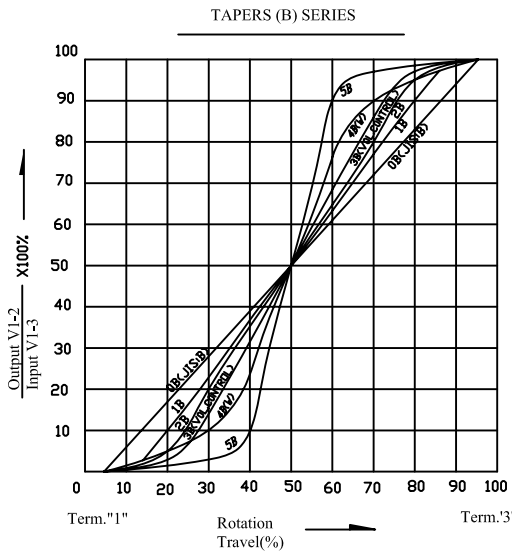
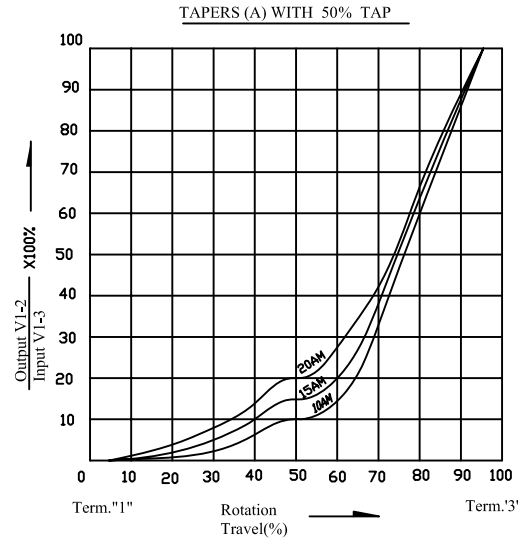
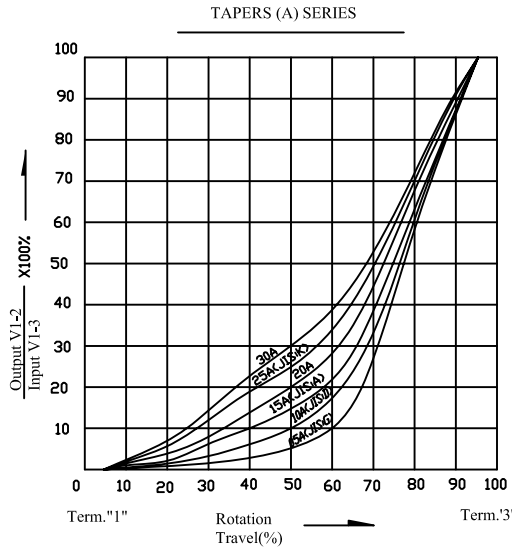
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| 标记 | 变更内容 | 改图 | 日期 |

| 未注尺寸公差 | | 东莞市长泰尔电子有限公司 | | | | | |
|--------------------|-------------------|--------------|-----|-----|-----|------------|--|
| L ≤ 1.0时 ±0.1 | | 视角 | 制图 | 廖金华 | 出图日 | 2015-03-03 | |
| 1.0 < L ≤ 10时 ±0.3 | | 比例 | 3:1 | 单位 | mm | | |
| 10 < L ≤ 30时 ±0.5 | | 版本 | 1.0 | 设计 | 审核 | 批准 | |
| 30 < L ≤ 100时 ±1.0 | | | | | | | |
| 品名 | R087□□GS组立图 | | | | | | |
| 图号 | R087□□GS-□□□-0006 | | | | | | |

东莞市长泰尔电子有限公司

DONG GUAN CHANG TAIER ELECTRONIC CO., LTD

阻抗变化特性 Resistance tapers



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[RK14K1220-F25-C1-B103](#) [14910FBGLFY00103KA](#) [C0342008 5K](#) [J97589](#) [RV170F-10-15R1-B500K-0021](#) [917523A](#) [A43-40](#) [A43-750](#)
[A43S-5](#) [A47-15K](#) [A47-1K](#) [A4750K](#) [SPPG056P103U](#) [SWE-10](#) [GA2G040F103BA](#) [GA2G056S503UA](#) [GA2G056S504UA](#) [GA2L040S502UC](#)
[GA2L040S503UC](#) [POT-3217-02 \(MW22S-3217-500\)](#)