

# 承认书

## APPROVAL SHEET

RoHS

客户名称  
Customer Name

客户料号  
Customer P/N

客户机种  
Customer Model

客户确认回复  
Customer Approval

☐ 合格 PASSED

☐ 不合格 REJECTED

不合格原因  
Reasons for the rejected

确认人  
Confirmed By

日期  
Date of Issue

东莞市长泰尔电子有限公司  
DONG GUAN CHANG TAI ER ELECTRONICS CO., LTD.

产品类别:  
Part Category

电位器

产品料号:  
Part Number

R08719NS-FE15D7.0-A103-0053P

产品原产地:  
Country of Origin

CHINA

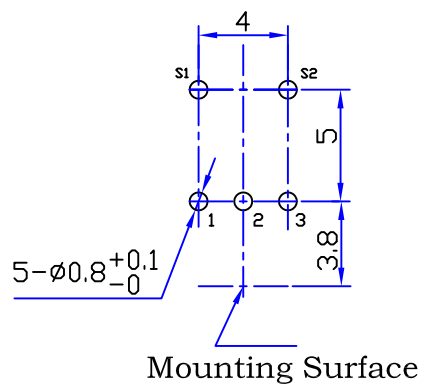
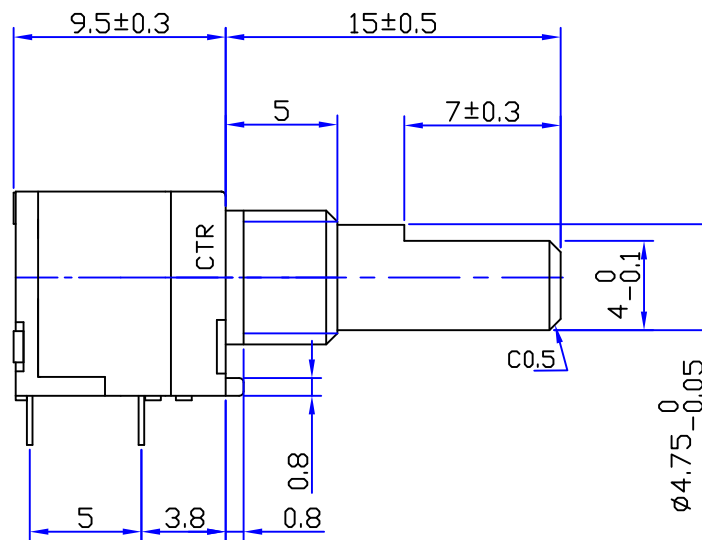
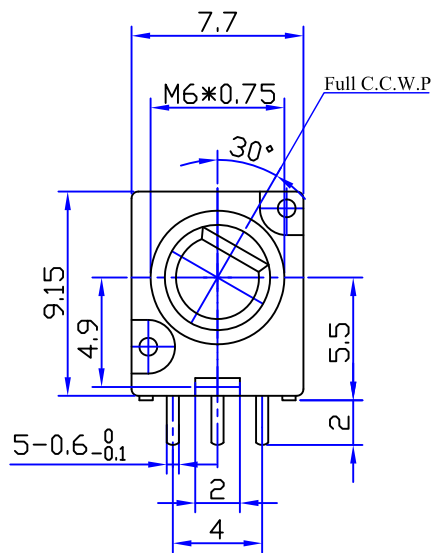
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| <br>长泰尔 | <br>ISO9001:2015/ ISO14001:2015 | <br>014 | 承办<br>Prepared By                                                                   | 品质审核<br>Quality By                                                                   | 工程审核<br>Engineering By                                                                | 工程核准<br>Approved By                                                                   |
|                                                                                           | <br>16949:2016                  |         |  |  |  |  |

RoHS符合

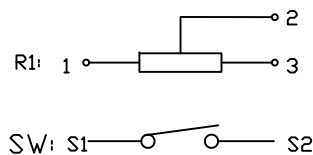
|                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                           |                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 广东东莞工厂<br>DONGGUAN GUANGDONG FACTORY                                                                                                                                                                                                                                            | 浙江乐清工厂<br>YUEQING ZHEJIANG FACTORY                                                                                                                                                                                                                                                                                                                        | 福建泉州办事处<br>QUANZHOU FUJIAN OFFICE             |
| 公司: 东莞市长泰尔电子有限公司<br>Company: Dong Guan Chang Tai Er Electronics Co., Ltd<br>地址: 广东省东莞市厚街镇白濠世纪路18号<br>Add: No.18 Century Road, Baihao Industrial Area, Houjie, Dongguan, Guangdong, P.R.China<br>Tel: 0769-85886788<br>Http://www.changtaier.com<br>E-mail: sales@changtaier.com | 公司: 浙江宇朗电子科技有限公司<br>Company: Zhe Jiang Yu Lang Electronics Technology Co., Ltd<br>地址: 浙江省乐清市乐清湾港区电子信息产业园创新路1号<br>Add: No.1 Chuangxin Road, Yueqing Bay Port Electronic Information Industrial Park, Yueqing, Zhejiang, P.R.China<br>Tel: 0577- 55777503<br>MOB: 13905879026<br>FAX: 0577- 55777503<br>Http://www.ulang.cn<br>E-mail: sales@changtaier.com | 地址:<br>福建省泉州市丰泽区御淮华庭5A1105<br>手机: 13489209470 |

| <div> <div>电位器规格书</div> <div>POTENTIONMETER SPECIFICATIONS</div> </div> |                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>1 一般事项</div> <div>General information</div>                        |                                                                                                                                                                                                                                                                                                                                                     |
| 1-1 适用型号<br>Applicable models                                           | R087 系列（普通寿命）<br>R087 series（General life cycle）                                                                                                                                                                                                                                                                                                    |
| 1-2 使用环境温度<br>Usage environment temperature                             | - 20℃～ + 70℃                                                                                                                                                                                                                                                                                                                                        |
| 1-3 保存环境温度<br>Storage environment temperature                           | - 40℃～ + 70℃                                                                                                                                                                                                                                                                                                                                        |
| 1-4 测试条件<br>T est condition                                             | 温度：5~35℃，湿度：45~85%HR<br>Temperature:5~35℃, Moisture:45~85%HR                                                                                                                                                                                                                                                                                        |
| 1-5 环保要求<br>Environmental requisition                                   | 本产品符合 RoHS 指令<br>This product is compliant with RoHS Directive                                                                                                                                                                                                                                                                                      |
| 1-6 焊接条件<br>Conditions of soldering                                     | 1、手工焊接温度最高 350℃±5℃，3 秒；<br>Soldering iron Max ,350℃±5℃ at 3 sec<br>2、自动焊接温度最高 265℃，3 秒；基板表面预热温度最高 100℃，2 分内；<br>Auto soldering 265℃ max. at 3 Sec. Preheating temperature of board surface: 100℃ max. at within 2 minutes.<br>3、以上过程均保证在 1 到 2 次。<br>To guarantee the above process at 1 or 2 times.<br>4、不适用回流焊。<br>No apply the reflow soldering. |
| 1-7 原产地<br>C ountry of origin                                           | 中国<br>China                                                                                                                                                                                                                                                                                                                                         |
| <div>2 构造</div> <div>Construction</div>                                 |                                                                                                                                                                                                                                                                                                                                                     |
| 2-1 外观<br>Appearance                                                    | 各部件应完整，无锈蚀、裂痕、电镀不良<br>Every part should finished, be not exist rust flaw crack and bad plating                                                                                                                                                                                                                                                      |
| 2-2 寸法<br>Meas urements                                                 | 依照图面规定<br>Under conditions prescribed by design drawing.                                                                                                                                                                                                                                                                                            |
| <div>3 机械性能</div> <div>Mechanical characteristics</div>                 |                                                                                                                                                                                                                                                                                                                                                     |
| 3-1 全回转角度<br>Total rotational angle                                     | 300° ±10°                                                                                                                                                                                                                                                                                                                                           |
| 3-2 回转力矩<br>Rotational torque                                           | 10~150gf.cm（旋转速度：60° /1 秒）<br>10~150gf.cm（Rotational velocity : 60° /1 Sec. ）                                                                                                                                                                                                                                                                       |
| 3-3 回转止动强度<br>Rotational stopper strength                               | 3Kgf.cm Min.                                                                                                                                                                                                                                                                                                                                        |
| 3-4 轴压引强度<br>Pull-Push Strength                                         | 8Kgf.cm Min.                                                                                                                                                                                                                                                                                                                                        |
| 3-5 螺母锁拉强度<br>Nut tightening strength                                   | 8Kgf.cm Min.                                                                                                                                                                                                                                                                                                                                        |
| 3-6 轴摇晃度<br>S haft 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<br>On the tip of the single shaft exert 250gf, Shaft radial deviant be smaller than: 0.5*shaft long L size/30mm                                                                                                                                                                                           |
| <div>4 电气性能</div> <div>Electrical characteristics</div>                 |                                                                                                                                                                                                                                                                                                                                                     |
| 4-1 全阻抗值<br>Total resistance                                            | <u>10</u> KΩ ±20%                                                                                                                                                                                                                                                                                                                                   |

|                                                                                            |                                                                                                                                                                                                                                                                                                                                                                  |                                         |                                         |                                         |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| 4-2 残留阻抗值（端子：1-2，2-3）<br>End resistance(Terminal :1-2, 2-3)                                | R≤10KΩ：≤10Ω；10KΩ<R≤250KΩ：≤20Ω；R>250KΩ：≤0.1%R                                                                                                                                                                                                                                                                                                                     |                                         |                                         |                                         |
| 4-3 阻抗变化特性<br>Resistance                                                                   | <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> _____                                                                                                                                                                                                                                       |                                         |                                         |                                         |
| 4-4 定格电力<br>Ratings power                                                                  | B 线性：0.05W，其它线性：0.025W<br>B Taper：0.05W, Other taper：0.025W                                                                                                                                                                                                                                                                                                      |                                         |                                         |                                         |
| 4-5 最高使用电压<br>Maximum operating voltage                                                    | B 线性：10V DC 或 50V AC，其它线性：5V DC 或 25V AC<br>B Taper：10V AC or 50V AC，Other taper：5V DC or 25V AC                                                                                                                                                                                                                                                                 |                                         |                                         |                                         |
| 4-6 滑动杂音<br>Slider noise                                                                   | 100mV 以下<br>100mV Max.                                                                                                                                                                                                                                                                                                                                           |                                         |                                         |                                         |
| 4-7 绝缘抵抗<br>Insulation resistance                                                          | 250V DC，100MΩ 以上<br>100MΩ Min. at 250V DC                                                                                                                                                                                                                                                                                                                        |                                         |                                         |                                         |
| 4-8 耐电压<br>Voltage proof                                                                   | 300V AC 1 分钟以上<br>1 Minute at 300V AC                                                                                                                                                                                                                                                                                                                            |                                         |                                         |                                         |
| 4-9 回转寿命<br>Rotational life                                                                | 无负荷状态以每小时 600 周旋转，寿命 10,000 周，寿命后允许阻值最大变化±15%。<br>15,000 cycles under no load circumstances by 600 r./h of rotation, afterlife cycle permissible resistance change ±15% maximum.                                                                                                                                                                                 |                                         |                                         |                                         |
| 5 开关性能<br>Switch characteristics                                                           |                                                                                                                                                                                                                                                                                                                                                                  |                                         |                                         |                                         |
| <input checked="" type="checkbox"/> 适用 <input type="checkbox"/> 不适用<br>Apply      No apply |                                                                                                                                                                                                                                                                                                                                                                  |                                         |                                         |                                         |
| 5-1 开关型式<br>Switch type                                                                    | 旋转式<br>Rotary type                                                                                                                                                                                                                                                                                                                                               |                                         |                                         |                                         |
| 5-2 开关回路<br>Switch circuit                                                                 | 单极单投<br>S. P. S. T                                                                                                                                                                                                                                                                                                                                               |                                         |                                         |                                         |
| 5-3 开关定格电力<br>Switch ratings power                                                         | 12V DC 1A                                                                                                                                                                                                                                                                                                                                                        |                                         |                                         |                                         |
| 5-4 开关接触电阻<br>Switch contact resistance                                                    | ≤100 mΩ，寿命后≤500 mΩ<br>≤100 mΩ，≤500 mΩ of afterlife cycle.                                                                                                                                                                                                                                                                                                        |                                         |                                         |                                         |
| 5-5 开关工作角度<br>Switch working angle                                                         | 50° ±10°                                                                                                                                                                                                                                                                                                                                                         |                                         |                                         |                                         |
| 5-6 开关工作力矩<br>Switch working torque                                                        | 120~250gf.cm                                                                                                                                                                                                                                                                                                                                                     |                                         |                                         |                                         |
| 5-7 开关寿命<br>Switch life                                                                    | 10,000 Cycles                                                                                                                                                                                                                                                                                                                                                    |                                         |                                         |                                         |
| 6 防水性能<br>Waterproof standard characteristics                                              |                                                                                                                                                                                                                                                                                                                                                                  |                                         |                                         |                                         |
| 6-1 防水标准<br>Waterproof standard                                                            | <input checked="" type="checkbox"/> 不适用<br>No Apply<br><br><input type="checkbox"/> 七级防水<br>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。<br>Grade -7 of Waterproof standard<br>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<br>DONG GUAN CHANG TAI ER ELECTRONIC CO., LTD.                                |                                                                                                                                                                                                                                                                                                                                                                  | 制 作<br>Designed By                      | 审 核<br>Checked By                       | 核 准<br>Approved By                      |
|                                                                                            |                                                                                                                                                                                                                                                                                                                                                                  | <div>研发工程部<br/>2023.03.21<br/>李 阳</div> | <div>研发工程部<br/>2023.03.21<br/>喻 钊</div> | <div>研发工程部<br/>2023.03.21<br/>彭先炎</div> |



CIRCUIT: NS



|    |      |    |    |
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| 标记 | 变更内容 | 改图 | 日期 |

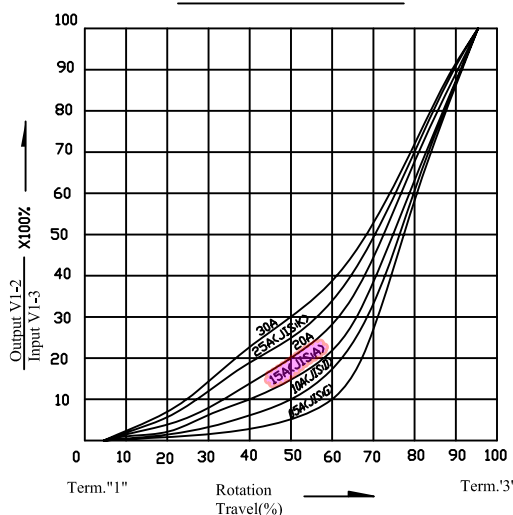
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| 未注尺寸公差         |                   | 东莞市长泰尔电子有限公司 |            |            |            |  |  |
| L≤1.0时 ±0.1    |                   |              |            |            |            |  |  |
| 1.0<L≤10时 ±0.3 | 视角                | 制图           | 喻 钊        | 出图日        | 2023-03-21 |  |  |
| 10<L≤30时 ±0.5  | 比例                | 3:1          | 单位         | mm         |            |  |  |
| 30<L≤100时 ±1.0 | 版本                | 1.0          | 设计         | 审核         | 批准         |  |  |
| 品名             | R08719NS 组立图      |              | 研发工程部      | 研发工程部      | 研发工程部      |  |  |
| 图号             | R08719NS-FE15D7.0 |              | 2023.03.21 | 2023.03.21 | 2023.03.21 |  |  |
|                |                   |              | 李 阳        | 喻 钊        | 彭先炎        |  |  |

# 东莞市长泰尔电子有限公司

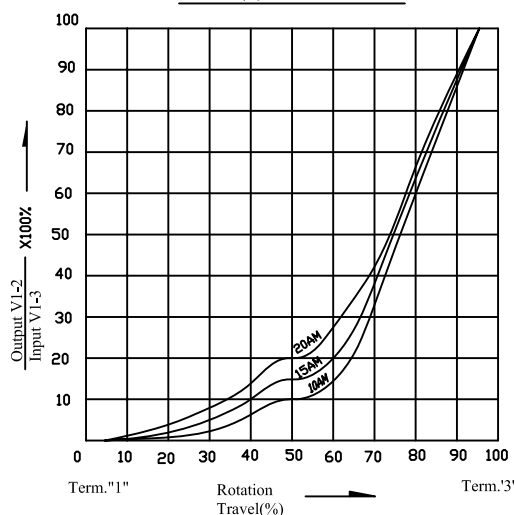
DONG GUAN CHANG TAIER ELECTRONIC CO., LTD

## 阻抗变化特性 Resistance tapers

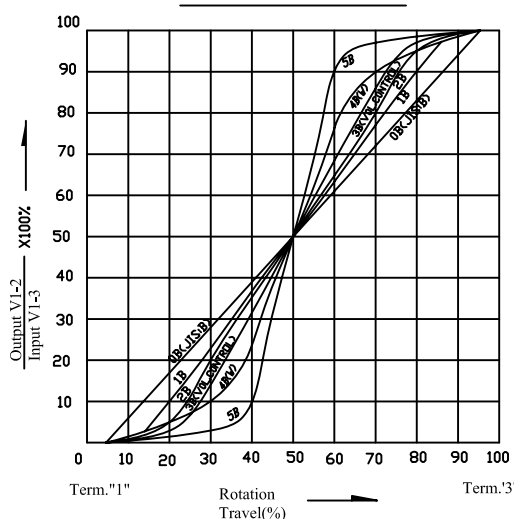
TAPERS (A) SERIES



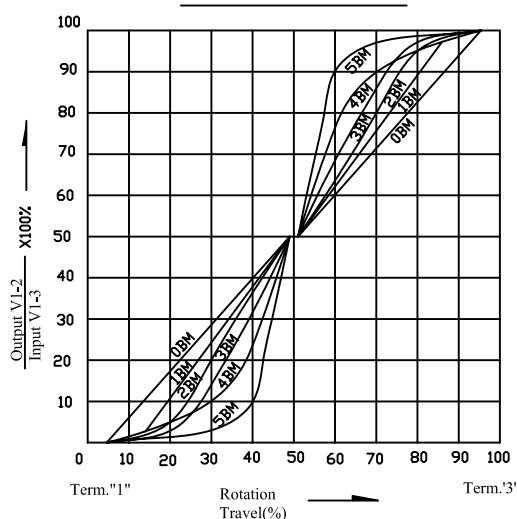
TAPERS (A) WITH 50% TAP



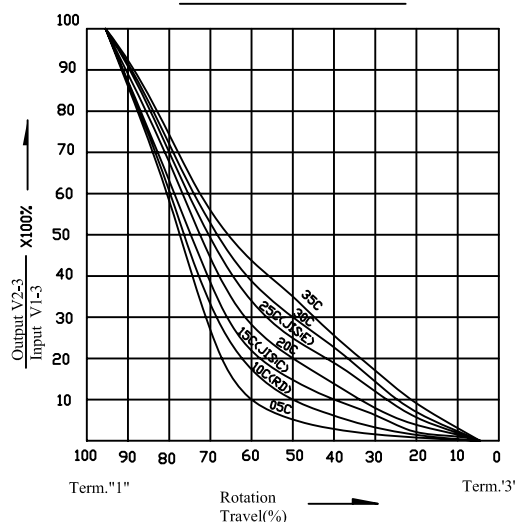
TAPERS (B) SERIES



TAPERS (B) WITH 50% TAP



TAPERS (C) SERIES



TAPERS (M) & (N)

