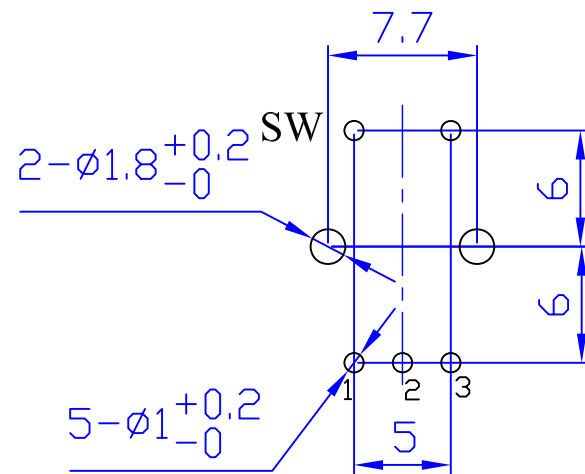
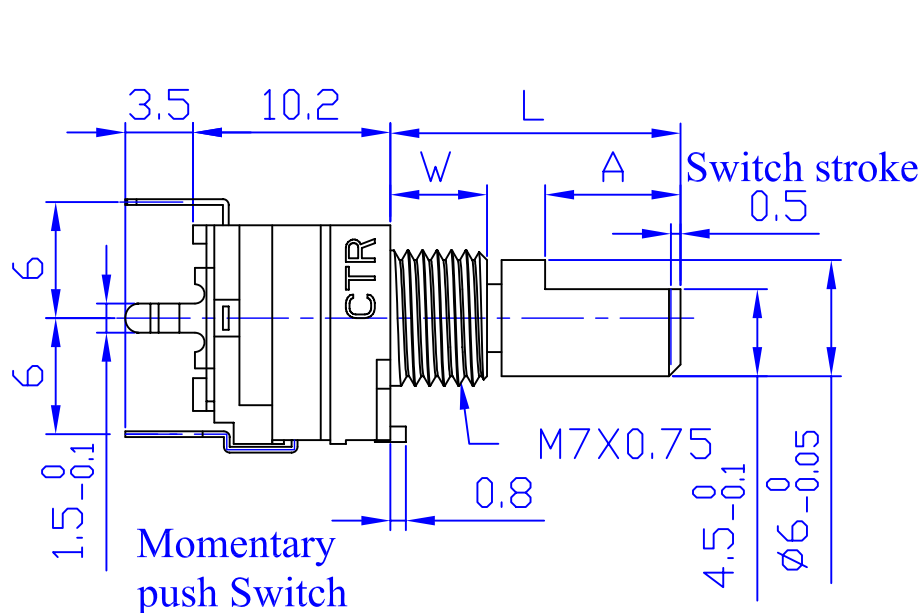
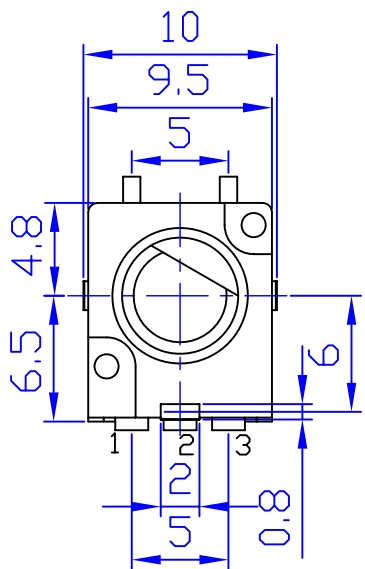
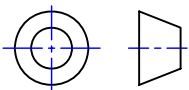


# 电位器规格书

## POTENTIOMETER SPECIFICATIONS

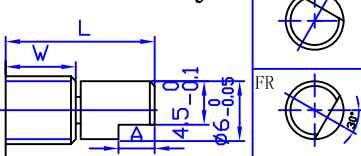
<b>1 一般事项</b> <b>General information</b>	
1-1 适用型号 Applicable models	R095、R096、R097、R098、R09J、R09P、R09B 系列 R095/R096/R097/R098/R09J/R09P/R09B Serial
1-2 使用环境温度 Usage environment temperature	<input checked="" type="checkbox"/> - 10℃ ~ + 70℃ <input type="checkbox"/> - 20℃ ~ + 70℃
1-3 保存环境温度 Storage environment temperature	- 40℃ ~ + 85℃
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。  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.
1-7 原产地 Country of origin	中国 China
<b>2 构造</b> <b>Construction</b>	
2-1 外观 Appearance	各部件应完整, 无锈蚀、裂痕、电镀不良 Every part should finished, 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.
<b>3 机械性能</b> <b>Mechanical characteristics</b>	
3-1 全回转角度 Total rotational angle	<input checked="" type="checkbox"/> 300° ± 10° <input type="checkbox"/> _____
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 CC 脱出力 Detent torque	80~250gf.cm
3-4 CC 点数 Detent quantity	<input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 21 <input type="checkbox"/> 41 <input type="checkbox"/> _____
3-5 回转止动强度 Rotational stopper strength	<input checked="" type="checkbox"/> ≥ 3Kgf.cm <input type="checkbox"/> ≥ 8Kgf.cm <input type="checkbox"/> ≥ 4Kgf.cm <input type="checkbox"/> ≥ 5Kgf.cm
3-6 轴压引强度 Pull-Push Strength of Shaft	<input checked="" type="checkbox"/> ≥ 8Kgf <input type="checkbox"/> ≥ 10Kgf
3-7 螺母锁紧强度 Nut tightening strength	≥ 10Kgf.cm
3-8 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/20mm On the tip of the single shaft exert 250gf , Shaft radial deviant be smaller than: 0.7*shaft long L size/20mm
<b>4 电气性能</b> <b>Electrical characteristics</b>	
4-1 全阻抗值 Total resistance	<input checked="" type="checkbox"/> _____ KΩ ± 20% <input type="checkbox"/> _____ KΩ ± 10% <input type="checkbox"/> _____ KΩ + _____ % / - _____ %
4-2 阻抗变化特性 Resistance taper	<input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> _____

4-3 残留阻抗值 (端子: 1-2, 2-3) End resistance (Terminal :1-2, 2-3)	$R \leq 10K \Omega : \leq 10 \Omega ; \quad 10K \Omega < R \leq 250K \Omega : \leq 20 \Omega ; \quad R > 250K \Omega : \leq 0.1\%R$		
4-4 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: 20V DC 或 50V AC, 其它线性: 12V DC 或 25V AC B Taper : 20V AC or 50V AC, Other taper : 12V DC or 25V AC		
4-6 滑动杂音 Slider noise	<100mV		
4-7 同步误差 Gang error	<input type="checkbox"/> $\pm 4dB (-40dB \sim 0dB)$ <input type="checkbox"/> $\pm 3dB (-40dB \sim 0dB)$ *只适用于双联 *Apply the Dual-Unit only		
4-8 绝缘抵抗 Insulation resistance	250V DC, >100M $\Omega$		
4-9 耐电压 Voltage proof	300V AC 1 分钟以上 1 Minute at 300V AC		
4-10 回转寿命 Rotational life	<input checked="" type="checkbox"/> 10,000 cycles <input type="checkbox"/> 15,000 cycles <input type="checkbox"/> 30,000 cycles 注: 无负荷状态以每小时 600 周旋转, 允许阻值最大变化 $\pm 15\%$ 。 On the without load status according to the 600 r./h rotation, permissible resistance change $\pm 15\%$ max.		
<b>5 开关性能</b> <b>Switch characteristics</b>			
<input checked="" type="checkbox"/> 适用 <input type="checkbox"/> 不适用 Apply                              No apply			
5-1 开关型式 Switch type	<input type="checkbox"/> 旋转式 <input checked="" type="checkbox"/> 按压复位式 Rotate type                      Push-Push type		
5-2 开关回路 Switch circuit	单极单投 S.P.S.T		
5-3 开关定格电力 Switch ratings power	旋转开关: 12V DC 1A                      按压复位开关: 12V DC 0.5A Rotate switch: 12V DC 1A                      Push-Push switch: 12V DC 0.5A		
5-4 开关接触电阻 Switch contact resistance	寿命初期: 100 m $\Omega$ 最大, 开关 10,000 次以后: 最大 1 $\Omega$ The life initial stage: 100 m $\Omega$ max., after on-off 10,000 cycles: 1 $\Omega$ max.		
5-5 开关工作角度或行程 Switch working angle or track	旋转开关: 50° $\pm$ 10° 按压复位开关行程: 0.5mm 或 1.5mm, 具体参照图纸 Rotate switch: 50° $\pm$ 10° . Push-Push switch track: 0.5mm or 1.5mm, specific reference to the drawing.		
5-6 开关工作力矩 Switch working torque	旋转开关: 最大 800gf.cm                      按压开关: 700 $\pm$ 300gf Rotate switch: 800gf.cm max.                      Push-Push switch: 700 $\pm$ 300gf		
5-7 开关寿命 Switch life	10,000 cycles		
<b>6 防水性能</b> <b>Waterproof characteristics</b>			
6-1 防水标准 Waterproof standard	<input checked="" type="checkbox"/> 不适用 No apply  <input type="checkbox"/> 七级防水 电位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 1M deep of water, other component sealed after be exposed to the standard atmosphere, after 30 minutes no water into the Potentiometer' inner.		
<b>东莞市长泰尔电子有限公司</b> <b>DONG GUAN CHANG TAI ER ELECTRONIC CO., LTD.</b>		制作 Designed By	审核 Checked By
		核准 Approved By	

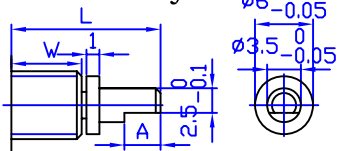


轴的类型:

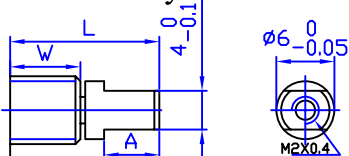
F□ Shaft Style



FD Shaft Style



SA Shaft Style



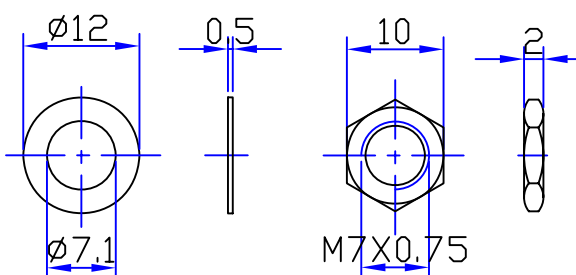
L	15	16.5	17	18	18	20	20	20.8	14
A	7	5.5	8	5.4	9.5	5.4	12	10	8

L	15	16.5	17	18	18	20	20	20.8
A	7	5.5	8	5.4	9	5.4	12	10

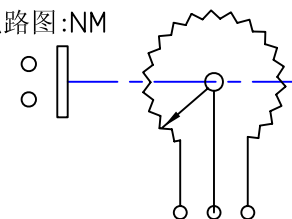
L	15	10	17	18	18	20
A	7	4	8	5.4	9.5	5.4

Washer垫圈(可选件)

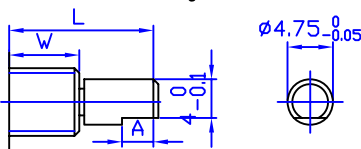
Nut螺母(可选件)



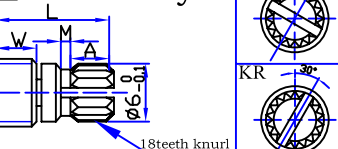
电路图:NM



FC Shaft Style



K□ Shaft Style



L	15	16.5	17	18	18	20	20	20.8
A	7	5.5	8	5.4	9	5.4	12	10

L	15	16.5	17	18	18	20	20	20.8
A	7	5.5	8	5.4	9	5.4	12	10
M	1	1	1	1	1	2	2	2

未注尺寸公差	
L≤1.0时	±0.1
1.0<L≤10时	±0.3
10<L≤30时	±0.5
30<L≤100时	±1.0

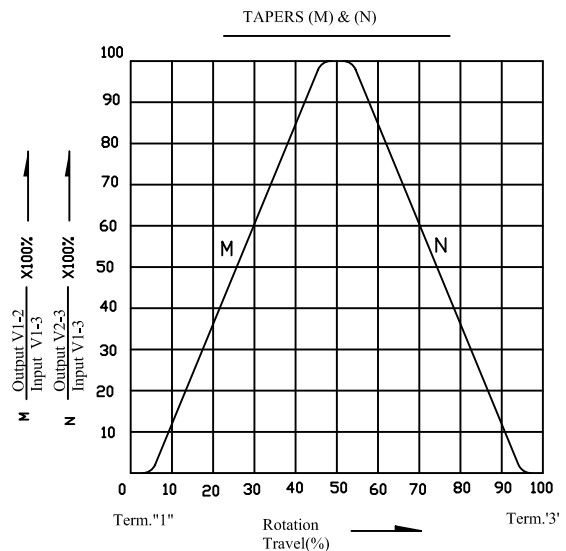
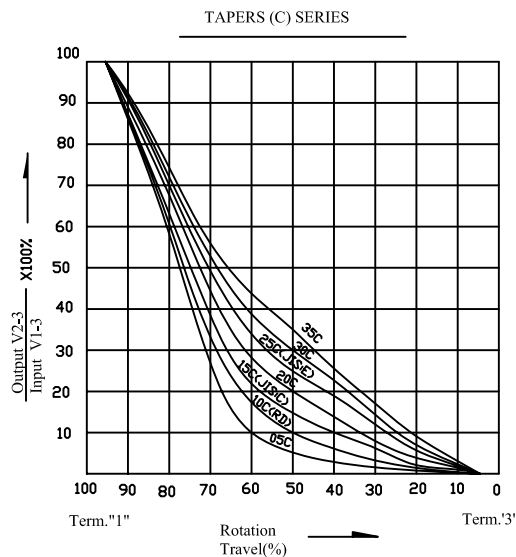
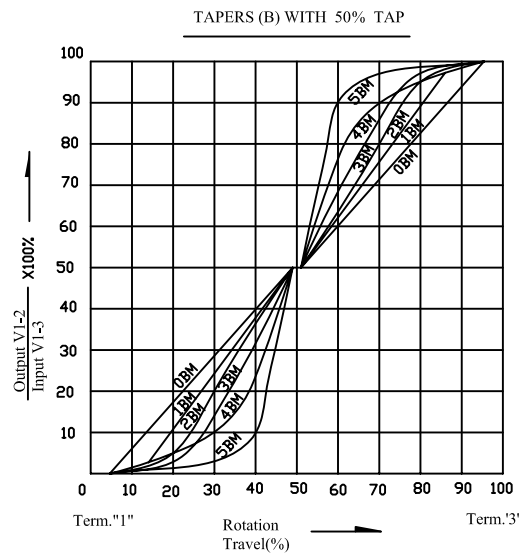
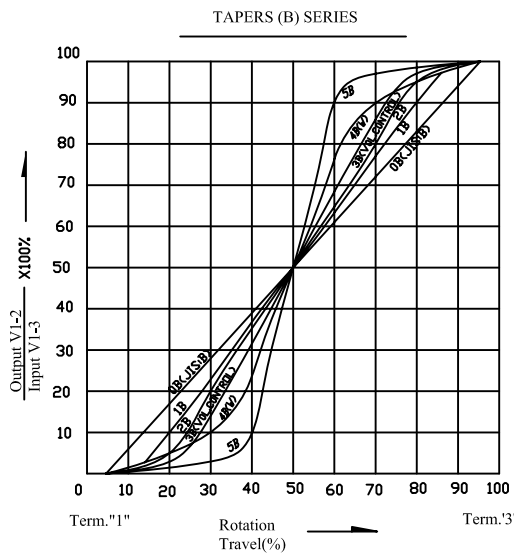
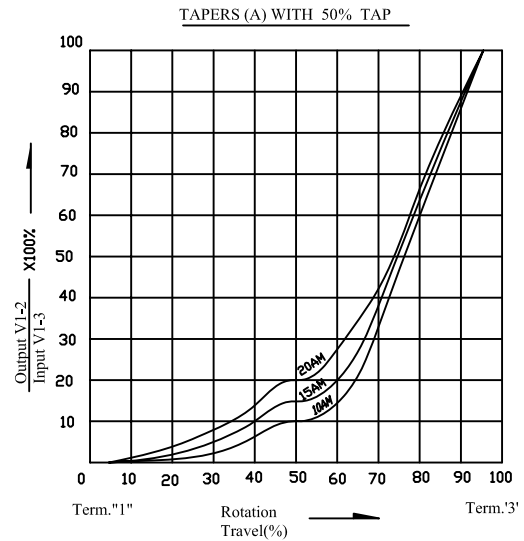
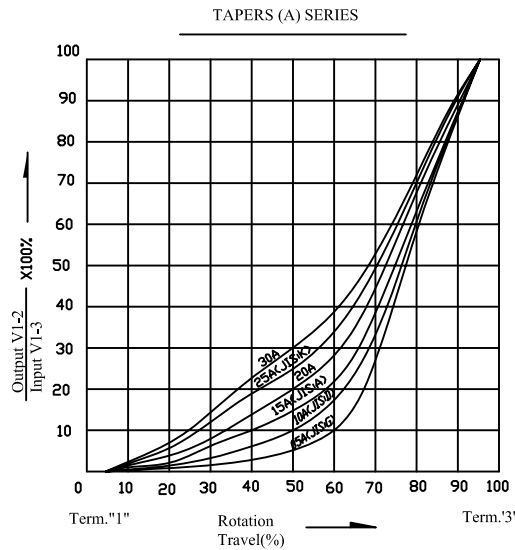
东莞市长泰尔电子有限公司

比例	2.5:1	版本	1.1	单位	mm	设计	审核	批准
品名	R097□2NM安装尺寸图							
图号	R097□2NM							

# 东莞市长泰尔电子有限公司

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### 阻抗变化特性 Resistance tapers



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[GS1G044P103UA](#) [GS1T032S103UA](#) [A43-1500](#) [A43-20K](#) [A47-200K](#) [A4720K](#) [RK14K1220-F25-C0-A103](#) [RK14K1220F25C0C104](#)  
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[A43S-5](#) [A47-15K](#) [A47-1K](#) [A4750K](#) [SPPG056P103U](#) [SWE-10](#) [GA2G040F103BA](#) [GA2G056S503UA](#) [GA2G056S504UA](#) [GA2L040S502UC](#)  
[GA2L040S503UC](#) [POT-3217-02 \(MW22S-3217-500\)](#)