

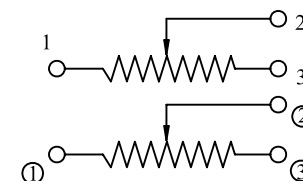
电位器规格书

POTENTIOMETER SPECIFICATIONS

1 一般事项 General information	
1-1 适用型号 Applicable models	R161、R166、R167、R168 系列 R161/R166/R167/R168 Serial
1-2 使用环境温度 Usage environment temperature	☒ - 10℃ ~ + 70℃ ☐ - 20℃ ~ + 70℃
1-3 保存环境温度 Storage environment temperature	☒ - 20℃ ~ + 70℃ ☐ - 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。 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
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, 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° ±5°
3-2 回转力矩 Rotational torque	30~150gf.cm (旋转速度: 60° /1 秒) 30~150gf.cm (Rotational velocity : 60° /1 Sec.)
3-3 CC 脱出力 Detent torque	50~200gf.cm
3-4 CC 点数 Detent quantity	☒ 0 ☐ 1 ☐ 41
3-5 回转止动强度 Rotational stopper strength	≥6Kgf.cm
3-6 轴压引强度 Pull-Push Strength of Shaft	≥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
4 电气性能 Electrical characteristics	
4-1 全阻抗值 Total resistance	☒ 100 KΩ ±20% ☐ KΩ ±10% ☐ KΩ +___%/-___%
4-2 阻抗变化特性 Resistance taper	☐ A ☒ B ☐ C ☐ _____

4-3 残留阻抗值 (端子: 1-2, 2-3) End resistance (Terminal :1-2, 2-3)	R≤10K Ω: ≤10 Ω; 10K Ω < R≤250K Ω: ≤20 Ω; R>250K Ω: ≤0.1%R			
4-4 定格电力 Ratings power	B 线性: 0.1W, 其它线性: 0.05W B Taper : 0.1W, Other taper : 0.05W			
4-5 最高使用电压 Maximum operating voltage	20V DC 或 150V AC 20V DC or 150V AC			
4-6 滑动杂音 Slider noise	<100mV			
4-7 同步误差 Gang error	☒ ±4dB (-40dB~0dB) ☐ ±3dB (-40dB~0dB) *只适用于双联 *Apply the Dual-Unit only			
4-8 绝缘抵抗 Insulation resistance	500V DC, >100M Ω			
4-9 耐电压 Voltage proof	500V AC 1 分钟以上 1 Minute at 500V AC			
4-10 回转寿命 Rotational life	☒ 10,000 cycles ☐ 50,000 cycles 注: 无负荷状态以每小时 600 周旋转, 允许阻值最大变化±15%。 On the without load status according to the 600 r./h rotation, permissible resistance change ±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 Rotate 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	12V DC 1A			
5-4 开关接触电阻 Switch contact resistance	寿命初期: 100 m Ω 最大, 开关 10,000 次以后: 最大 1 Ω The life initial stage: 100 m Ω max., after on-off 10,000 cycles: 1 Ω max.			
5-5 开关工作角度或行程 Switch working angle or track	50° ±10°			
5-6 开关工作力矩 Switch working torque	80~200gf.cm			
5-7 开关寿命 Switch life	10,000 cycles			
6 防水性能 Waterproof characteristics				
6-1 防水标准 Waterproof standard	☒ 不适用 No apply ☐ 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 the water no into the Potentiometer' 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
				

Mounting hole detail



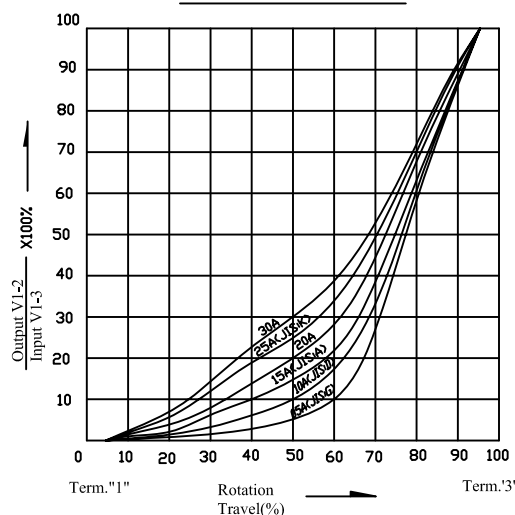
东莞市长泰尔电子有限公司						
比例	2:1	版本	1.2	设计	审核	批准
品名	R16100GO 外形图 R16110GO			工程 2016.03.25	工程 2016.03.25	工程 2016.03.25
图号	R16100GO R16110GO			谢敏	喻钊	彭先炎

东莞市长泰尔电子有限公司

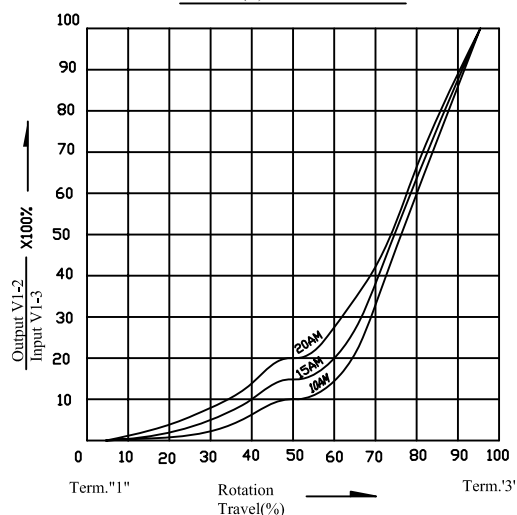
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阻抗变化特性 Resistance tapers

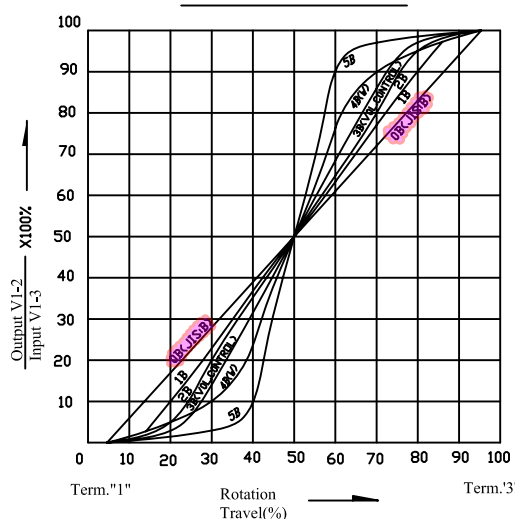
TAPERS (A) SERIES



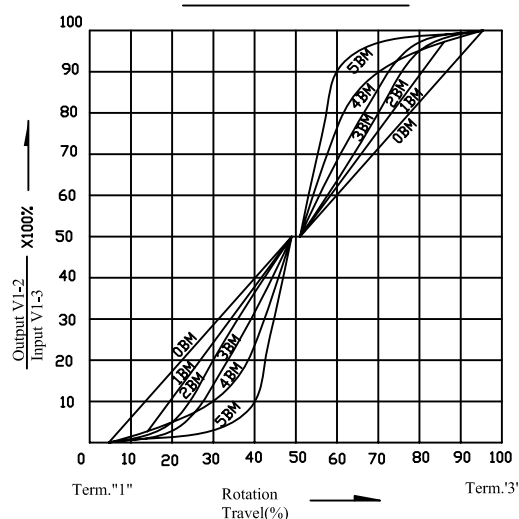
TAPERS (A) WITH 50% TAP



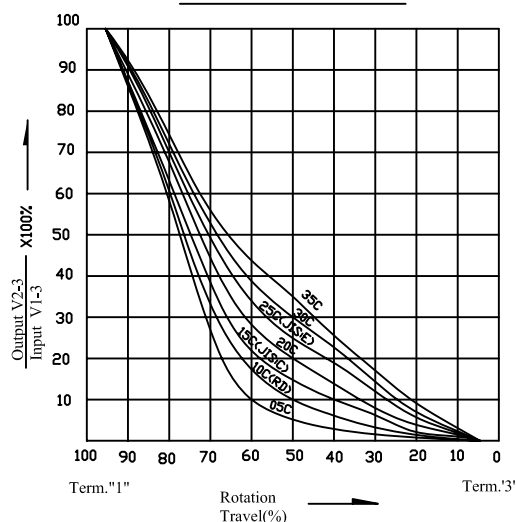
TAPERS (B) SERIES



TAPERS (B) WITH 50% TAP



TAPERS (C) SERIES



TAPERS (M) & (N)

