



■ 轴的尺寸和轴端可按用户要求供货  
Bespoke shaft dimension and shape available upon request

## WXJ3601 型精密单圈线绕电位器 WXJ3601 Precision, single-turn, wirewound potentiometer

### ■ 适用标准 Applicable Specifications

■ GB/T15298-94 电子设备用电位器 第一部分：总规范

### ■ 电特性 Electrical Characteristics

- 标称阻值范围 Range of nominal resistance( $\Omega$ ): 100~50K
- 阻值允许偏差 Resistance tolerance:  $\pm 5\%$
- 线性精度 Linearity:  $\pm 0.25\%$  (可提供  $\pm 0.15\%$ ,  $\pm 0.15\%$  available)
- 终端电阻 Terminal resistance:  $\leq 1\%R$  或  $5\Omega$ , 取较大者  
 $\leq 1\%R$  或  $5\Omega$ , Whichever greater
- 峰值噪声 Peak noise:  $\leq 100\Omega$
- 绝缘电阻 Insulation resistance:  $R_i \geq 1G(500V)$
- 耐电压 Dielectric withstand voltage:  $900V_{AC}$   
正常大气压下 (Atmospheric pressure)
- 极限电压 Limiting Voltage (V) : 300
- 电气角度 Electrical angle:  $356^\circ \pm 2^\circ$

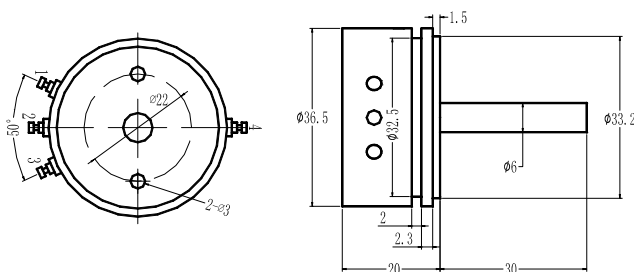
### ■ 环境特性 Environmental Characteristics

- 额定功率 Rating Power:  $2W @ 70^\circ C, 0W @ 125^\circ C$
- 温度范围 Temperature range:  $-55^\circ C \sim +125^\circ C$
- 电阻温度系数 TCR:  $\pm 100 \times 10^{-6}/^\circ C$ , 低于  $500\Omega$  的为  $\pm 150 \times 10^{-6}/^\circ C$   
( $\pm 150 \times 10^{-6}/^\circ C$ , when  $R < 500\Omega$ )
- 温度冲击 Thermal Shock:  
 $-55^\circ C \sim +125^\circ C$ , 5 cycles;  $\Delta R \leq \pm 5\%R$
- 稳态湿热 Damp heat, steady state GB/T15298-94, 4.39 item  
 $\Delta R \leq \pm (2\%R + 0.1\Omega), R_i \geq 100M\Omega$
- 振动 vibration: GB/T15298-94, 4.35 item  
 $\Delta R \leq \pm (0.5\%R + 0.05\Omega), \Delta(U_{ab}/U_{ac}) \leq \pm 1\%$
- 冲击 Shock: GB/T15298-94, 4.35 item  
 $\Delta R \leq \pm (0.5\%R + 0.05\Omega)$
- 电气耐久性 Electrical Endurance:  $70^\circ C, 2W, 1000h$   
 $\Delta R \leq \pm (0.2\%R + 0.1\Omega)$
- 转动噪声 Rotational noise:  $\leq 500\Omega$
- 机械耐久性 Mechanical Endurance: 25000 cycles;  
 $\Delta R \leq \pm (5\%R + 0.1\Omega)$

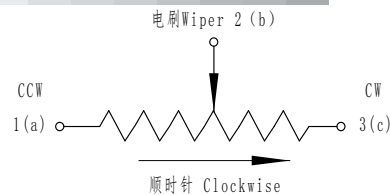
### ■ 物理特性 Physical Characteristics

- 启动力矩 Starting torque:  $\leq 4 mN \cdot m$
- 转动力矩 Running torque:  $\leq 3 mN \cdot m$
- 终端止档力矩 End stop torque:  $\leq 500 mN \cdot m$
- 安装形式 Method of mounting
- 螺纹孔安装 M3, 深度 4mm  
Threaded hole installation: M3 depth 4mm
- 重量 Weight:  $\leq 50g$
- 标志: 商标、型号、阻值、线性  
Marking: Code symbol, Type, Resistance, Linearity
- 标准包装 Standard package: 1 只/盒, 1pcs/box

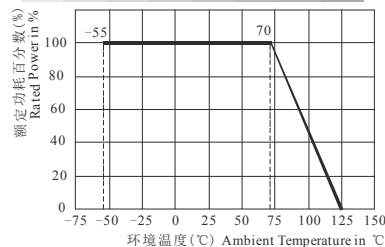
### ■ 外形尺寸图 Dimensions



### ■ 电路图 Circuit Diagram



### ■ 降功耗曲线 Derating



### ■ 标称阻值表

Nominal Resistance Table

阻值( $\Omega$ ) Resistance	分辨率(%) Resolution
100	0.42
200	0.40
500	0.38
1K	0.30
2K	0.24
5K	0.17
10K	0.13
20K	0.10
50K	0.07

### ■ 订货指南 Ordering Information

WXJ3601 - 4.7K

型号 Type - 标称阻值 Resistance