



■ 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(Ω): 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 5Ω ,取较大者
 $\leq 1\%R$ 或 5Ω , 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: $356^\circ \pm 2^\circ$

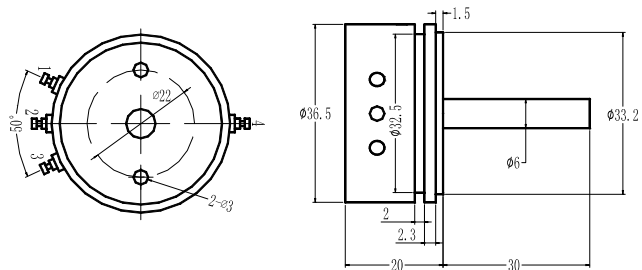
■ **环境特性 Environmental Characteristics**

- 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 500Ω 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;
 $\Delta R \leq \pm (5\%R + 0.1\Omega)$

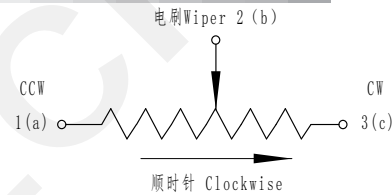
■ **物理特性 Physical Characteristics**

- 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

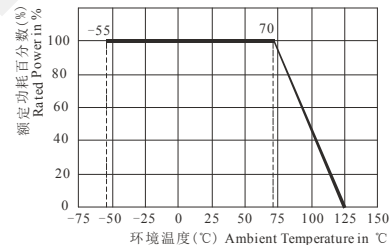
■ **外形尺寸图 Dimensions**



■ **电路图 Circuit Diagram**



■ **降功耗曲线 Derating**



■ **标称阻值表 Nominal Resistance Table**

阻值(Ω) 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

线绕电位器