



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

POL20 型精密单圈导电塑料电位器 POL20 Precision single turn conductive plastic 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): 500~20K
- 阻值允许偏差 Tolerance: $\pm 10\%$
- 终端电阻 Terminal resistance: $\leq 2\%R$ 或 2Ω , 取较大者
 $\leq 2\%R$ 或 2Ω , Whichever greater
- 独立线性度 Linearity: $\pm 1\%$
(可提供 $\pm 0.5\%$, $\pm 0.5\%$ available)
- 耐电压 Dielectric withstand voltage: $450 V_{AC}$
(正常大气压 Atmospheric pressure)
- 极限电压 Limiting Voltage(V): 300
- 电气角度 Electrical angle: $270^\circ \pm 5^\circ$
- 机械角度 Mechanical angle: $275^\circ \pm 5^\circ$

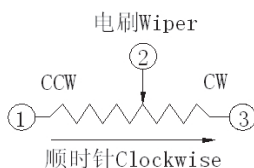
■ 环境特性 Environmental characteristics

- 额定功率 Rated Power: $0.5W @ 70^\circ C, 0W @ 125^\circ C$
- 温度范围 Temperature range ($^\circ C$): $-55 \sim +125$
- 电阻温度系数 TCR: $\leq \pm 400 \times 10^{-6} / ^\circ C$
- 稳态湿热 Damp heat, steady state: GB/T15298-94, 4.39 item
 $\Delta R \leq \pm (2\%R \pm 0.1\Omega)$, $R_i \geq 100M\Omega$
- 振动 Vibration: GB/T15298-94, 4.35 item
 $\Delta R \leq \pm (0.5\%R \pm 0.05\Omega)$, $\Delta (U_{ab}/U_{ac}) \leq \pm 1\%$
- 冲击 Shock: GB/T15298-94, 4.35 item
 $\Delta R \leq \pm (0.5\%R \pm 0.05\Omega)$
- 电气耐久性 Electrical Endurance: $70^\circ C, 1000h$
 $\Delta R \leq \pm (2\%R \pm 0.1\Omega)$
- 机械耐久性 Rotational Life: 50000 cycles;
 $\Delta R \leq \pm (2\%R \pm 0.1\Omega)$

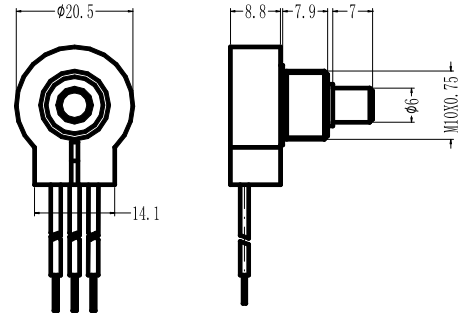
■ 物理特性 Physical characteristics

- 启动力矩 Starting torque: $\leq 3mN.m$
- 终端止档力矩 Stop Torque: $\leq 300mN.m$
- 重量 Weight: $\leq 25g$
- 标志: 商标、型号、阻值、日期代码
Marking: Code symbol, type, resistance, date code
- 标准包装 Standard package: 20 只/捆 20pcs/bundle
- 安装形式 Mounting
轴套安装(Bushing Mounted)
轴套螺纹(screw thread of the bushing)为 M10 \times 0.75

■ 电路图 Circuit diagram

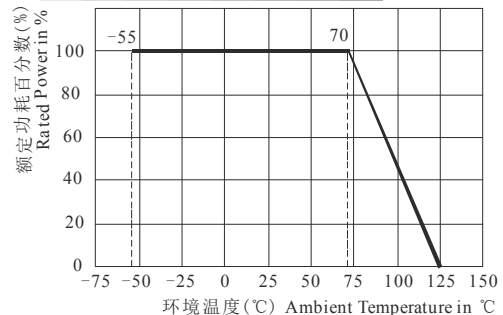


■ 外形尺寸图 Dimensions



公差: 除注明外均为 ± 0.5
Tolerance is ± 0.5 , unless otherwise specified

■ 降功耗曲线 Derating



■ 标称阻值表

Nominal resistance table

阻值 Resistance (Ω)
500
1K
2K
4K7
5K
10K
20K

■ 订货指南 Ordering Information

P-O-L-20-1K

精密 Precision-单圈 Single turn-导电塑料 conductive plastics-型号 Type-标称阻值 Resistance