

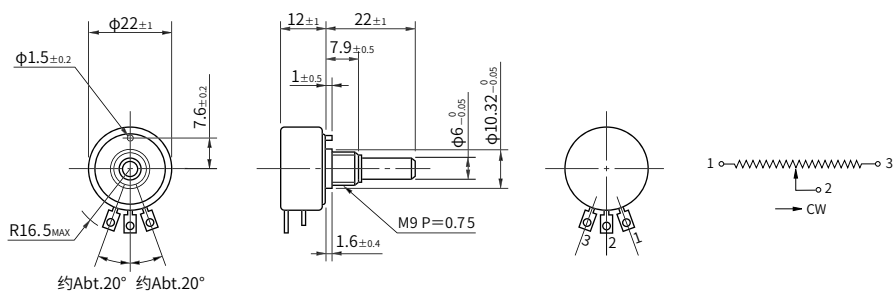
CP22E

CP22E 系列精密单圈电位器
CP22E Series Precision Single-Turn Potentiometer



- ◆ 线绕 / Wirewound
- ◆ 轴套安装 / Bushingmount
- ◆ 经济型 / Low-cost Item
- ◆ 符合RoHS / RoHS Compliant
- ◆ 无停止位（连续旋转） / No stopper (endless)

标准尺寸 / Standard Dimensions



选型指导 / Selection Guide

例 / Example: CP22E-5K

S → 特殊规格 / Special Specification	S 特殊机械规格 / Special mechanical specifications
CP → 产品系列 / Series	CP 线绕电阻 / Wirewound resistive element type
22E → 外径 / Dimensions	22E 壳体外径Φ22mm / Housing diameter Φ22mm
5K → 阻值 / Resistance value	5K 50Ω~20kΩ
00000 → 4或5位数 / 4 or 5 digits branch number	00000 用于特殊需求 / To be used for specific requirements

一般机械性能 / General Mechanical Specifications

机械行程 Mechanical travel	360° (连续旋转Endless)
防护等级 Protection grade (IP)	IP40
启动力矩 Starting torque	≤5mN·m(50gf·cm)
预期旋转寿命 Rotational life expectancy	25°C, 40r.p.m.无负载轴500,000转, 总阻值变化低于初始值±5%, 独立线性公差低于额定值150%, 信噪低于500ΩE.N.R. / 25°C, No load at 40 r.p.m.500,000 shaft revolutions, Total resistance value variation: ≤±5% against initial value, Independent linearity tolerance: ≤150% of specified value, Noise: ≤500Ω E.N.R.
质量 Mass	Approx.20g
外壳 Housing material	塑料 Plastic



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环境特性 / Environmental Specifications

工作温度 Operating temperature range	-55℃~+105℃
温度循环 Temperature cycle	在-55℃~+105℃循环5次，总阻值变化低于±5%，无机械损坏。/ 5 cycles under -55℃~+105℃, total resistance value variation: ≤±5%, No mechanical damage.
低温 Exposure at low temperature	在-55℃24小时，总阻值变化低于±5%，无机械损坏。/ 24 hours at -55℃, Total resistance value variation: ≤±5%, No mechanical damage.
高温 Exposure at high temperature	在105℃1000小时，总阻值变化低于±5%，无机械损坏。/ 1,000 hours at 105℃, Total resistance value variation: ≤±5%, No mechanical damage.
振动 Vibration	10Hz~2000Hz, 147m/s ² , 12小时，总阻值变化低于±5%，无机械和电气损坏。/ 10Hz~2000Hz, 147m/s ² , 12 hours, Total resistance value variation: ≤±5%, No mechanical and electrical damage.
冲击 Shock	490m/s ² , 11ms, 18次，总阻值变化低于±1%，无机械和电气损坏。/ 490m/s ² , 11ms, 18 times, Total resistance value variation: ≤±1%, No mechanical and electrical damage.
耐湿性能 Moisture resistance	40℃, 95%RH, 240小时，总阻值变化低于±10%，绝缘电阻：大于10MΩ。/ 40℃, 95%RH, 240 hours, Total resistance value variation: ≤±10%, Insulation resistance: ≥10MΩ.
电阻温度系数 Resistance temperature coefficient	±20p.p.m./℃

一般电气性能 / General Electrical Specifications

标准阻值范围 Standard resistance range	50Ω~10kΩ
最大可选阻值 Max. practical resistance value	20kΩ
总阻公差 Total resistance tolerance	标准级Standard class ±3%(H)，精密级Precision class ±1%(F)
独立线性公差 Independent linearity tolerance	标准级Standard class ±0.5%，精密级Precision class ±0.25% (≤1kΩ, ±0.35%)
电气行程 Electrical travel	355°±5°
功率 Power rating	0.5W
绝缘电阻 Insulation resistance	≥1000MΩ(1000V.D.C.)
介质耐压 Dielectric strength	1000V.A.C./1 min
信噪 Noise	≤100ΩE.N.R.

标准阻值 / Standard resistance values

阻值 (Ω) Resistance value (Ω)	50	100	200	500	1k	2k	5k	10k	*20k
绕线匝数 No. of wire turns	300	370	470	450	570	740	1000	1270	1670
使用的电阻线 Resist. wire used	铜镍合金 / Cu-Ni			镍铬合金 / Ni-Cr					

注：带*的产品指特高阻值。Note: Mark* shows special high resistance value.

其他规格 / Other Specifications

其他规格 Other specifications	如您想选择该系列标准产品（带停止位、机械行程320°，停止耐压为0.6N·m[6kgf·cm]），请查看CP22TE样本资料。/ If you want to select this series of standard products (with stop position, mechanical stroke 320°, stopper strength 0.6N·m [6kgf·cm]), please refer to our CP22TE datasheet.
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* 如有其他特殊要求请与思博联系。For other special requirements, please contact with SIBO.

(当产品带特殊规格时，其一般机械/电气性能和环境性能可能发生改变，请预先同思博确认。When products come with special or customized specifications, general mechanical/electrical performance and environmental performance may vary. Please confirm with SIBO in advance.)

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