

独立线性度高, 寿命长 Improved linearity, long life
螺钉, 法兰安装 Screw, flange mounted
作角度传感器使用 Used as angular position sensor

WD1505B 型精密导电塑料电位器 (角位移传感器)

WD1505B Precision conductive plastic potentiometer (Angular position sensor)

位
移
传
感
器

■适用标准 Applicable Specifications

GJB 1865-1994 非线性精密电位器总规范
Q/RU 510-2017 WD1505 系列精密导电塑料电位器 (角位移传感器) 详细规范

■电特性 Electrical Characteristics

标称阻值范围 Range of nominal resistance	2.2k Ω (可提供特殊阻值)
阻值允许偏差 Resistance tolerance	$\pm 10\%$
绝缘电阻 Insulation resistance	$R_i \geq 1G\Omega (500V_{DC})$
独立线性度 Independent linearity	$\leq \pm 0.5\%$
输出平滑性 Output smoothness	$\leq 0.1\%$
介质耐电压 Dielectric withstand voltage	500V _{AC} , 1min
有效电行程 Effective electrical travel	60° $\pm 5^\circ$ (可提供特殊有效电行程)

■环境特性 Environmental Characteristics

额定功率 Power rating	0.2W@70°C, 0W@125°C
温度范围 Temperature range	-55°C~125°C
电阻温度特性 RTC	$\leq \pm 5\%$
低温工作 Low temperature operation	-55°C, 2h45min (0.2W, 45min); $\Delta R \leq \pm 5\%R$, 旋转力矩 $\leq 5mN\cdot m$
温度冲击 Thermal shock	-55°C~125°C, 5次循环; $\Delta R \leq \pm 10\%R$
冲击 Shock	$\pm 15g$, 半正弦波, 11ms, 三轴向各3次; 无大于0.1ms的瞬时电气中断
高频振动 High-frequency vibration	GJB 360B-2009, 方法204, 试验条件B; 无大于0.1ms的瞬时电气中断, $\Delta R \leq \pm 2\%R$
高温寿命 High temperature life	125°C, 1000h; $\Delta(U_{12}/U_{13}) \leq \pm 0.5\%$
旋转负荷寿命 Rotational load life	400r/min, 100万圈; $\Delta R \leq \pm 10\%R$
耐湿 Moisture proof	GJB 1865A-2015中4.5.28; $\Delta R \leq \pm 10\%R$, $R_i \geq 10M\Omega (500V_{DC})$

■物理特性 Physical Characteristics

旋转力矩 Running torque	$\leq 3mN\cdot m$
总机械行程 Total mechanical travel	360°
标志 Mark	型号、标称阻值、阻值偏差、独立线性度、引脚 Type, Nominal resistance, Resistance tolerance, Independent linearity, Terminals
标准包装 Standard package	1pcs/box

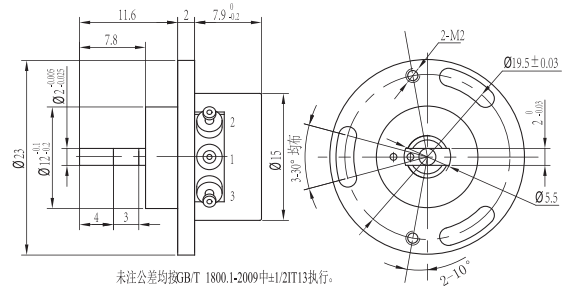
■订货指南 Ordering Information

WD1505B-2.2k Ω -K- $\pm 5\%$ -60

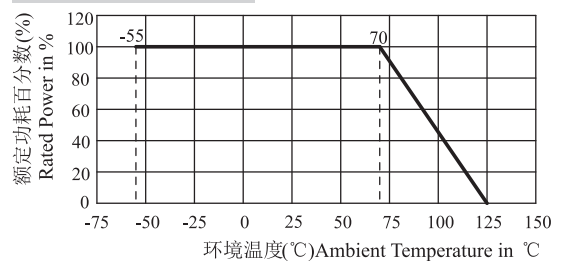
型号Type-标称阻值Nominal resistance-允许偏差Tolerance-独立线性度Linearity-有效电行程Effective electrical travel

(注Record: 该系列包括WD1505、WD1505B、WD1505C等8个型号The series consists of 8 models, such as WD1505, WD1505B and WD1505C)

■外形尺寸图 Dimensions



■降功耗曲线 Derating



■电路图 Circuit Diagram

