

 国军标产品

■ 军用电子元器件质量认证合格证书编号
COC-P-638-2001

WR2210 型精密多圈线绕电位器
WR2210 Precision, multi-turn, wirewound potentiometer

■ 适用标准 Applicable specifications

- GJB1523-92 精密多圈线绕电位器总规范
- Q/RU21523.1-2000 WR2210 型多圈精密线绕电位器详细规范

■ 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 available: $\pm 0.15\%$)
- 终端电阻 Terminal resistance: $\leq 1\%R$ 或 5Ω ,取较大者
 $\leq 1\%R$ or 5Ω , whichever greater
- 峰值噪声 Peak noise: $\leq 100\Omega$
- 绝缘电阻 Insulation resistance: $R_i \geq 1G(500V)$
- 介质耐压 Dielectric withstand voltage: $750V_{AC}$
正常大气压(Atmospheric pressure)
- 极限电压 Limiting Voltage: $300V$
- 电气角度 Electrical angle: $3600^\circ \pm 4^\circ$

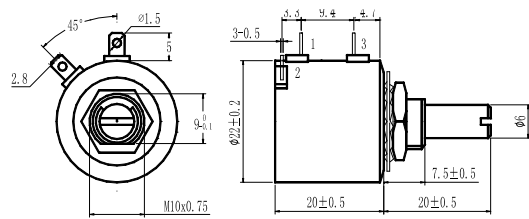
■ 环境特性 Environmental characteristics

- 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: $\pm 50 \times 10^{-6}/^\circ C$, 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: $-65^\circ C \sim +125^\circ C, 5$ cycles;
 $\Delta R \leq \pm 5\%R$
- 耐湿 Moisture proof: GJB360A-96, Method 106,240h;
 $\Delta R \leq \pm 3\%R, R_i \geq 100M\Omega$
- 高频振动 High frequency vibration:
GJB360A-96, Method 204
 $\Delta R \leq \pm 5\%R$
- 冲击 Shock:GJB360A-96, Method 213
无机械或电气损伤,亦应无瞬时间断现象
(No mechanical or electrical damage, no transient discontinuity either)
- 负荷寿命 Load Life: $70^\circ C, 2W, 1000h; \Delta R \leq \pm 5\%R$
- 旋转寿命 Rotational life:25000 cycles; $\Delta R \leq \pm 5\%R$
- 低温工作 Low temperature operation: $-65^\circ C, 4h; \Delta R \leq \pm 5\%R$
- 盐雾 Salt Spray: 氯化钠(NaCl)5%, $35^\circ C$ 96h;
无可见的腐蚀现象
(No appreciable corrosion)

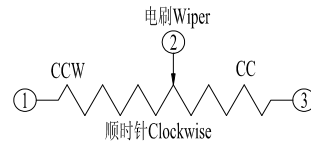
■ 物理特性 Physical characteristics

- 启动力矩 Starting torque: ≤ 3 mN·m
- 转动力矩 Running torque: ≤ 3 mN·m
- 终端止档力矩 End stop torque: ≤ 500 mN·m
- 安装形式 Method of mounting
轴套安装,轴套螺纹为 $M10 \times 0.75$
Bushing mounted, bushing screw threads: $M10 \times 0.75$
- 重量 Weight: $\leq 25g$
- 标志:商标、型号、阻值、日期代码、电路图
Marking: Code symbol, type, resistance, date code, circuit diagram
- 标准包装 Standard package: 20 只/盒,20pcs/box

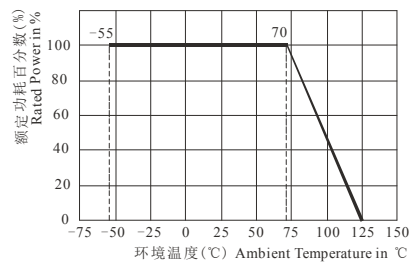
■ 外形尺寸图 Dimensions



■ 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	0.04
200	0.04
500	0.04
1K	0.035
2K	0.030
5K	0.02
10K	0.018
20K	0.012
50K	0.010

■ 订货指南 Ordering information

WR2210-D-2-B-7-C-10K

型号 Type – 函数和轴长 Function And Shaft Length
– 级别和中心抽头 Grade And Center Tap –
电阻温度特性 Temperature Characteristic –
旋转寿命 Rotational Life – 函数符合性偏差阻值偏差
Functional Conformity Error And Resistance Tolerance
– 标称阻值 Resistance