



- 等效美军标准 MIL-R-22097 : MIL-R-22097 qualified
- 可提供密封型产品 Sealed products available

TD083 型线绕预调电位器 TD083 Wirewound preset potentiometer

■ 适用标准 Applicable Specifications

- GJB917-90 线绕预调电位器总规范
- Q/RU803-2004 TD083 型螺杆驱动线绕预调电位器详细规范

■ 电特性 Electrical Characteristics

- 标称阻值范围 Range of rated resistance (Ω): 10~20K
- 阻值允许偏差 Tolerance: $\pm 5\%$
- 终端电阻 Terminal resistance: $\leq 2\%R$ 或 1Ω , 取较大者
 $\leq 2\%R$ or 1Ω , Whichever greater
- 峰值噪声 Peak Noise (Ω): ≤ 100
- 绝缘电阻 Insulation Resistance: $R_i \geq 1G\Omega (500V_{DC})$
- 介质耐电压 Dielectric withstand voltage: $900V_{AC}$
(正常大气压 Atmospheric pressure)
- 有效电行程 Effective Electrical travel: 25 ± 1 turns

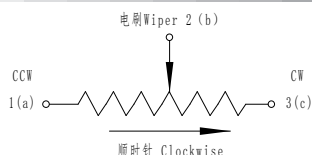
■ 环境特性 Environmental Characteristics

- 额定功率 Rated Power ($300V_{max}$): $0.75W @ 70^\circ C, 0W @ 125^\circ C$
- 温度范围 Temperature range($^\circ C$): $-55 \sim +125$
- 电阻温度系数 TCR: $\leq \pm 100 \times 10^{-6} / ^\circ C$
- 冲击 Shock: GJB360A-96, Method 213
 $ENR \leq 100\Omega, \Delta(U_{ab}/U_{ac}) \leq \pm 5\%$
- 高频振动 High frequency vibration: GJB360A-96, Method 204
 $ENR \leq 100\Omega, \Delta(U_{ab}/U_{ac}) \leq \pm 5\%$
- 耐湿 Moisture resistance: GJB360A-96, Method 106, 72h
 $\Delta R \leq \pm 5\% R, R_i \geq 100M\Omega$
- 高温寿命 Life(High Temperature): $70^\circ C, 0.75W, 1000h$
 $\Delta R \leq \pm 5\% R, \Delta(U_{ab}/U_{ac}) \leq \pm 2\%$
- 旋转寿命 Rotational life(Ω): 200 cycles;
 $\Delta R \leq \pm 5\% R, ENR \leq 100\Omega$
- 高温贮存 High temperature storage: $125^\circ C, 250h$
 $ENR \leq 100\Omega, \Delta(U_{ab}/U_{ac}) \leq \pm 5\%$
- 低温工作 Low temperature operating: $-55^\circ C, 0.75W$
 $ENR \leq 100\Omega, \Delta(U_{ab}/U_{ac}) \leq \pm 5\%$

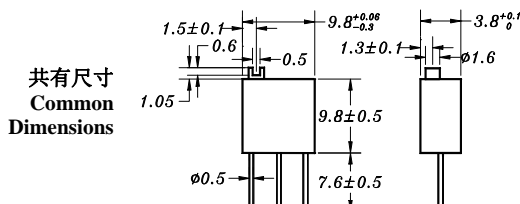
■ 物理特性 Physical Characteristics

- 启动力矩 Starting torque: $\leq 35mN \cdot m$
- 离合器力矩 Clutch Torque:
终端空转 25 圈, 反向调节电气连续。
Idle against the end for 25 turns, no evidence of electrical discontinuity in reversed direction.
- 重量 Weight: $\leq 1.3g$
- 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: 100 只/盒, 100pcs/box

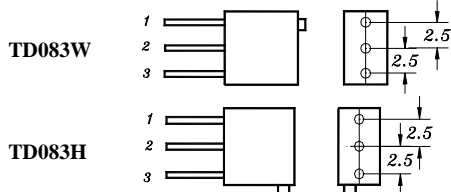
■ 电路图 Circuit Diagram



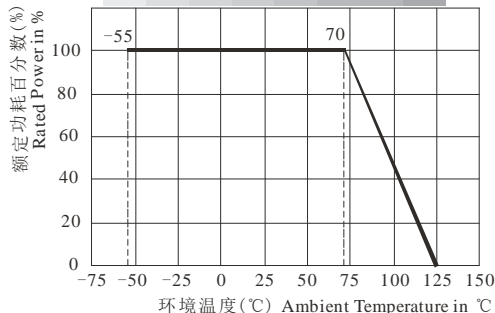
■ 外形尺寸图 Dimensions



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 (Ω) Resistance	电压 (V) Voltage	分辨率 Resolution
10	1.58	1.3
20	2.23	1.10
50	3.54	0.77
100	5.0	0.62
200	7.07	0.55
500	11.1	0.51
1K	15.8	0.37
2K	22.3	0.30
5K	35.4	0.25
10K	50.0	0.19
20K	70.7	0.18

■ 订货指南 Ordering information

TD083-W-5K

型号 Type-引出端形式 Terminal type

-标称阻值 Resistance