

3590S-2-502L BOURNS POTENTIOMETER CHINESE BRAND

P/N: 201026

型号: 3590S					
封装直径 Package Diameter (mm)	22	形状 Shape	圆形 Round	转数 Number of Turns	10
密封型 Sealable	IP65	轴 Shaft	金属 Nickel Plated Rail	电阻材料 Element	线绕 Wirewound
接线端 Terminal	接线片焊接/侧 Solder Lug/Side	输出特性 - 线性 Taper-Linear	X	线性度 Linearity	±0.25%
最小阻抗 Resistance - Minimum	100Ω	最大阻抗 Resistance - Maximum	100K	阻值误差 Tolerance resistance	±2%~±10%
额定功率 Power - Rating (W)	2	旋转角度 Angle of rotation	3600°	旋转寿命 (无负载) Rotational Life (no load) Cycles	10000
轴径 SHAFT DIAMETER	6.35mm				

电气特性 Electrical Characteristics

- 标称阻值范围 (Standard Resistance Range)
_____ 100Ω - 100KΩ
- 阻止允许偏差 (Resistance Tolerance)
_____ ± 5%
- 独立线性度 (Independent Linearity)
_____ ± 0.25%
- 终端电阻 (Terminal Resistance)
_____ ≤ 0.2%R 或 5Ω
- 转动噪音 (Noise)
_____ ≤ 3%R 或 3Ω
- 绝缘电阻 (Insulation Resistance)
_____ R1 ≥ 1GΩ
- 耐电压 (Withstand Voltage)
_____ 101.3kPa 710V 8.5kPa 470V
- 有效电行程 (Effective Electrical Travel)
_____ ≥ 3600° - 10°

物理特性 Physical Characteristics

- 总机械行程 (Total Mechanical Travel)
_____ 3600° ± 10°
- 起动力矩 (Starting Torque)
_____ ≤ 36mN.m
- 止档力矩 (Clutch Torque)
_____ ≥ 300mN.m
- 标准包装 (Standard Packaging)
_____ 50只/盒 (pcs/tube)

环境特性 Environment Characteristics

- 额定功率 (最高工作电压315V) (Rated Power)
 _____ +70°C 2W; +125°C 0W
- 工作温度范围 (Temperature Range)
 _____ -55°C ~ +125°C
- 电阻温度系数 (Temperature Coefficient)
 _____ ± 100ppm/°C
- 温度变化 (Temperature Variation)
 _____ $\Delta R \leq \pm 2\%R, \Delta (U_{ab}/U_{ac}) \leq \pm 1\%$
- 碰撞 (Vibration)
 _____ 390m/s²、4000次 $\Delta R \leq \pm 1\%R$
- 振动 (Collision)
 _____ 10 ~ 500HZ, 0.75mm或98m/s², 6h
 _____ $\Delta R \leq \pm 1\%R, \Delta (U_{ab}/U_{ac}) \leq \pm 2\%R$
- 气候顺序 (Climate Category)
 _____ $\Delta R \leq \pm 3\%R, R1 \geq 100M\Omega$
- 70°C电气耐久性 (Electrical Endurance at 70°C)
 _____ 2W、1000h、 $\Delta R \leq \pm 3\%R$
- 机械耐久性 (Mechanical Endurance)
 _____ 10000周(cycles)、 $\Delta R \leq \pm 3\%R$
- 稳态湿热 (Steady Damp-heat)
 _____ $\Delta R \leq \pm 3\%R, R1 \geq 100M\Omega$

