

- 额定功率为 0.75 瓦
- Rated power: 0.75 W
- 多圈调节
- Multi-turn adjustment
- 精密可调
- Precision tuning
- 性能可靠
- Reliable performance
- 体积小
- Compact size
- 精度高
- High precision

3006P

Technical drawing of the 3006P component, showing three views: front, top, and side.

Front View Dimensions:

- Total width: 19.3 ± 0.2
- Pin pitch (between pins 1, 2, and 3): 6.0 ± 0.5
- Pin diameter: 0.5 ± 0.1
- Distance from left edge to pin 1: 0.5 ± 0.1
- Distance from pin 3 to right edge: 1.3 ± 0.2

Top View Dimensions:

- Width: 4.9 ± 0.1
- Distance from top edge to pin center: 6.5 ± 0.1
- Distance from bottom edge to pin center: 4.7 ± 0.2
- Distance from left edge to pin center: 2.5 ± 0.05
- Distance from pin center to right edge: 1.4 ± 0.02

Side View Dimensions:

- Distance from bottom edge to top edge: 12.7 ± 0.05
- Distance from top edge to pin center: 5.08 ± 0.05
- Distance from pin center to right edge: 3.3 ± 0.2

Note: Hole diameter: $\Phi 2.5 \pm 0.2$, 0.6 ± 0.1 , 0.6 ± 0.1

参数名称 Parameter Name	参数指标 Parameter Specification
标称阻值范围 Nominal Resistance Range	10Ω-5MΩ
阻值允许偏差 Resistance Tolerance	±10%
终端电阻 Terminal Resistance	R12≤3% R or 2Ω (取其大者) R23≤3% R or 2Ω (取其大者)
极限动触点电流 Max Wiper Current	100mA
耐电压 Dielectric Withstanding Voltage (频率为 40~60Hz 的交流峰值电压)	8.5KPa: 315Vac 101.3KPa: 500V
有效电行程 Effective Electrical Travel	>总机械行程的 70% > 70% of total mechanical travel

■ 环境特性 Environmental Characteristics

参数名称 Parameter Name	参数指标 Parameter Specification
额定功率 (最高工作电压 250V) Rated Power (Max Operating Voltage 250V)	0.75W@70°C; 0W@100°C
工作温度范围 Operating Temperature Range	-55°C ~ +100°C
电阻温度系数 Resistance Temperature Coefficient	±250 ppm /°C、±100 ppm /°C
温度变化 Temperature Cycling	-55°C,30min,+125°C,30min,循环 5 次; $\Delta R \leq \pm(2\%R+0.1\Omega)$, $\Delta(U_{ab}/U_{ac}) \leq \pm 3\%$
碰撞 Shock	390m/s ² ,4000 次, $\Delta R \leq \pm 5\%R$
振动 Vibration	10-500Hz,0.75mm, 6h; $\Delta R \leq \pm 5\%R$, $\Delta(U_{ab}/U_{ac}) \leq \pm 3\%$
70°C电气耐久性 Electrical Endurance at 70°C	After 48、500、1000h R_{ac} ; $\Delta R \leq \pm(5\%R+0.1\Omega)$ R_{ab} ; $\Delta R \leq \pm(5\%R+0.1\Omega)$
机械耐久性 Mechanical Endurance	200 周 (cycles) $\Delta R \leq \pm 3\%R$ $\leq 35 \text{ mN.m}$ $\leq 5\Omega$ 或 $3\%R$ (取其大者)

■ 物理特性 Physical Characteristics

参数名称 Parameter Name	参数指标 Parameter Specification
总机械行程 Total Mechanical Travel	22±2 turns
起动力矩 Starting Torque	$\leq 35 \text{ mN.m}$
标志 Marking	阻值代码、允许偏差(±10%不标注)、产品型号 Resistance code, tolerance (±10% not marked), product model
标准包装 Standard Packaging	25 只/管 25 pcs/tube

■ 标称阻值对照表 Nominal Resistance Code Table

标称阻值对照表 Nominal Resistance Code Table	
阻值 Resistance(Ω)	阻值代码 Code
10	100
20	200
50	500
100	101
200	201
500	501
1000	102
2000	202
5000	502
10000	103
20000	203
50000	503

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阻值 Resistance(Ω)	阻值代码 Code
100000	104
200000	204
500000	504
1000000	105
2000000	205

■ 产品命名规则 Product Naming Rules

命名规则 Product Naming Rules				
① 3006 ↓ - ② P ↓ - ③ 1 ↓ - ④ 102 ↓ - ⑤ LF ↓				
系列 Series	规格 Specification	标准品或者订制品标识 Standard or Customized Product MARK	阻值代码 Resistance Code	特性代码 Feature Code
3006	P	1=标准产品 1=standard product	102	空白: 无铅产品 (符合 RoHS) Blank: Lead-free product compliant with RoHS
			202	LF: 高端产品 (符合 RoHS) LF: High-end product compliant with RoHS