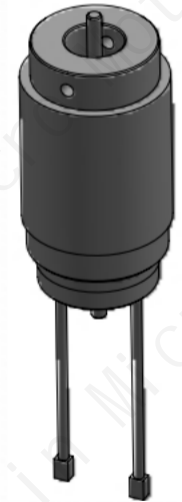


### Wire Specifications

1. Tinning length of wire tip: 0.7 - 1 mm
2. Red wire: Positive
3. Black wire: Negative
4. Wire 1 length: 140mm
5. Wire 2 length: 65mm



### Motor Performance Parameters

1. Motor Type: Coreless Brushed Motor
2. Operating Voltage: 12V
3. No-load Speed:  $22000 \pm 10\%$  RPM
4. No-load Current:  $\leq 30\text{mA}$
5. Load Speed:  $19500 \pm 10\%$  RPM
6. Load Torque:  $\geq 3 \text{ g} \cdot \text{cm}$
7. Load Current:  $\leq 150\text{mA}$
8. Stall Torque:  $\geq 10 \text{ g} \cdot \text{cm}$
9. Stall Current:  $\leq 300\text{mA}$
10. Terminal Resistance:  $\geq 22 \Omega$
11. Pole Pairs: 1 pair
12. Operating Temperature:  $-40 \sim 85^\circ\text{C}$
13. Noise Level:  $\leq 45 \text{ dB}$
14. Maximum Motor Efficiency: 70%

设计		第一视觉画法 	10mm Coreless Brushed Motor (Product Type)
审核			KS1015(12V22000R).xz (Product Model)
批准		未注线性与角度尺寸公差: GB\T1804-m eqv ISO 2768-1:m	Tsinglin Micro Motors Limited
日期	2026.05.20		