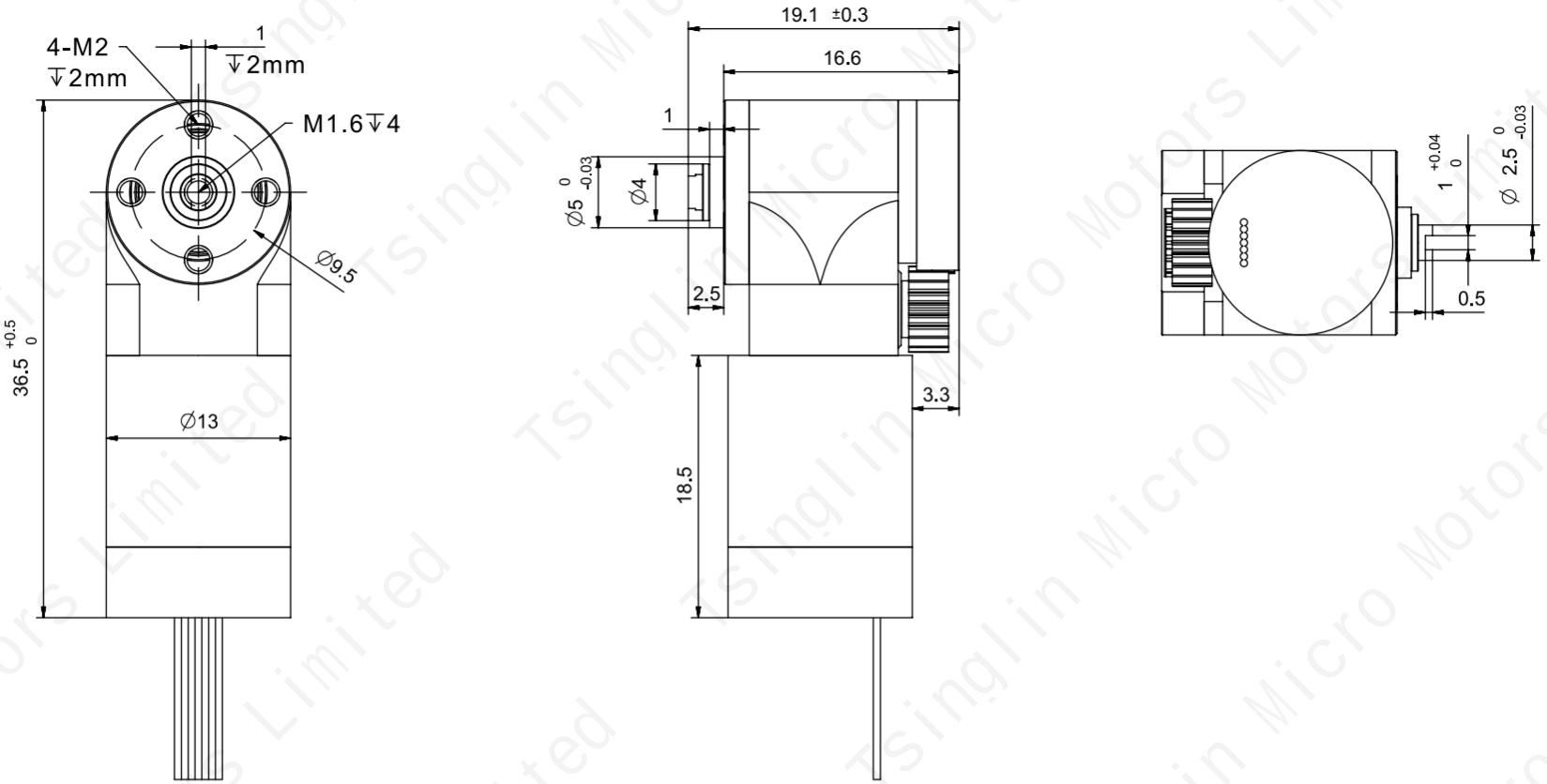


Motor Performance Parameters:

1. Motor Type: Coreless Brushless Motor
2. Operating Voltage: 12V
3. No-load Speed: 35000 ± 10% RPM
4. No-load Current: ⩽ 0.15 A
5. Rated Speed: 29750 ± 10% RPM
6. Rated Torque: ⩾ 0.84 mN • m
7. Rated Current: ⩽ 0.5 A
8. Pole Pairs: 2 pole pairs
9. Operating Temperature: -20 - 100 ℃
10. Noise: ⩽ 45 dB
11. Maximum Motor Efficiency: 75%

Geared Motor Performance Parameters:

1. Operating Voltage: 12V
2. No-load Speed: 140 ± 10% RPM
3. No-load Current: ⩽ 0.4 A
4. Load Speed: 110 ± 10% RPM
5. Load Torque: ⩾ 0.1 N • m
6. Load Current: ⩽ 0.5 A
7. Operating Temperature: -20 - 100 ℃
8. Gear Ratio: 1:250
9. Noise: ⩽ 55 dB
10. Gearbox Material: Pure steel (machined)

Built-in Driver: pin1-4 wires
pin1: GND Black
pin2: VDD Red
pin3: RXD Yellow
pin4: TXD Blue

设计	
审核	
批准	
日期	2026.11.12

第一视觉画法

未注线性与角度尺寸公差：
GB\T1804-m eqv
ISO 2768-1:m

Planetary Gearbox + Bevel Gear Reversal + 13mm Coreless Brushless Motor + Built-in Driver
（产品类型）

PG12K125-KW1310+TTL
（产品型号）

Tsinglin Micro Motors Limited