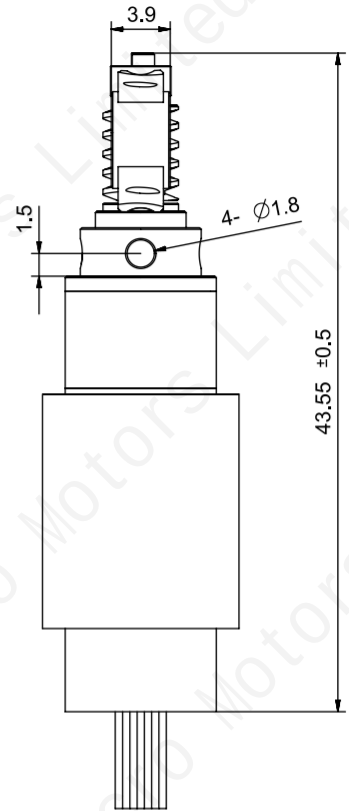
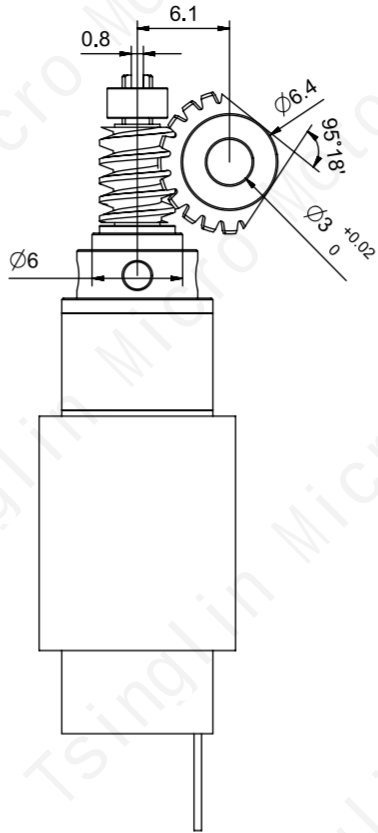
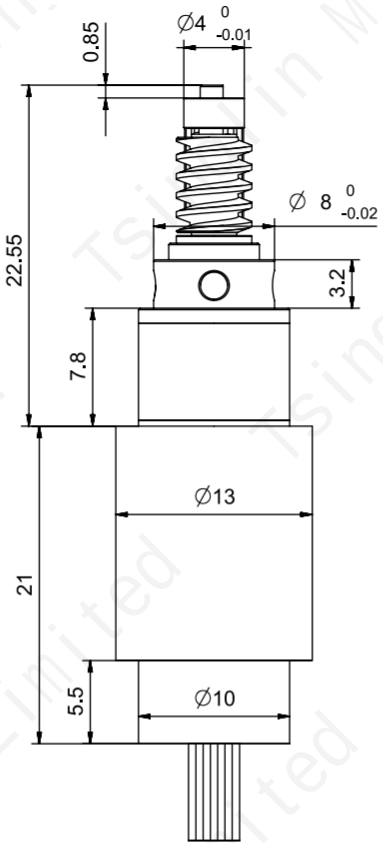


Worm and Worm Gear Parameter Table

	Worm	Worm Gear
Module	0.4	0.4
Number of Starts / Number of Teeth	1	20
Pressure Angle	20°	
Addendum Circle Diameter	5	8.8
Lead Angle	Right-hand 5.44°	
Worm Lead	1.257	
Worm Pitch	1.257	
Addendum Coefficient	1	1
Clearance Coefficient	0.25	0.25
Transmission Center Distance	6.1	
Material	20CrMnTi	
Accuracy Grade	GB/T 10095-2001 Grade 8	



Motor Performance Parameters:

- 1. Motor Type: Coreless Brushless Motor
- 2. Operating Voltage: 12 V
- 3. No-load Speed: 25000 ± 10% RPM
- 4. No-load Current: ≤ 0.4 A
- 5. Load Speed: 18000 ± 10% RPM
- 6. Load Torque: ≥ 15 g·cm
- 7. Load Current: ≤ 1 A
- 8. Stall Torque: ≥ 100 g·cm
- 9. Number of Pole Pairs: 2 pole pairs
- 10. Operating Temperature: -40 ~ 85 °C
- 11. Noise Level: ≤ 45 dB
- 12. Maximum Motor Efficiency: 75%

Geared Motor Performance Parameters:

- 1. Operating Voltage: 12 V
- 2. No-load Speed: 45 ± 10% RPM
- 3. No-load Current: ≤ 0.5 A
- 4. Rated Speed: 30 ± 10% RPM
- 5. Rated Torque: ≥ 2500 g·cm
- 6. Rated Current: ≤ 1.2 A
- 7. Operating Temperature: -40 ~ 80 °C
- 8. Reduction Ratio: 1:560
- 9. (Planetary 1:28, Worm & Worm Gear 1:20)
- 10. Noise Level: ≤ 55 dB
- 11. Gearbox Material: Solid Steel (Machined)

Built-in TTL Driver, Pin 1-4 Wiring
Pin1: GND (Black)
Pin2: VDD (Red)
Pin3: RXD (Yellow)
Pin4: TXD (Blue)

设计			10mm Planetary Gearbox + 13mm Coreless Brushless Motor + Worm & Worm Gearbox + Built-in Driver (Motor Type)
审核			
批准		未注线性与角度尺寸公差： GB/T 1804 - m eqv ISO 2768 - l : m	PG10K28-KW1317-LG04M20Z+TTL (Motor Model)
日期	2026.07.22		