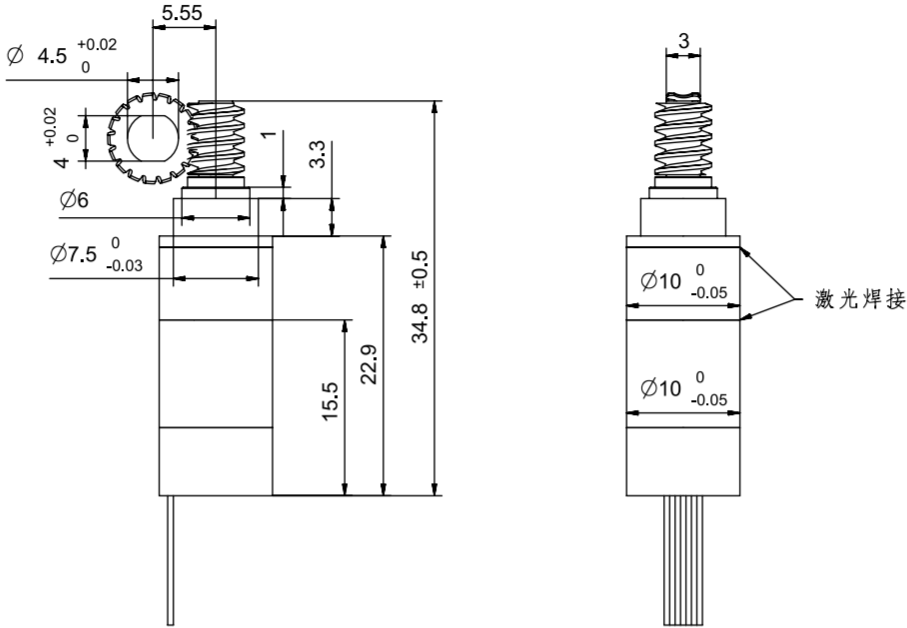


Worm and Worm Wheel Parameters		
Parameter	Worm	Worm Wheel
Module	0.4	
Starts / Teeth	1	17
Pressure Angle	20°	20°
Tip Diameter	5.0	7.6
Pitch Diameter	4.2	6.8
Lead Angle	Right-Hand 5.44°	
Worm Lead	1.257	—
Worm Pitch	1.257	—
Addendum Coefficient	1	1
Clearance Coefficient	0.25	0.25
Profile Shift Coefficient	—	—
Center Distance	5.55	
Material	20CrMnTi	
Accuracy Grade	GB/T 10095-2001 Grade 8	



Motor Performance Parameters	Geared Motor Performance Parameters
1. Motor Type: Coreless Brushless Motor 2. Operating Voltage: 12V 3. No load Speed: 45000±10%RPM 4. No load Current: ≤0.15A 5. Rated Speed: 38250±10%RPM 6. Rated Torque: ≥0.35mN·m 7. Rated Current: ≤0.3A 8. Number of Pole Pairs: 1 Pole pair 9. Operating Temperature: -40 ~ 85°C 10. Noise: ≤45°dB 11. Maximum Motor Efficiency: 75%	1. Operating Voltage: 12V 2. No load Speed: 90±10%RPM 3. No load Current: ≤0.3A 4. Rated Speed: 80±10%RPM 5. Rated Torque: ≥0.09N·m 6. Rated Current: ≤0.4A 7. Operating Temperature: -40 ~ 80°C 8. Gear Ratio: 1:476 (Planetary 1:28, Wormgear 1:17) 9. Noise: ≤55°dB 10. Gearbox Material: Solid Steel (Machined)

Built in Driver: 4 wire(Pin1-4)
 Pin 1: GND-Black
 Pin 2: VDD-Red
 Pin 3: RXD-Yellow
 Pin 4: TXD-Blue

设计		第一视觉画法 	10mm Planetary Gearbox + 10mm Coreless Brushless Motor + Worm gear Gearbox + Built in Driver (Motor Type)
审核			
批准		未注线性与角度尺寸公差： GB\T1804-m eqv ISO 2768-1:m	PG10K28-KW1010+LG04M17Z+TTL (Motor Model)
日期	2026.08.18		Tsinglin Micro Motors Limited