MC1028 Series

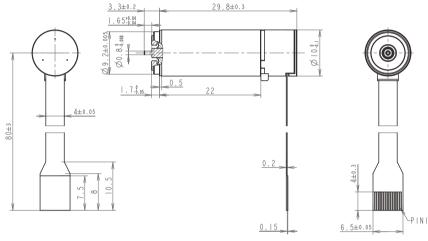
Ф10mm Brushless Coreless Motor

Key Features

- Two magnetic pole
- **2**6500rpm
- 1.5mNm
- 3.3mNm/A



Dimensional Drawing



Motor Data (Rated)	
Rated voltage (V)	12
No-Load Speed (rpm)	33000
No-Load Current (A)	0.11
Rated speed (rpm)	26500
Rated torque (mNm)	1.5
Rated current (A)	0.6
Stall torque (mNm)	8.8
Stall current (A)	2.8
Max. efficiency (%)	61

Motor Constant (Rated)	
Phase-to-Phase Resistance (Ω)	4.25
Phase-to-Phase inductance (mH)	0.083
Torque constant (mNm/A)	3.3
Speed constant (rpm/V)	2857
Speed/torque gradient (rpm/mNm)	3715
Mechanical time constant (ms)	3.13
Rotor inertia (gcm²)	0.09

Thermal Data	
Thermal resistance housing-ambient (K/W)	
Thermal resistance winding-housing (K/W)	
Thermal time constant winding (s)	
Thermal time constant motor (s)	
Ambient temperature (°C)	-20~+100
Max. winding temperature (°C)	125

Mechanical Data (Ball Bearing)	
Max. allowable speed (rpm)	40 000
Max. axial play (mm)	< 0.15 N 0
	> 0.15 N 0.06 (max)
Radial play	preloaded
Max. axial load dynamic(N)	2
Max. force for press fits (static) (N)	10
Max. radial load (2 mm from flange) (N)	5

Note: Specifications can be customized per customer requirements.

Terminal Type

Molex 52745-1297

Note: Specifications can be customized per customer requirements.

pin 1 Motor Winding 1 pin 2 Motor Winding 2 pin 4 Motor Winding 2 pin 5 Motor Winding 3 pin 6 Motor Winding 3 pin 6 Motor Winding 3 pin 7 VHall (3.3-5.5 VDC) pin 8 GND pin 9 A pin 10 B pin 11 Z pin 12 None