

NFP-D0816

CORELESS DC MOTOR

8mm coreless DC motor, 16mm type



- 1. 8mm coreless DC motor for compact applications.
- 2. High speed options up to 53,000rpm no-load speed.
- 3. Low rotor inertia and light 4.1g motor body.
- 4. Multiple winding options for 3.4V, 4.5V, and 6.0V designs.
- 5. Suitable for sub-10mm mechanisms, model aircraft, miniature devices, and precision drive assemblies.

8.1mm
MOTOR DIAMETER

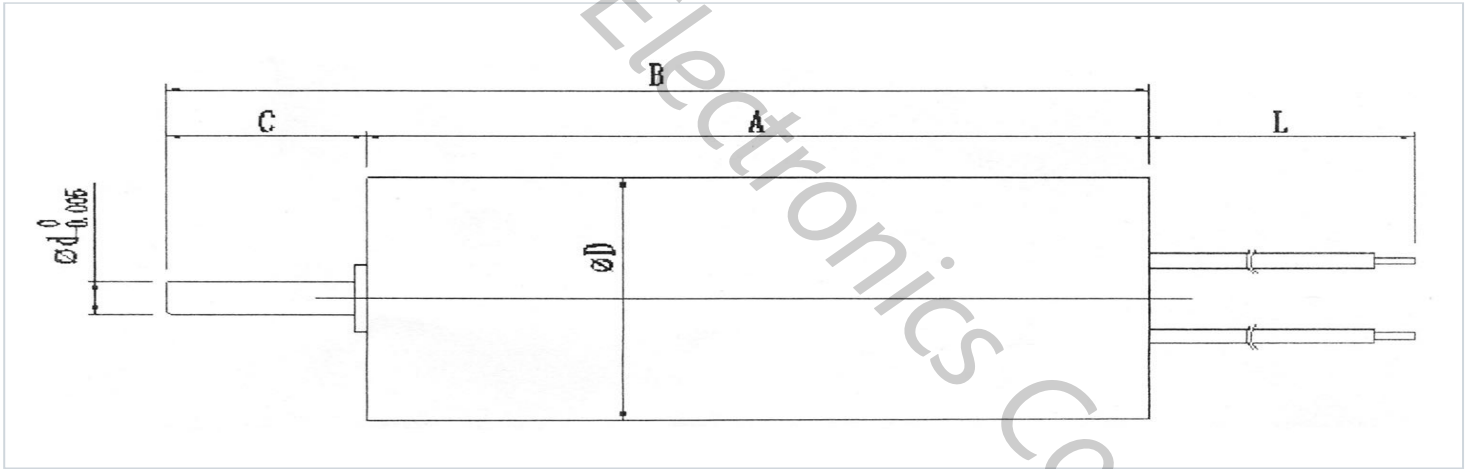
16.7mm
MOTOR LENGTH

4.1g
WEIGHT

DIMENSION DATA

Model	NFP-D0816
Motor Length - A	16.7mm ± 0.2mm
Total Length - B	21.6mm ± 0.3mm
Output Shaft Length - C	4.9mm ± 0.3mm
Motor Diameter - D	8.1mm ± 0.1mm

OUTLINE DRAWING



MOTOR PERFORMANCE DATA

Model	NFP-D0816-1-3.4	NFP-D0816-3-3.4	NFP-D0816-4-6.0
Voltage	3.4V	4.5V	6.0V
Terminal resistance	0.4Ω	5.4Ω	1.7Ω
No-load-speed	53,000rpm	15,500rpm	39,000rpm
No-load-current	140mA	8mA	24mA
Stall torque	49.21g.cm	22.01g.cm	51.7g.cm
Stall current	8,650mA	830mA	3,620mA
Max output power	6.692W	0.875W	5.174W
Max efficiency	72%	78%	82%
Torque constant	5.8g.cm/A	26.8g.cm/A	14.4g.cm/A
Rotor inertia	<0.1g.cm²	<0.1g.cm²	<0.1g.cm²
Weight	4.1g	4.1g	4.1g