



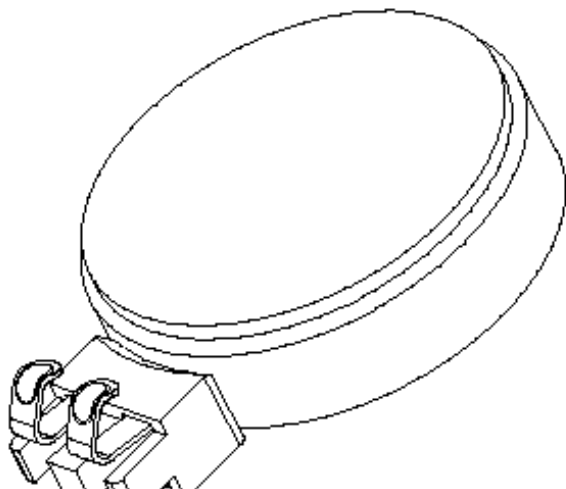
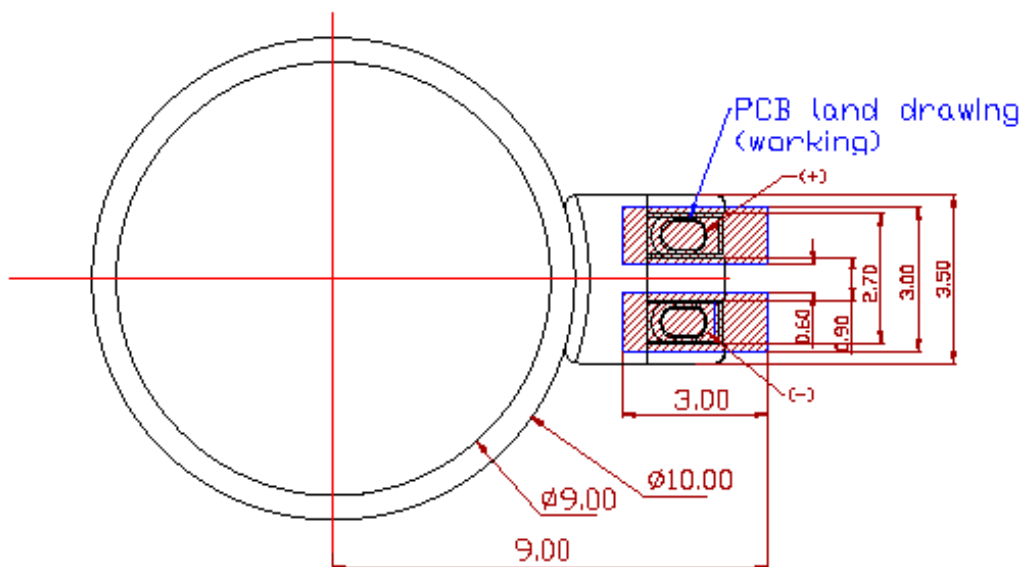
JinLong Machinery

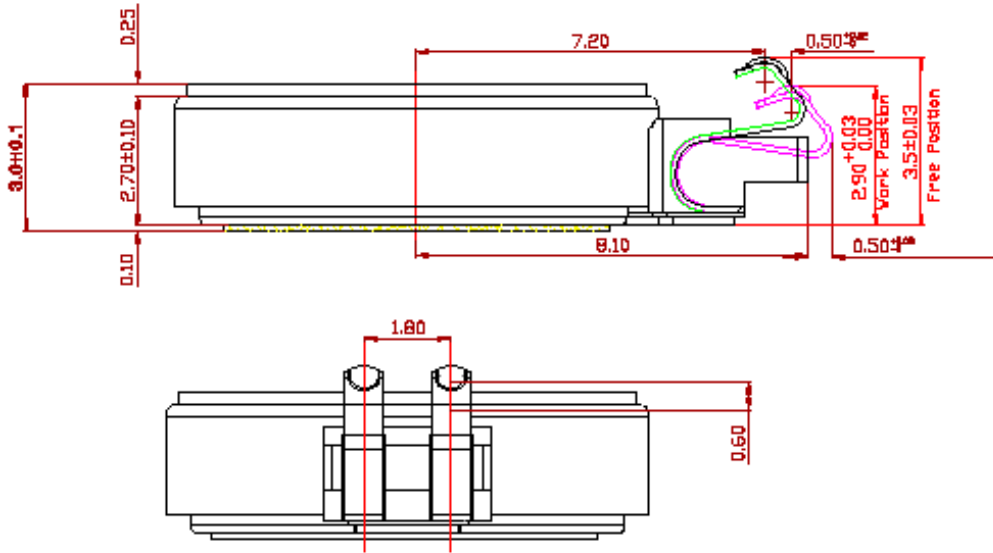
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Part No. C1026B300F





1. General

This specification applies to coin permanent-magnetic motors DC model C1026B series.

2. Operating condition

| Item | Specification |
|---------------------------|--|
| 2-1 Rated voltage | 3.0 V DC |
| 2-2 Operating voltage | 2.7 ~ 3.3V DC |
| 2-3 Rotation | CW (clockwise) or CCW (contrary clockwise) |
| 2-4 Operating environment | -20°C ~ +60°C , Ordinary Humidity |
| 2-5 Storage environment | -30°C ~ +70°C , Ordinary Humidity |

3. Measuring Condition

| Item | Specification |
|-----------------|---------------|
| 3-1 Temperature | 25±3°C |
| 3-2 Humidity | 65±20% RH |

| | | |
|-----|--------------|-----------------------|
| 3-3 | Air pressure | 1013±40 hPa |
| 3-4 | Current | Stabilized DC current |

4. Electrical initial characteristics

| Item | Specification | Condition |
|------|-----------------------|--|
| 4-1 | Rated speed | 9,000rpm Min |
| 4-2 | Rated current | 90 mA Max |
| 4-3 | Starting current | 120 mA Max |
| 4-4 | Starting voltage | 2.3 V DC Max |
| 4-5 | Insulation resistance | 10 MΩ Min |
| 4-6 | Terminal resistance | 31 Ω ± 15% (single posture) 59 Ω ± 15% (double posture) |

At rated voltage

Motor is rotating at min starting voltage.

At DC 100V between lead wire and case.

25°C
At 25°C

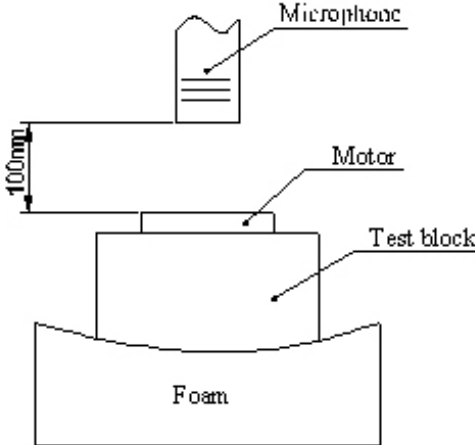
5. Mechanical characteristics

| Item | Specification |
|------|-----------------------------|
| 5-1 | Bracket deflection strength |
| 5-2 | Mechanical noise |

9.8 N or more

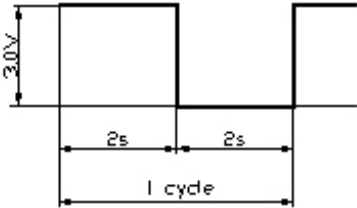
50 dB(A)Max

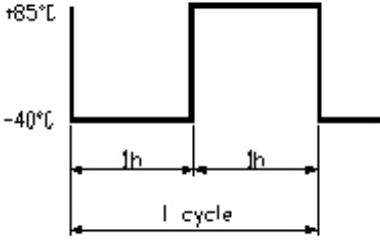
At rated voltage, back ground noise 28dB(A) Max



The diagram illustrates the test setup for measuring mechanical noise. It shows a microphone positioned 100mm above a motor, which is mounted on a test block. The test block is supported by a foam base. Labels include: Microphone, Motor, Test block, and Foam. A dimension line indicates the 100mm distance between the microphone and the motor.

6. Durability characteristics

| Item | Specification | Requirements |
|-------------------------------|--|---|
| 6-1 Lifetime | Test cycle: 50,000 cycles  | After the test, motors shall be approved as specified in item 7-1. |
| 6-2 Low temperature exposure | Temperature : -30°C Time : 96 h | After 4 hours exposure in ordinary temperature and humidity, motors shall be approved as specified in item 7-2. |
| 6-3 High temperature exposure | Temperature : +70°C Time : 96 h | |
| 6-4 Humidity exposure | Temperature : +40°C Humidity : 95%RH Exposure time : 96 h No condensation of moisture | |
| 6-5 Vibration | Displacement :1.5mm (p-p) Frequency: 10 ~ 55Hz Acceleration :22m/s ² Period:10min (10~55~10Hz) 10 Minutes log sweep (10~55~10Hz) Condition : This motion shall be applied for a period of 10 minutes in each of 3 mutually perpend axes. | After the test motors shall be approved as specified in item 7-2. |
| 6-6 Free fall | Test state: Set the motor to the approximately 100 g (include the motor) weight of block drop the motor on the concrete floor. Height :1.5 m Direction : ±x, ±y, ±z Number of times: Each 3 times Shock : 29,420 N m/s ² Equivalent (3,000 G) | After the test motors shall be approved as specified in item 7-2. |

| | | | |
|-----|-----------------|---|---|
| 6-7 | Heat stock test |  <p data-bbox="440 464 651 489">Test cycle: 15 cycles.</p> | After the test motors shall be approved as specified in item 7-2. |
|-----|-----------------|---|---|

7. Requirements

| Item | Requirements |
|-------------|--|
| 7-1 Table A | 1) Rated speed: Initial data-30 % Min/ Initial data+ 50 % Max 2) Rated current: Initial data-30 % Min/ Initial data+ 50 % Max 3) Starting voltage: 2.5 V DC Max 4) Insulation resistance: 10 MΩ Min |
| 7-2 Table B | 1) Rated speed: Initial data± 20 % Max 2) Rated current: Initial data± 20 % Max 3) Starting voltage: 2.5 V DC Max 4) Terminal resistance: Initial data± 15 % Max |

8. Matters to be paid attention to when using motor

8-1 Unless it is used in accordance with the specifications ,the performance and life may be considerably reduced . Due attention should be paid to voltage and range for use .

8-2 Advice use this motor within 6 months as avoiding as possible.

Avoid use or save the motor in the following environment.

1. High temperature and high humidity area.
2. Corrosive gas such as H₂S•SO₂•NO₂•Cl₂.
3. Dusty area.

8-3 Due attention must be paid to the handling and working environments because such objects as iron powder if attracted by the motor maganent, will cause noise, characteristic deterioration thus reducing the reliability.

8-4 Please confirm enough no problem of standards and laws and ordinances on your cellular.

8-5 To handle the motor ,hold the motor case softly.

8-6 Rust of plate (steel) and similar edge should be OK.

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