



# KOTL JinLong Machinery

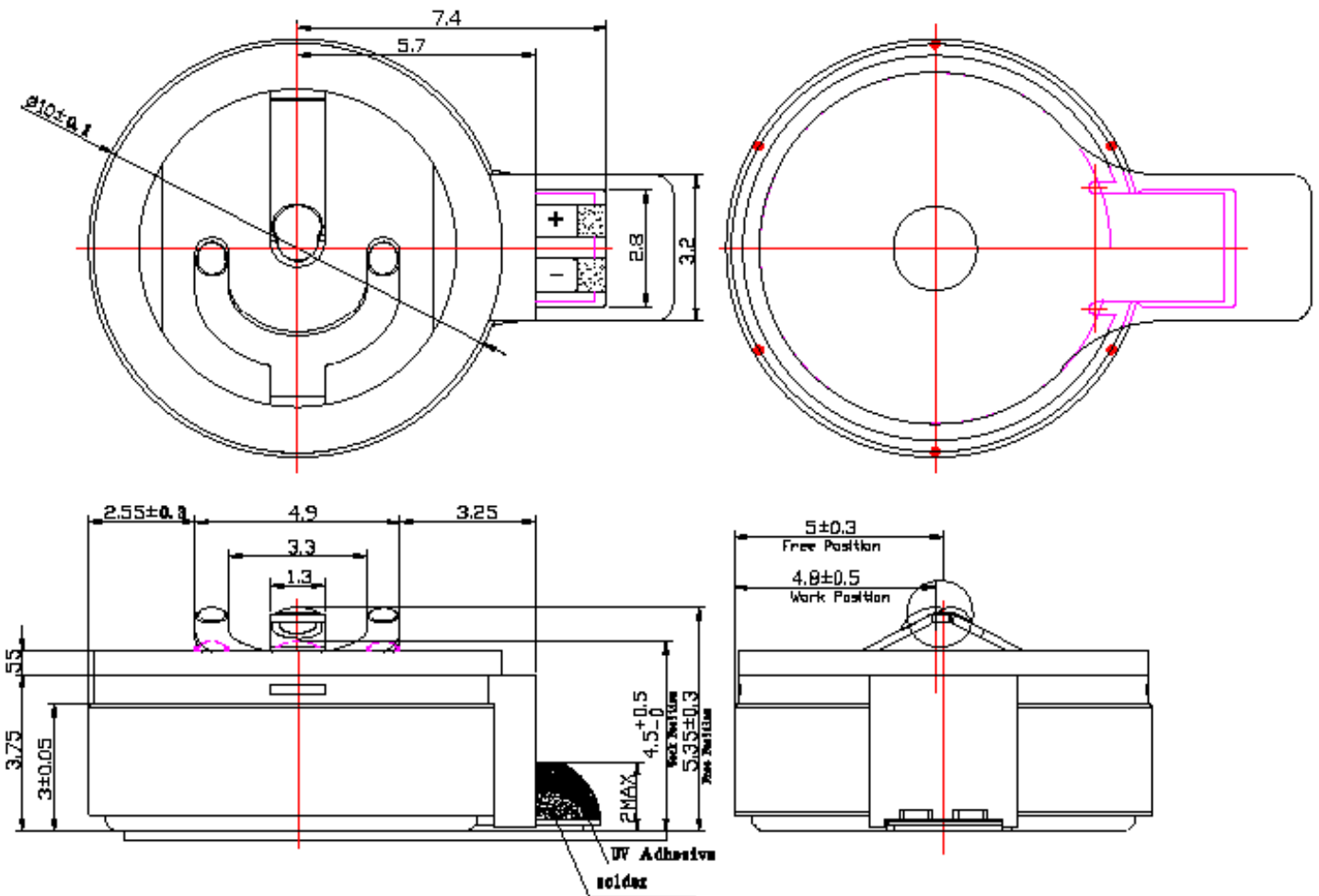
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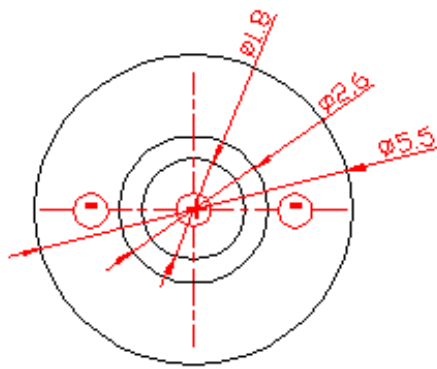
**Part No. C1030B200F**

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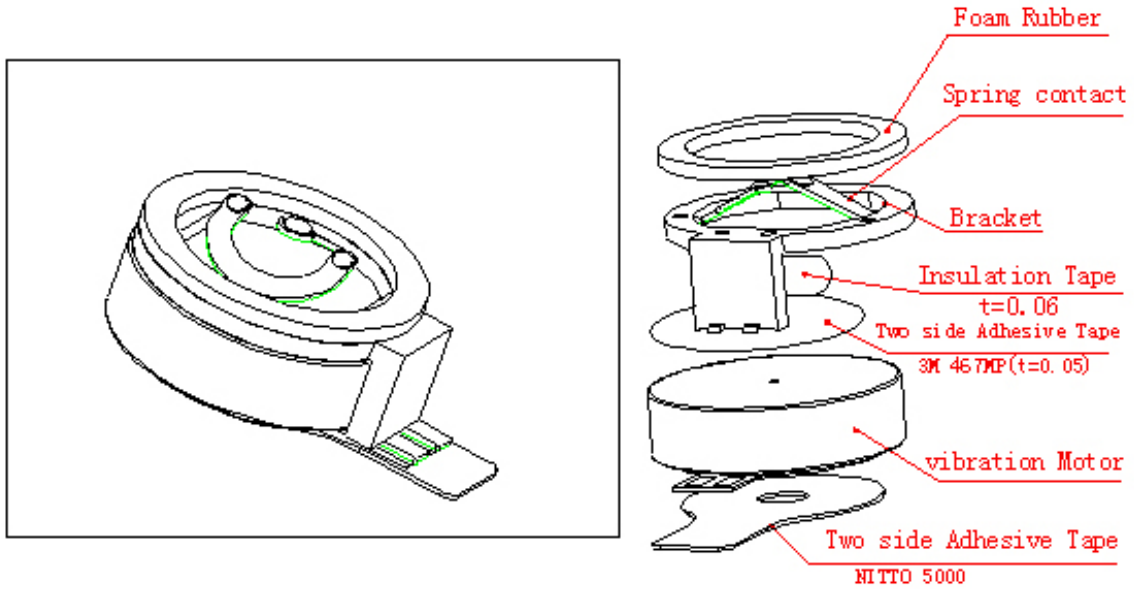


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### Electric Contact Area



### 1. Application

This specification applies to flat permanent-magnetic motors DC model **C1030B200F**.

### 2. Operating condition

Item	Specification
2-1	Rated voltage 3.0 V DC
2-2	Operating voltage 2.7~3.3 V DC
2-3	Rotation CW(clockwise) or CCW(contrary clockwise)
2-4	Operating environment -20°C ~ +60°C , Ordinary Humidity:65±20%RH
2-5	Storage environment -30°C ~ +70°C , Ordinary Humidity: 65± 20%RH

### 3. Test condition

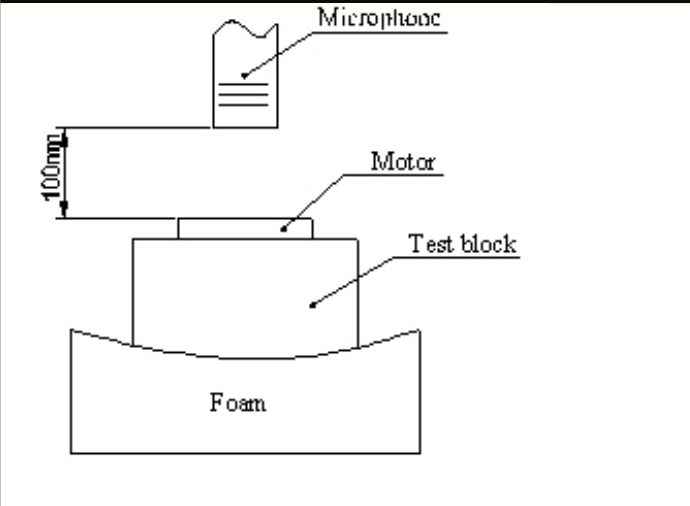
Item	Specification	Conditions
3-1	Temperature	25±3°C

3-2	Humidity	65±20% RH
3-3	Power supply	DC power supply 3.0V

#### 4. Electrical initial characteristics

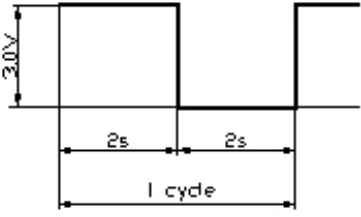
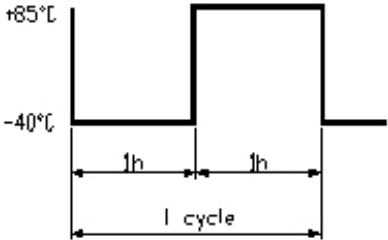
Item	Specification	Condition
4-1	Rated speed	9,000rpm Min
4-2	Rated current	100 mA Max
4-3	Starting current	120 mA Max
4-4	Starting voltage	2.3 V DC Max
4-5	Insulation resistance	10 MΩ Min
4-6	Terminal resistance	32Ω±15%(single posture) 62Ω±15%(compose posture)

#### 5. Mechanical characteristics

Item	Specification
5-1	Bracket deflection strength
5-2	Mechanical noise
	At rated voltage, back ground noise 28dB(A) Max
	 <p>The diagram illustrates the mechanical noise test setup. A microphone is positioned 100mm above a motor, which is mounted on a test block. The test block is placed on a layer of foam.</p>

#### 6. Reliability Tests

Item	Specification	Requirements

6-1	Lifetime	<p>Rated voltage: 3.0V DC                  Test mode: 2s On, 2s Off. as one cycle.                  Test cycle: 50,000 cycles</p> 	<p>After the test, motors shall be approved as specified in item 7-1.</p>
6-2	Low temperature exposure	<p>Temperature : -30°C                  Time : 96 h</p>	<p>After 4 hours exposure in ordinary temperature and humidity, motors shall be approved as specified as specified in item 7-2.</p>
6-3	High temperature exposure	<p>Temperature : +70°C                  Time : 96 h</p>	<p>After 4 hours exposure in ordinary temperature and humidity, motors shall be approved as specified as specified in item 7-2.</p>
6-4	High Humidity exposure	<p>Temperature : +40°C                  Humidity : 95%RH                  Exposure time : 96 h                  No condensation of moisture</p>	<p>After 4 hours exposure in ordinary temperature and humidity, Motors shall be approved as specified in item 7-2.</p>
6-5	Vibration	<p>Displacement: 1.5mm (p-p)                  Frequency: 10~55Hz                  Acceleration: 22m/s<sup>2</sup>                  Period: 10 Minutes log sweep (10~55~10Hz)                  Condition : Samples shall be applied for a period of 10 minutes in 3 axial directions.</p>	<p>After the test motors shall be approved as specified in item 7-2.</p>
6-6	Free fall	<p>Test mode: Set the motor to a fixture of approximately 100 g (include the motor) and drop onto the concrete floor.                  Height :1.5 m                  Direction : ±x, ±y, ±z                  Number of times: Each 3 times</p>	<p>After the test motors shall be approved as specified in item 7-2.</p>
6-7	Thermal shock	<p>Test mode: 1 hour at -40°C, 1 hour at +85°C, as one cycle. Transfer time between extreme temperatures: &lt; 5 min/Test cycle: 15 cycles</p> 	<p>After 4 hours exposure in ordinary temperature and humidity, Motors shall be approved as specified in item 7-2.</p>

