Micro Air Pump ZR370-02PM Specification

1. Scope of application
This specification is suitable for miniature air pump ZR370-2PM DC:4.5V DC:6V DC:12V DC:24V

2. Test conditions:
ambient temperature 20°C, relative humidity 65%RH is the standard
Test in the following environment: ambient temperature 5-45 °C, relative humidity 30-80% RH

2-2 Test orientation水平
2-3 Load: air 空氣 air

3. Performance:

<table>
<thead>
<tr>
<th>3-1 Rated voltage</th>
<th>DC:4.5V</th>
<th>DC:6.0V</th>
<th>DC:12V</th>
<th>DC:24V</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-2 Use voltage</td>
<td>DC4.0V~5.0V</td>
<td>DC5.2V~6.5V</td>
<td>DC10.8V~13.2V</td>
<td>DC21.6V~26.4V</td>
</tr>
<tr>
<td>3-3 Load current</td>
<td>&lt;500mA</td>
<td>&lt;420mA</td>
<td>&lt;280mA</td>
<td>&lt;120mA</td>
</tr>
</tbody>
</table>

Note: The above load current refers to the current value when the rated voltage supply air pump is used to inflate to the highest pressure in a 100ml container.

3-4 Noise: Put a 5cm thick sponge under the pump body and place it 30cm away from noise meter. The suction pressure is measured from 0 to -40kpa under rated voltage. Less than 65dB

3-5 Flow: ≥ 2.5 LPM

3-6 Maximum pressure: The maximum pressure value when the suction pressure is increased from 0 to stop when the rated voltage is used ≤ -55kpa

3-7 Operating temperature range:
The air pump works well between temperature 5°C to 50°C and humidity 30%RH to 80%RH.

3-8 Storage temperature range:
Keep the air pump in good condition between temperature -20°C to 60°C and humidity 30%RH to 85%RH.

4. Reliability test:

4-1 Low temperature characteristics:
After placing it at -20°C for 72 hours, take it out and place it at room temperature (20°C±5°C) for 2 hours. Re-test checks 3-3 3-4 3-5 3-6
The test results are normal.

4-2 High temperature characteristics:
After being placed at 60°C for 72 hours, take it out and place it at room temperature (20°C±5°C) for 2 hours. Re-test checks 3-3 3-4 3-5 3-6
The test results are normal.

4-3 High temperature and high humidity:
Leave out for 72 hours in an environment with a temperature of 60°C and a humidity of 80-85% and place it at room temperature (20°C±5°C) for 2 hours. Re-test checks 3-3 3-4 3-5 3-6
The test results are normal.

4-4 Low-temperature environment test:
After 5 hours at 5°C, there is no abnormality in the test at this temperature.
4-5 High temperature environment test:
There is no abnormality in the test at this temperature after 5 hours at 50℃.

4-6 Life test:
In a 500ml container, open for 10 seconds and stop for 5 seconds as a cycle test. After 30,000, follow the test requirements of 3-3 3-4 3-5 3-6 Pressure within the attenuation range of 15%.

5. Other

5-1 Drop test: Use standard packaging methods and place them on the concrete floor from the front, side, and corners from a height of 50cm. Its performance and structure are not abnormal in free fall.

5-2 Abnormal test:
There is no burning or smoke after continuous power-on for 8 hours at the maximum voltage.

5-3 Motor terminal:
There is no abnormality with 0.3 kg weight and terminal load. The terminal must be soldered at a soldering iron temperature of 380℃, and the operation must be completed within 2S.

5-4 Appearance: The product must not be damaged or dirty.