Micro Air Pump ZR320-02PM Specification

1. Scope of application
This specification is suitable for miniature air pump ZR320-2PM DC:3.0V DC:4.5V DC:6V DC:12V.

2. Test conditions:
2-1 Test environment temperature and humidity:
ambient temperature 20℃, relative humidity 65%RH is the standard
Test in the following environment: ambient temperature 5-45 ℃, relative humidity 30-80% RH
2-2 Test orientation: horizontal
2-3 load: air

3. Performance:

<table>
<thead>
<tr>
<th>3-1</th>
<th>Rated voltage</th>
<th>DC:3.0V</th>
<th>DC:4.5V</th>
<th>DC:6V</th>
<th>DC:12V</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-2</td>
<td>Use voltage</td>
<td>DC2.2V~3.7V</td>
<td>DC3.0V~4.5V</td>
<td>DC5.2V~6.5V</td>
<td>DC10.8V~13.2V</td>
</tr>
<tr>
<td>3-3</td>
<td>Load current</td>
<td>&lt; 650mA</td>
<td>&lt; 580mA</td>
<td>&lt; 500mA</td>
<td>&lt; 280mA</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 60dB
3-5 Flow: ≥1.8LPM
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℃ to 50℃ and humidity 30%RH to 80%RH.
3-8 Storage temperature range:
Keep the air pump in good condition between temperature -20℃ to 60℃
and humidity 30%RH to 85%RH.

4. Reliability test:
4-1 Low temperature characteristics:
After placing it at -20℃ for 72 hours, take it out and place it at room temperature (20℃±5℃) 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℃ for 72 hours, take it out and place it at room temperature (20℃±5℃) 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℃ and a humidity of 80-85%
and place it at room temperature (20℃±5℃) 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℃, 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.