

(MODEL) :	MB2025C DC3.7V	
(No.) :	PRODUCT SPECIFICATION	

1、Scope:

2、Working Conditions:

No.	ItemName	Specifications
2. 1	Rated Voltage	DC3.7 V
2. 2	Direction of rotation	Direction CCW when viewed from output shaft
2. 3	Operating Voltage Range	DC2.0 V～DC 4.5V
2. 4	Operating Temperature Range	-40℃～+80℃， At normal humidity
2. 5	Storage Humidity Range	-40℃～+85℃， At normal humidity
2. 6	Operating Position	Output shaft all direction
2. 7	Test temperature & humidity	+5℃ ～ +35℃,40% ～ 85%RH.According to JIS standard test conditions if in doubt.(+18 ℃ ～ +22℃,60%～70%RH).
2. 8	Power Source	DC regulated power supply voltage ripple is less than 0.3%.

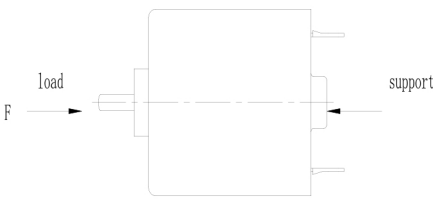
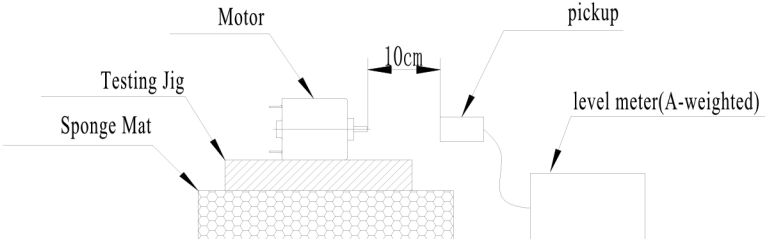
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3、Electrical Characteristics:

/No.	ItemName	Test conditions	Specifications	
3. 1	Rated Load Speed	At rated voltage and rated load	7300±10%	R7.5*3.6-2
3. 2	Kated Load Current	At rated voltage and rated load	≤900mA	
3. 3	No load Speed	At rated voltage and no load	/	
3. 4	No load Current	At rated voltage and no load	/	
3. 5	Stall Torque	At rated voltage	/	
3. 6	Stall Current	At rated voltage	≤3500mA	
3. 7	Starting Voltage	Non-loaded	≤1.0V	
3. 8	Insulation Resistance	DC 100 V voltage applied between motor housing and terminal.	≥1MΩ	
3. 9	Ac withstand voltage	Add 100V/2S/between motor housing and terminal	≤2mA	

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4、Mechanical & Functional Characteristics:

/No.	ItemName	Test conditions	Specifications
4. 1	External Appearance	Visual	Appropriate for usage
4. 2	Boundary Dimension	Refer to construction drawing	
4. 3	Axial Clearance	Measured by dial gauge	0.05～0.35mm
4. 4	Shaft T.I.R	At the point of 3.0mm from end of shaft by dial gauge.	Refer to construction drawing
4. 5	Weight	Poidometer	Approx 30.0g
4. 6	Maximum Axial Load	Direction of static load and support of load as shown below. 	≤5kgf
4. 7	Mechanical noise	Rated voltage,The ambient noise is less than or equal to 26dB (A).Specifications: ≤60dB(A) 	

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5、Reliability Test:

No.	ItemName	Test conditions	Specifications											
5. 1	Vibration Test	Standard packing condition,the motor is at full amplitude: 1.5mm / 50Hz,X, Y, Z three directions each 1 hour.	① Rated load speed change relative to the initial value within ±30% . ② Rated load current change relative to the initial value within ±30% .											
5. 2	Drop Test	The Motor in the smallest bundle state falls from 50cm height to 10cm thickness on the board by one turn on six sides of the packing box												
5. 3	Storage Test	Place the motor in the following table environment, And then in the normal temperature and humidity environment placed 24H and then tested. Each test is independent of each other. <table><tr><td></td><td>environment</td><td>Place time</td></tr><tr><td>1</td><td>+80℃ , 20%~65%RH</td><td>72H</td></tr><tr><td>2</td><td>-40℃</td><td>72H</td></tr><tr><td>3</td><td>+80℃ , 90%RH</td><td>72H</td></tr></table>			environment	Place time	1	+80℃ , 20%~65%RH	72H	2	-40℃	72H	3	+80℃ , 90%RH
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No.	ItemName	Test conditions	Specifications
5.4	Life Test	Undetermined	The rated load current changes less than 30% of the initial value; The rated load speed change less than 30% of the initial value.

6、Precautions:

- 6.1 Motor terminal welding should be controlled at 350 °C, 2 seconds to complete, to avoid damage to other parts.
- 6.2 When assembling the motor using an adhesive, avoid spillage into the bearing or other place, causing the motor to run poorly or stuck.
- 6.3 When the motor is screwed, the appropriate screw must be selected, torque $\leq 1.0\text{kgf} \cdot \text{cm}$, to avoid thread damage or affect the motor operation.
- 6.4 Products of normal temperature and humidity under the condition of not out of the box can not be stored for more than 6 months, should avoid storing in high temperature and high humidity and corrosive gases in the environment.

