



KOTL

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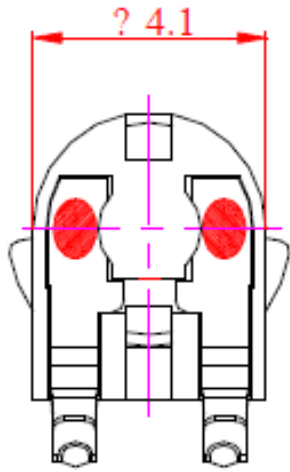
Part No. Z4FH2B8009501

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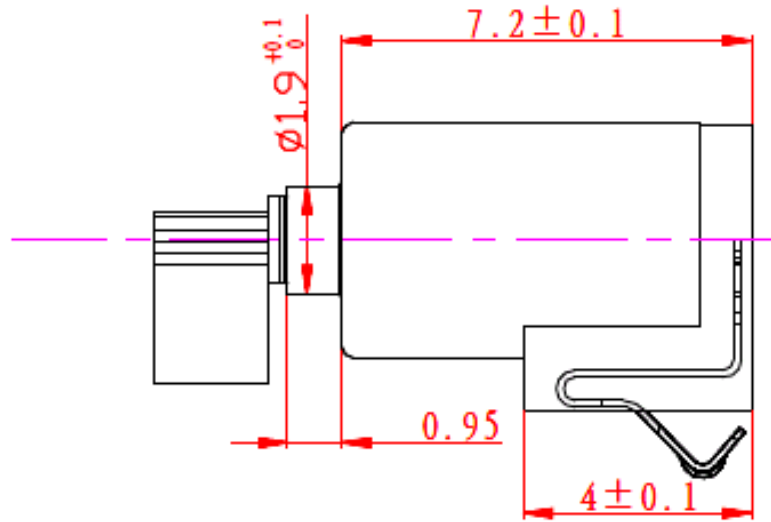


PDF Format

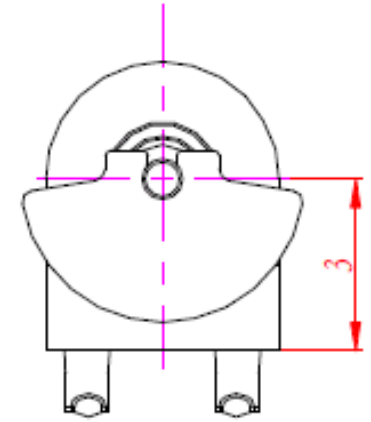
1. Operating Voltage: 3V
2. Starting Current: 130mA(max)
3. Load Current: 110mA(max)
4. Starting Load Voltage: 2.6V
5. Load Speed: 13000 ± 2500RPM
6. 未注线性公差: ±0.1mm



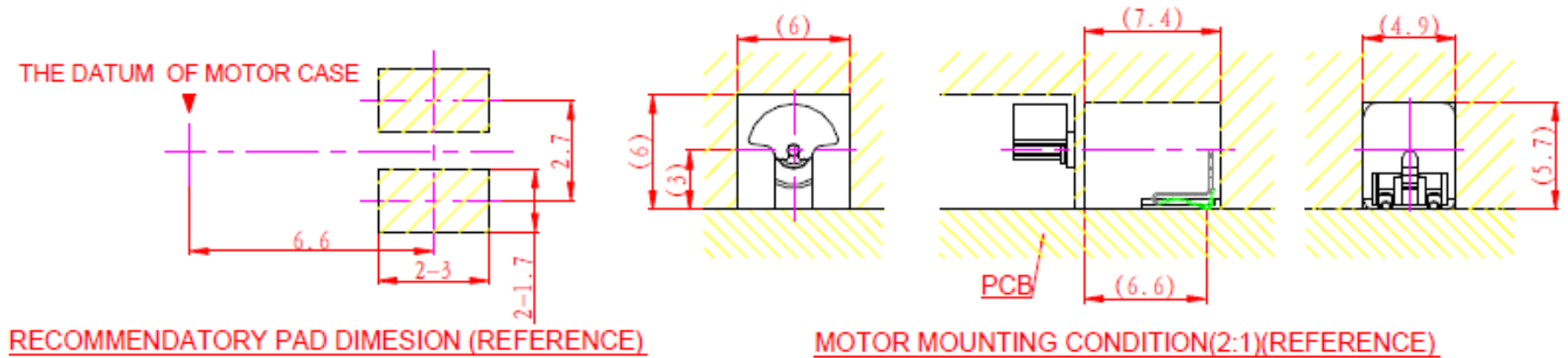
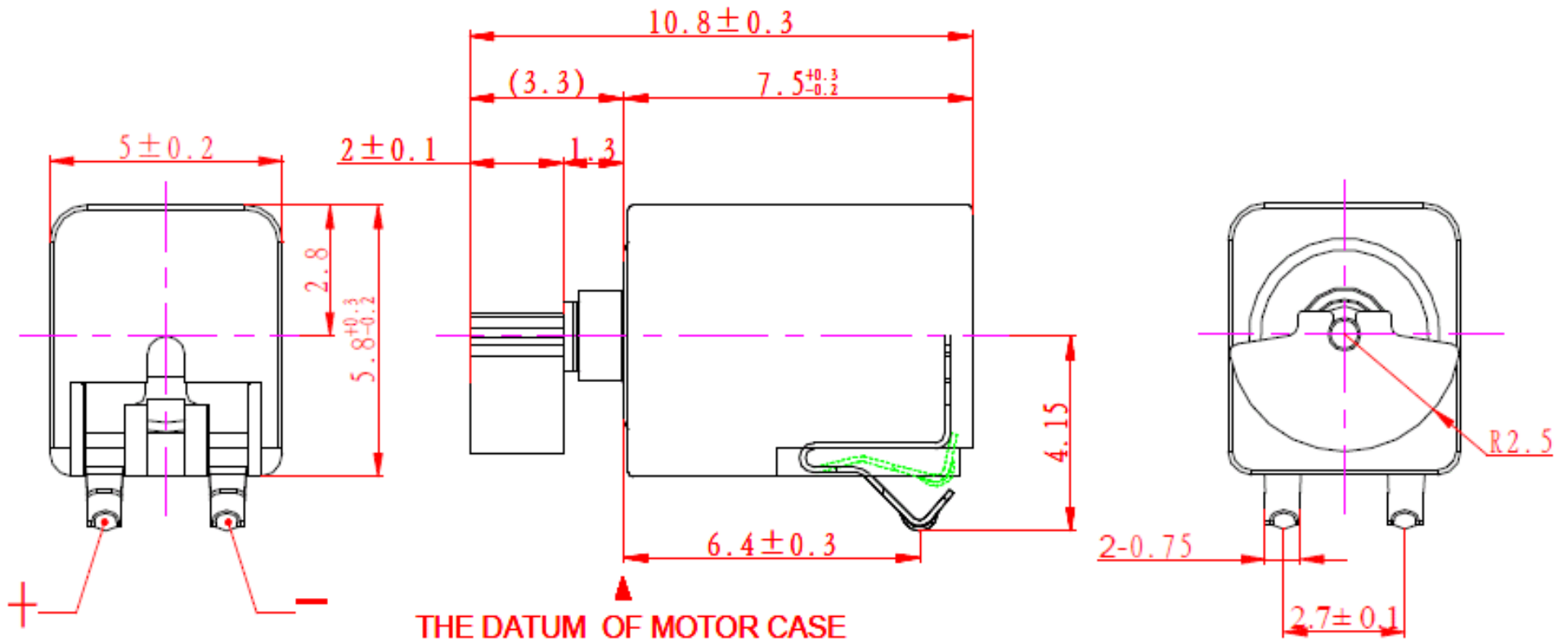
WITHOUT HOLDER



WITHOUT HOLDER



WITHOUT HOLDER



1. General

This specification applies to cylindrical permanent-magnetic motors DC model **Z4FH2B8009501**.

2. Operating condition

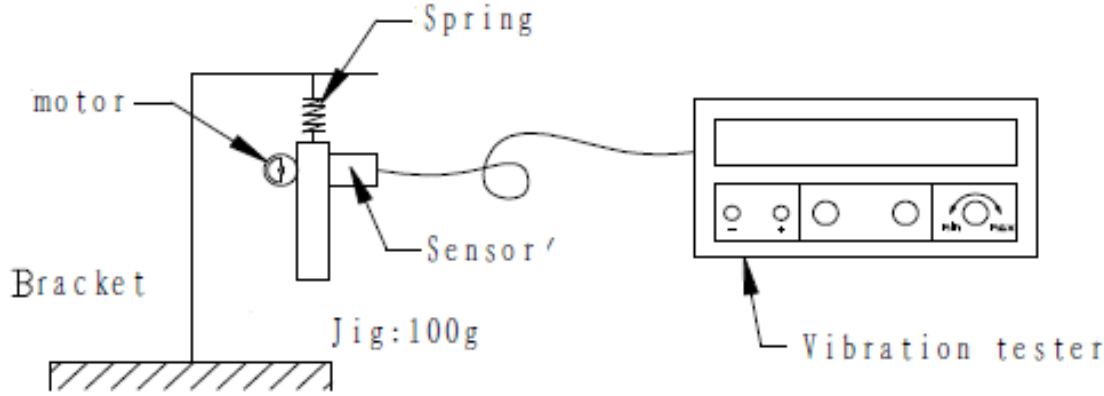
Item		Specification	
2-1	Rated voltage	3.0 V DC	
2-2	Rated load	Vibration weight	As specified in outline drawing
2-3	Rotation	CW (clockwise)	
2-4	Motor position	All position	
2-5	Operating voltage	2.6~ 3.6V DC	
2-6	Operating environment	-30°C ~ +70°C , Ordinary Humidity	No condensation of moisture
2-7	Storage environment	-40°C ~ +85°C , Ordinary Humidity	No condensation of moisture

3. Measuring condition

Item		Specification	Condition remark
3-1	Temperature	20±2°C	
3-2	Humidity	45%~75% RH	
3-3	Motor position	Motor shaft horizontal	Lock the motor in a test fixture

All data are based on the measurement under the temperature of 20°C and humidity 65%RH. However, the ranges of temperature 5~35°C and humidity 45~85%RH are to be applicable as long as no problems.

4. Mechanical specification

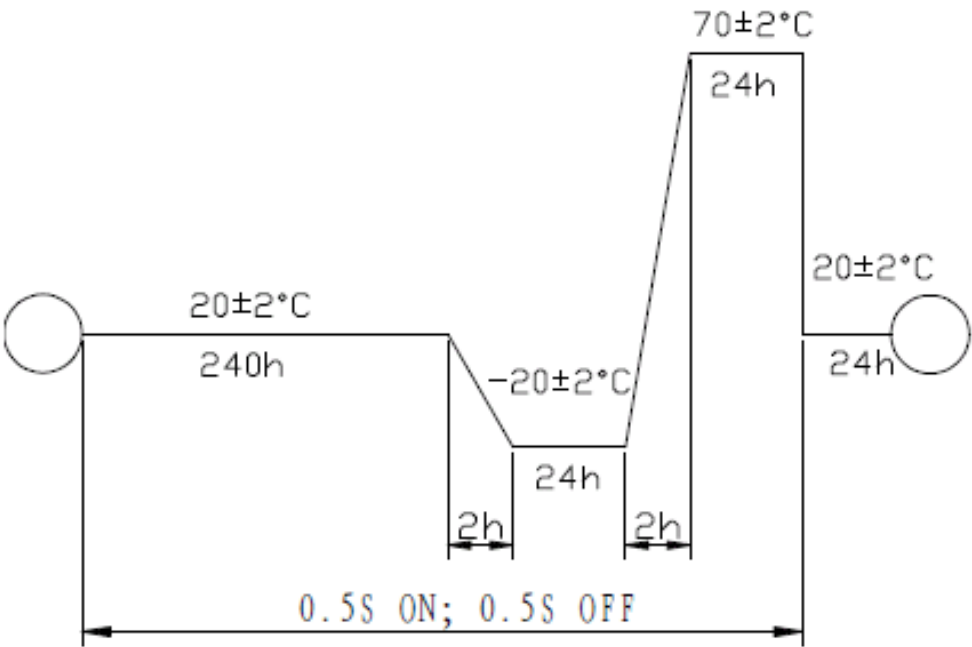
Item	Specification	Condition remark
4-1	Configuration	As specified in outline drawing
4-2	Appearance	There shall be no evidence of mechanical damage and shall not have inadequate corrosion and so on
4-3	Shaft end play	0.05mm~0.2mm
4-4	Holding strength of vibration weight	55N (5.6 kg f) Min
4-5	Acceleration	>0.7 G
 <p>The diagram illustrates the mechanical testing setup. A motor is mounted on a bracket, which is supported by a jig weighing 100g. A spring is attached to the motor's shaft, and a sensor is positioned to measure the vibration. The sensor is connected to a vibration tester, which has a display screen and several control buttons.</p>		
		Weight of jig : 100g

5. Performance and characteristics

Item	Specification	Condition remark
5-1	Rated Speed	13000± 2500rpm
5-2	Rated current	110 mA Max
		At rated voltage and rated load (vibrator weight).

5-3	Stall current	130 mA Max	At rated voltage
5-4	Starting voltage	2.6V DC Max	At rated load (vibration weight) any position of rotor.
5-5	Insulation	1M Ω Min	At DC 100V between lead wire and case.
5-6	Terminal resistance	26 Ω ($\pm 20\%$)	At $20 \pm 2^\circ \text{C}$
5-7	Mechanical noise	45 dB(A)Max	
<p>At rated voltage, and rated load (vibration weight). Back ground noise 28dB(A) Max</p> <p>Measuring: B&k Weight of jig: 700g</p> <p>Fig. A Fig. B Fig. C</p>			

6. Reliability

Item		Specification	Judgment
6-1	Life	 <p>Temperature profile diagram for Life test. The profile shows a sequence of temperature exposures: 20±2°C for 240h, a ramp down to -20±2°C over 2h, a 24h dwell at -20±2°C, a ramp up to 70±2°C over 2h, a 24h dwell at 70±2°C, and a final 24h dwell at 20±2°C. The entire cycle is controlled by a 0.5S ON; 0.5S OFF timer.</p>	After 2 hours exposure in ordinary temperature and humidity, motors shall be approved as specified in item 7-1.
6-2	Storage humidity temperature test	<p>Temperature : +85±2°C ; Time: 300h Humidity : Original Humidity</p> <p>Temperature : +40±2°C ; Time: 300h Humidity : Original Humidity</p> <p>Temperature : +40±2°C ; Time: 300h Humidity : 90%RH</p>	After 2 hours exposure in ordinary temperature and humidity, motors shall be approved as specified in item 7-2.
6-3	Vibration	<p>Displacement : 1.5mm (p-p) Frequency: 10~55Hz Period: 20 Minutes log sweep (10~55~10Hz)</p> <p>Direction : x, y, z Time : 2h Each 2 hours</p>	After 4 hours exposure in ordinary temperature and humidity, motors shall be approved as specified in item 7-2.

8. Matters to be paid attention to when using motor

8-1 (Please lay the motors carefully in transportation to avoid any serious damage to the motor body or its electric function because of collision.)

8-2 (Please use the motor according to the instruction of this product specification, or else, it will be bad for motor's life.)

8-3 (Make arrangement to limit the storage period to 6 months or less. Please do not store motor in high temperature. Low temperature. high humidity environment. Condensation of atmosphere must be avoided in motor usage or opening the packaging of the motor.)

8-4 (For proper operation. storage and operating environment must not contain corrosive gases. For example H₂S. SO₂. NO₂. Cl₂. etc. In addition storage environment must not have materials that emit corrosive gases especially from silicon. cyanic. formalin and phenol group. In the mechanism or the set. existence of corrosive gases may cause no rotation in motor.)

8-5 (Please don't stall the shaft for a long time after powering, and not to touch the weight when motor is rotating.)

8-6 (There should be no sundries (such as grain, fibre, hair, small tape, glue etc.) in the shaft end play.)

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