



JinLong Machinery
VibratorMotor.com

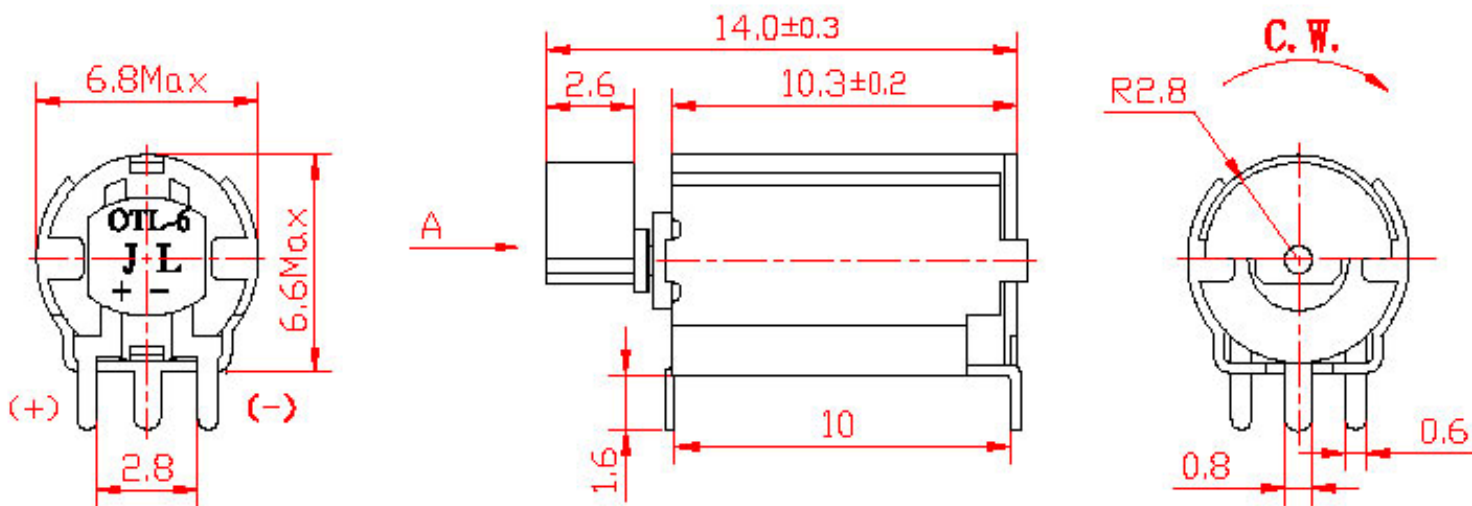
KOTL

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Part No. Z6SCOB0150081 (Old Part Number : 6SH-1508B)

Technical Requirements:

1. Rated voltage: 3.0V
2. Rated current: 70mA Max
3. Rated speed: 18000 ± 2000rpm
4. Stall current: 105mA Max
5. Terminal resistance: 35Ω(+20%)
6. Starting voltage: 1.7V Max
7. Shaft end play: 0.1~0.3mm
8. Overall length is measured after counterweight being pressed against body in direction A. (Shaft end play is not included.)
9. Unmarked tolerance: ±0.1mm



1. General scope

1-1 The specifications apply to the coreless cylindrical permanent magnetic micro vibration motor DC model **Z6SCOB0150081**.

2. Operating conditions

Items	Specifications	Condition & Remarks
2-1	Rated voltage	3.0V DC
2-2	Rated load	Vibration weight
2-3	Rotation	CW. CCW(clockwise)
2-4	Motor position	All positions

2-5	Operating voltage	2.2 ~ 3.6V DC	
2-6	Operating conditions	-30 ~ 70°C, Ordinary humidity : 65±20%RH	No condensation of moisture.
2-7	Storage conditions	-40 ~ 80°C, Ordinary humidity : 65±20%RH	No condensation of moisture.

3. Measuring conditions

Items	Specifications	Condition & Remarks
3-1	Temperature	20±2°C
3-2	Humidity	(63 ~ 67%) RH
3-3	Motor position	Motor shaft horizontal Lock the motor in a test fixture.

The measurement at 20 & 65%RH is standard. If the judgment is not questionable, recognize measurement at 5 to 35 & relative humidity 45% to 85%. Direction of motor is shaft horizontal.

4. Mechanical specifications

Items	Specifications	Condition & Remarks
4-1	Configuration	As specified in outline drawing Outline drawing No: Z6SC0B0150081 .
4-2	Appearance	There shall be no evidence of mechanical damage and shall not have inadequate corrosion and so on. Visual examination: (allowable extent is based on boundary sample)
4-3	Shaft end play	0.1 ~ 0.3mm
4-4	Holding strength of vibration weight	49N (5kgf) Min

5. Performance and characteristics

Items	Specifications	Condition & Remarks
5-1	Rated speed	10000±2000rpm At rated voltage and rated load (Counterweight).
5-2	Rated current	70mA max
5-3	Stall current	105mA max At rated voltage.

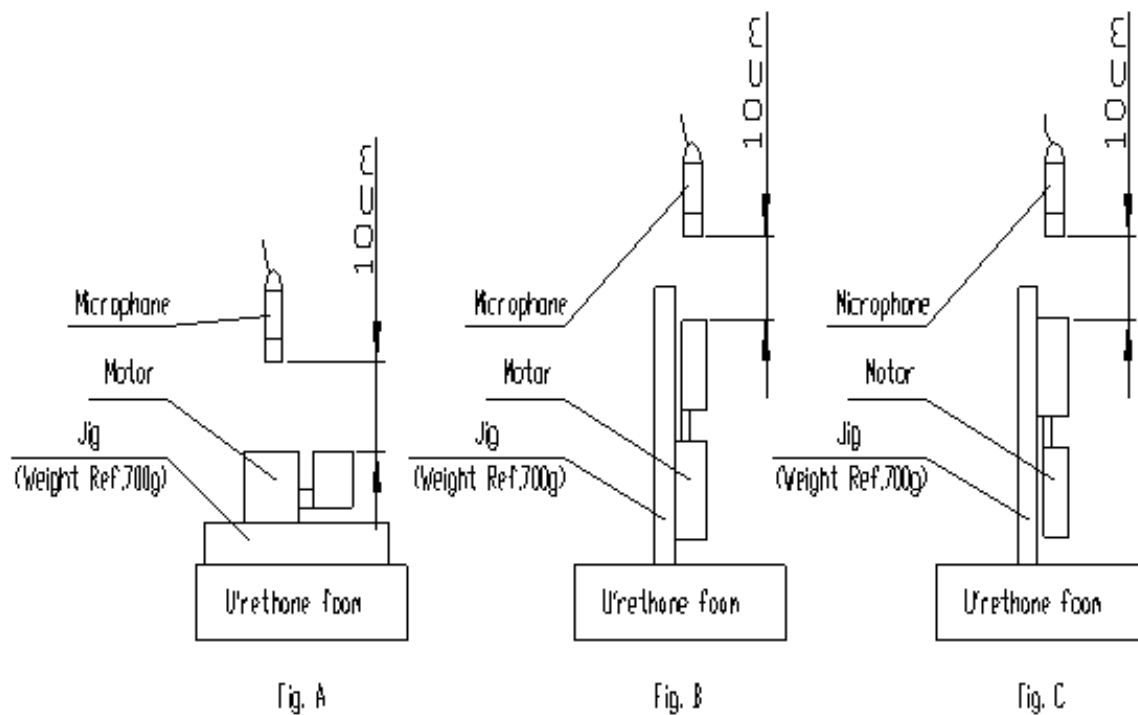
5-4	Starting voltage	0.75V DC max	At rated load (Counterweight) any position of rotor.
5-5	Insulation resistance	1M• min	At DC 100V between Terminal and case.
5-6	Terminal resistance	35• approx.	At 20°C.
	Mechanical noise	50db (A) max	

At rated voltage and rated load (Counterweight).

Background noise: 28db (A) max.

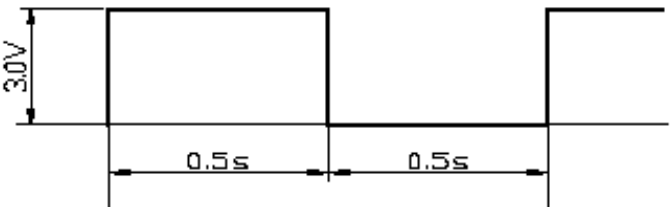
Measuring instruments: B & K.

The weight of jig: 700g.

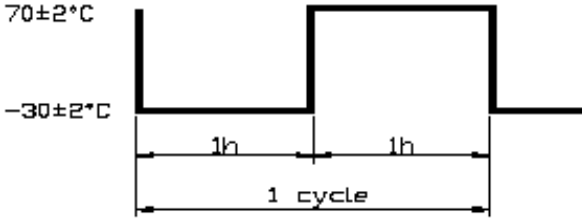


5-7

6. Reliability Test

6-1	Life test		After 2 hours exposure in ordinary temperature and humidity, Motors shall be approved as specified in item 7-1.												
		<table border="1"> <thead> <tr> <th>Position</th> <th>Volt</th> <th>Load</th> <th>Temp</th> <th>Humi</th> <th>Life</th> </tr> </thead> <tbody> <tr> <td>Horizon</td> <td>Rated</td> <td>Weight</td> <td>20°C</td> <td>65%</td> <td>200,000 Cycles</td> </tr> </tbody> </table>	Position	Volt	Load	Temp	Humi	Life	Horizon	Rated	Weight	20°C	65%	200,000 Cycles	
Position	Volt	Load	Temp	Humi	Life										
Horizon	Rated	Weight	20°C	65%	200,000 Cycles										
6-2	Low temp exposure	Temperature: $-40 \pm 2^\circ\text{C}$ Time: 96hrs													
6-3	High temp exposure	Temperature: $60 \pm 2^\circ\text{C}$ Time: 96hrs	After 2 hours exposure in ordinary												
6-4	Humidity exposure	Temperature: $40 \pm 2^\circ\text{C}$ Humidity: 90 ~ 95% RH Exposure time: 96hrs No condensation of moisture	Motors shall be approved as specified in item 7-2.												

6-5	Vibration test	<p>Displacement: 1.5mm (p-p) Frequency: 10 ~ 55Hz Period: 1 Mins (10~55~ 10Hz) 20 Minutes log sweep (10~55~ 10Hz) Direction: x, y, z Number of Time: Twice 2 each</p>	<p>After the test motors shall be approved as specified in item 7-2.</p>
6-6	Free fall	<p>Set the motor to the approximately 75g (include the motor) weight of block drop the motor on the concrete floor. Height: 1.5 meters Direction: ±x, ±y, ±z Times: Twice 2 each</p>	<p>After the test motors shall be approved as specified in item 7-2.</p>

6-7	Heat stock test	<p>Test cycle : 20 cycles</p> 	<p>After 2 hours exposure in ordinary temperature and humidity, Motors shall be approved as specified in item 7-2.</p>
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7. Requirements

Items	Requirements	
7-1	Table A	<p>1) Rated speed: Initial data -30% min./ +60% max. 2) Rated current: Initial data ±30% max 3) Starting voltage: 2.0V DC max</p>

7-2	Table B	1) Rated speed:	Initial data -30% min./ +30% max.
		2) Rated current:	Initial data $\pm 30\%$ max
		3) Starting voltage:	2.0V DC max

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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