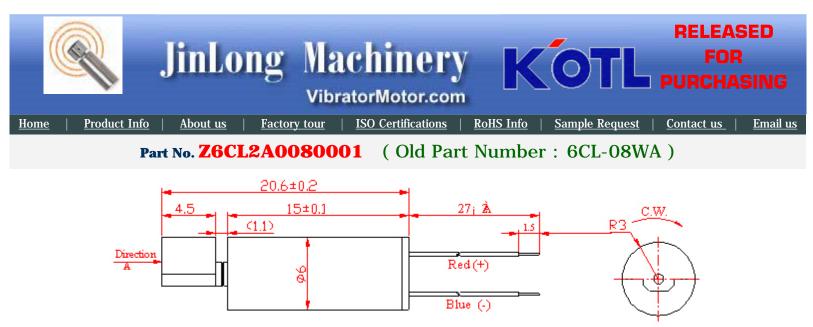
Vibration Motor Vibration Motors Vibrator Motors KOTL



1. General scope

1-1 The specifications apply to the coreless cylindrical permanent magnetic micro vibration motor DC model Z6CL2A0080001.

2. Operating conditions

Items		Specifications	Condition & Remarks	
2-1	Rated voltage	1.3V DC		
2-2	Rated load	Counterweight	As specified in the outline drawing.	
2-3	Rated speed	7500±2000rpm		
2-4	Rotation	C.W. (clockwise)		
2-5	Motor position	All positions		
2-6	Operating voltage	0.9 ~ 1.6V DC		
2-7	Operating conditions	-30 ~ 70°C, ordinary humidity	No condensation of moisture.	
2-8	Storage conditions	-40 ~ 80°C, ordinary humidity	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.

All data are based on the measuring conditions: Temperature, 20° C and Humidity, 65% RH. However, the ranges of temperature $5\sim35^{\circ}$ C and humidity $45\sim85$ %RH are to be applicable as long as no problems.

Vibration Motor Vibration Motors Vibrator Motors KOTL

4. Mechanical specifications

Items	Specifications	Condition & Remarks
4-1 Configuration	As specified in outline drawing	Outline drawing No: Z6CL2A0080001.
4-2Appearance	There shall be no evidence of mechanical damage and shall not have inadequate corrosion, etc.	Visual examination: Inspection carried out on samples.
4-3Shaft end play	0.1 ~ 0.3mm	
4-4Weight of motor	2.86g approx.	
4-5Holding strength of vibration weight	49N (5kgf)	

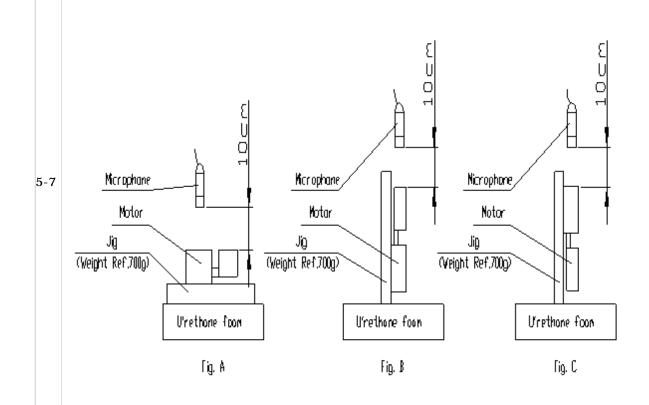
5. Performance and characteristics

Items		Specifications	ons Condition & Remarks	
5-1	Rated speed	7500±2000rpm	At noted value as and noted land (eithertion unight)	
5-2	Rated current	80mA max	At rated voltage and rated load (vibration weight).	
5-3	Stall current	145mA max	At rated voltage.	
5-4	Starting voltage	0.75V DC max	At rated load (vibration weight) any position of rotor.	
5-5	Insulation resistance	1M• min	At DC 100V between the lead wires and motor body.	
5-6	Terminal resistance	11• approx.	At 20°C.	
	Mechanical noise	50db (A) max		
	At rated voltage and ra		ight).	

Back ground noise 28 db (A) max.

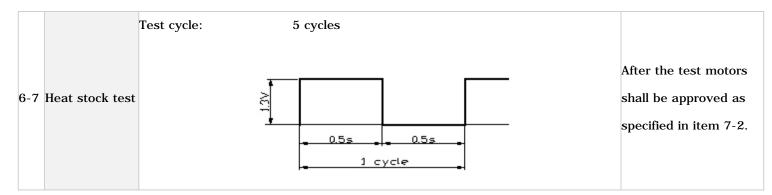
Measuring instruments: B & K

Weight of jig: 700 g



6. Reliability Test

Items		Standard test conditions	Condition & Remarks
6-1	Life test	PositionVoltage LoadTemperature Humidity LifeHorizontal RatedCounter 20 °C65 %200,000 cycles	After 2 hours exposure in ordinary Motors shall be approved as specified in item 7-1.
6-2	Low temperature	Temperature: -40±2°C Time: 96hrs	After 2 hours exposure in ordinary Motors shall be approved as specified in item 7-2.
6-3	High temperature	Temperature: 85±2°C Time: 96hrs	
6-4	High humidity exposure test	Temperature: 40±2°C Humidity: 90 ~ 95% RH Exposure time: 96hrs Dry time: 4hrs No condensation of moisture	
6-5	Vibration test	Displacement: 1.5mm (p-p) Frequency: 10 ~ 55Hz Period: 20 Mins log sweep (10 ~ 55 ~ 10Hz) Direction: x, y, z Time: Every 2 hours	After the test motors shall be approved as specified in item 7-2.
6-6	Free fall	Test state: Set the motor to the approximately 75 g (include the motor) weight of block drop the motor on the concrete floor. Height: 1.5 m Direction: $\pm x$, $\pm y$, $\pm z$ Number of times: Twice each	After the test motors shall be approved as specified in item 7-2.



7. Post environmental

Items		Requirements
7-1	Table A	 Rated speed: Initial data -30 % min.; Initial data +60 % max. Rated current: Initial data ±30 % max. Insulation resistance: 1 MΩ min. Starting voltage: 1.0 V DC max. Current waveform: Normal
7-2	Table B	 Rated speed: Initial data -30 % min.; Initial data +60 % max. Rated current: Initial data ±30 % max. Starting voltage: 1.0 V DC max.

8. Matters to be paid attention to when using motor

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

8-2 Please do not leave the motors in the environment of high temperature, high humidity and gas that will cause rust and corrosion. Please don't store the motors for over 6 months.

8-3 Please do not lock the motor shaft when the electric power is supplied.

8-4 Please do not touch the weights when motor is rotating.

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 ISO Certifications
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