



Model No.
NFP-WS0520

1. Application

This article regulates the relevant technical requirements and test methods of small coin vibration motor model NFP-WS0520 series.

2. Operating Conditions

MODEL	SPECIFICATION
Rated voltage	3.0V DC
Operating voltage	2.7~3.3V DC
Rotating direction	CW(clockwise)
Operating environment	-20~+60°C, 10~90%RH
Storage environment	-30~+70°C, 10~90%RH

3. Testing Conditions

MODEL	SPECIFICATION
Temperature	25±3°C
Humidity	65±20% RH
Air Pressure	1013±40 hPa
Power	Constant DC Current

4. Initial Electrical Characteristics

MODEL	SPECIFICATION	CONDITION
Rated speed	12500±4500 rpm	At rated voltage and rated load.
Rated current	90 mA Max	
Starting current	175mA Max	Start at the minimum starting voltage, the test need to pay attention to adjust the applicable voltage after the need for a power cut to reset the rotor. Continuous upward adjustment from low to high voltage is not allowed.
Starting voltage	2.5V DC Max	
Insulation resistance	10MΩ Min	At DC 100V between lead wire and case.

5. Standard Measuring Method



振动量测试仪
Vibration meter

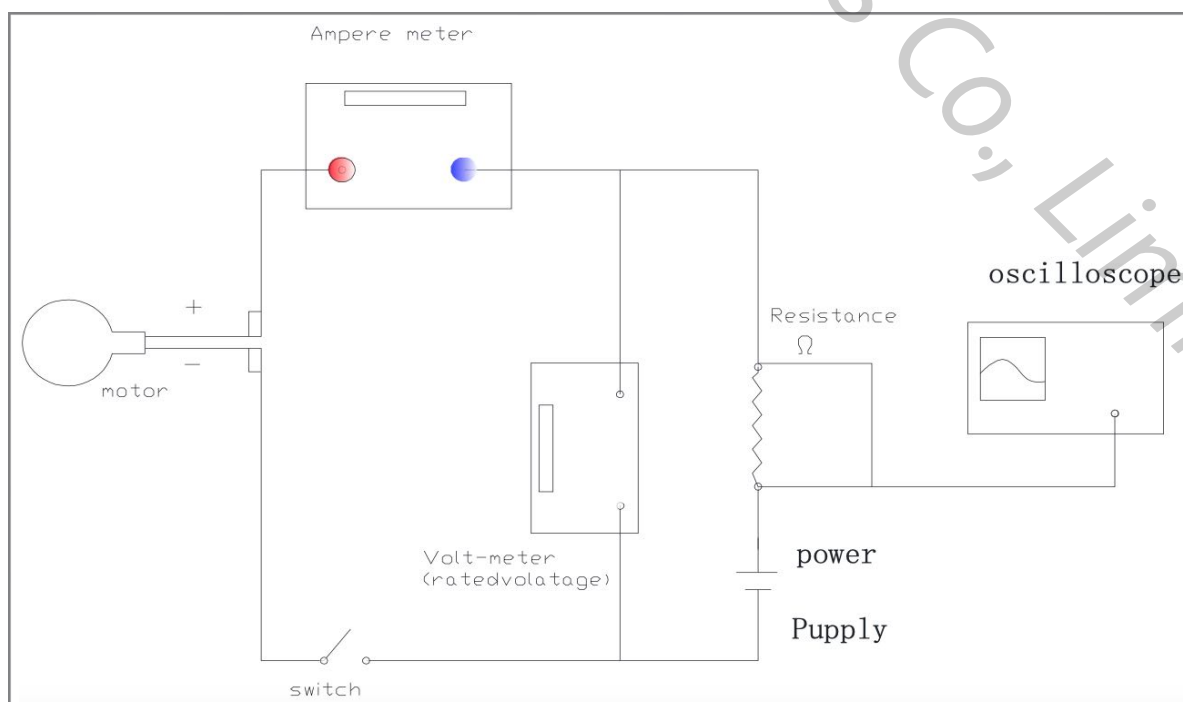
马达安放装置
Test Jig (for
Clamping
he Motor in Place)

马达综合测试仪
Multi-functional
Test Mete

波形脉冲显示
Oscilloscope

噪音测试仪
Noise Test Meter

6. Measuring Method & Circuit Map



7. Caution in Use

1. You might encounter functional and life problems if you use it different from the standard. Please be careful of the range of use, like voltage etc.
2. Motor use, be sure to draw on the lead wire (+ Pole) terminal connected to the power supply (+ Pole) ,(- pole) terminal connected to the power supply (- pole) after use, otherwise the MOTOR will burn out.
3. Please be careful of that the storage in high temperature and humidity and noxious gas might cause hindrances to motors.
4. Drive IC can be damaged by power plug short due to careless test. In order to prevent damage of Driver IC, please connect 2 μ F condenser to motor in a row(parallel connection) with power plug(+/-).
5. Please hold the case part lightly as much as you can when you use motors.
6. Please do not use above DC 3.8V for preventing Driver IC.
7. Please avoid being near and contacting magnetic materials like magnet which might encounter functional problems.
8. If some materials(metal, powder) and dust become mixing condition in the motor it might cause feature declines by occurring rotation faulty and abnormal sound so please be clean the working environment and careful when you deal with the motor.
9. Please be careful of not soaking in liquid like water or alcohol.
- 10.Packing method: Refer to packing drawing. But, it could be changed on user's demand.
- 11.It can't guarantee if the motors are used out of the range of fulfilling this specification.
- 12.Any further conditions or change of this APPROVAL REQUEST take effect by mutual consent.
- 13.The motor must be assembled to the terminal device within six months of shipping date. If the motor has not been used for more than six months, it is recommended to activate the motor with electricity (powered on for 3-5 seconds) before use to achieve the best vibration effect.