

# Miniature Geared Stepper Motor

This miniature stepper motor has an integrated PCB for control and connection. The geared output shaft allows for increased torque and precise positioning.



## Product Overview

### VSM06 Series Stepper Motor

The VSM06 is a miniature geared stepper motor designed for precision motion control in compact environments. Featuring an integrated PCB and a geared output shaft, it delivers consistent torque and reliable performance for robotics and automation applications. This unit supports 2-2 drive mode and utilizes a standardized molex connection for seamless system integration.

## Performance Metrics

### Performance Highlights

**1300 PPS**

Max Self-Start Frequency

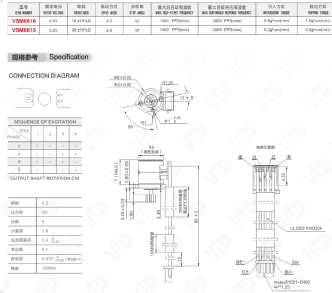
**2500 PPS**

Max Continuous Frequency

**18 °**

Step Angle

## Technical Specifications



Dimensional drawing and connection schematic for VSM06 series.

## Electrical & Physical Specs

Attribute	VSM0616	VSM0615
Rated Voltage	3.3V	3.3V
Resistance	12 ±10% <sup>Ⓞ</sup>	30 ±10% <sup>Ⓞ</sup>
Introducing Torque	0.8gf-cm(min)	0.3gf-cm(min)
Tripping Torque	1.0gf-cm(min)	0.5gf-cm(min)

## Gearbox Details

- Module: 0.2
- Pressure Angle: 20°
- Teeth Count: 9
- Dividing Circle: 1.8
- Tooth Top Circle Diameter: 2.4 -0.05
- Precision: JGMA4

## Connectivity

### Wiring & Interface

molex51021-0400, 4P\*1.25 Connector, UL3302 AWG30 wiring