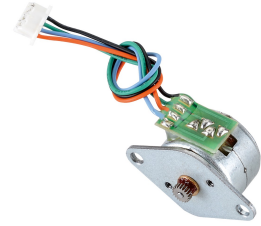


Compact Stepper Motor

This compact stepper motor is designed for precision positioning applications. It features pre-drilled holes for secure installation and color-coded wires for simplified wiring.



Product Overview

Compact Precision Stepper Motor

The VSM15 series is a high-precision compact stepper motor designed for applications requiring reliable positioning. Available in 5.0V and 12.0V models, these motors feature a 2-2 drive mode and an 18-degree step angle. The compact 11mm height profile and integrated multi-pin connector design facilitate easy integration into space-constrained professional equipment.

Technical Specifications

系列	额定电压	额定电流	额定功率	额定速度	最大静转矩	最大动态转矩	最大启动转矩	最大响应频率	最大自启动频率	步距角	驱动方式
VSM1587	12.0V	0.12A	1.44W	2400 RPM	1.8 N·cm	3.6 N·cm	1.8 N·cm	1200 PPS	900 PPS	18°	2-2
VSM1597	5.0V	0.24A	1.2W	2400 RPM	1.8 N·cm	3.6 N·cm	1.8 N·cm	1200 PPS	900 PPS	18°	2-2

Dimensional and performance specification reference for VSM1597 and VSM1587 models.

Performance Metrics

Feature	VSM1597	VSM1587
Rated Voltage	5.0V	12.0V
Resistance	12 ±10%Ω	190 ±10%Ω
Max Self-Start Freq	900 PPS	600 PPS
Max Response Freq	1200 PPS	800 PPS
Introducing Torque	6.0gf-cm	6.0gf-cm
Tripping Torque	9.0gf-cm	8.0gf-cm

General Design Parameters

- Drive Mode: 2-2
- Step Angle: 18°
- Max Motor Height: 11mm
- Base Diameter: ∅14 ±0.05mm
- Mounting Hole Pattern: 2-∅4.3 ±0.03mm

Connectivity

Wiring and Connection

UL1571 AWG30#, 51021-0400 Connector, 4P1.25 Pitch, Color-coded wires