

FEATURES

- Step angle of 0.9°
- Holding torque of 1.26 Nm
- Four-wire unipolar winding
- Voltage rating of 2.5 V
- Frame size of 56.4 x 56.4 mm
- Hybrid, permanent magnet stepper motor type
- Shaft diameter of 6.35 mm
- Current rating of 2.8 A
- Unipolar winding arrangement
- Shaft length of 19 mm
- Depth of 56 mm
- Resistance per phase of 0.9 Ω
- RoHS (Restriction of Hazardous Substances) compliant product

RS PRO Hybrid, Permanent Magnet Stepper Motor, 2.5 V, 6.35mm Shaft Diameter

RS Stock No.: 535-0502



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

The RS PRO 4-wire unipolar hybrid permanent magnet stepper motor helps you achieve both precise movements and carefully spaced steps in electrical assemblies. It will offer high torque even at lower speeds.

General Specifications

Stepper Motor Type	Hybrid, Permanent Magnet Stepper
Step Angle	0.9°
Step Angle Accuracy (Full Step, No Load)	±5%
Holding Torque	1.26Nm
Applications	Floppy disk drives, flatbed scanners, computer printers, plotters, slot machines

Electrical Specifications

Voltage Rating	2.5V
Current Per Phase	2.8A
Number Of Wires	4
Resistance Per Phase	0.9Ω
Winding Arrangement	Unipolar
Resistance Accuracy	±10%
Inductance Per Phase	2.5mH
Inductance Accuracy	±20%
Rotor Inertia	300kg-cm ²
Insulation Resistance	100MΩ min., 500Vdc
Dielectric Strength	500Vac for one minute

Mechanical Specifications

Shaft Diameter	6.35mm
Shaft Length	19mm
Depth	56mm
Frame Size	56.4mm x 56.4mm
Weight	0.7kg
Maximum Radial Force	75N (20mm from front flange)
Maximum Axial Force	15N
Shaft Radial Play	0.02 max. (450 g-load)
Shaft Axial Play	0.08 Max. (450G Load)

Operation Environment Specifications

Maximum Temperature Rise	80°C
Ambient Temperature	-10°C to +50°C

Approvals

Compliance/Certifications	EN61340
Standards Met	RoHS Compliant



