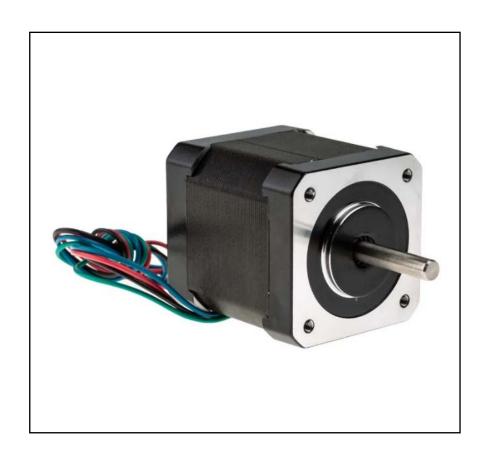


### **FEATURES**

- Step angle of 0.9°
- Holding torque of 0.44 Nm
- Four-wire bipolar winding
- Voltage rating of 2.8
- Frame size of 42.3 x 42.3 mm
- Hybrid stepper motor type
- Shaft diameter of 5 mm
- Current rating of 1.68 A
- Shaft length of 24 mm
- Depth of 47 mm
- Resistance per phase of 1.65 Ω
- RoHS (Restriction of Hazardous Substances) compliant product

# RS PRO Hybrid Stepper Stepper Motor, 2.8 V, 5mm Shaft Diameter

RS Stock No.: 535-0401



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 hybrid stepper motor allows you to make precise and controlled movements with electric devices. Stepper motors are brushless assemblies that divide a full motor rotation into several smaller, equal steps, for greater precision and higher efficiency at lower speeds. A hybrid stepper model combines both permanent magnet and variable reluctance motor technology to maximize power in small devices.

#### **General Specifications**

Stepper Motor Type	Hybrid Stepper
Step Angle	0.9°
Step Angle Accuracy (Full Step, No Load)	±5%
Holding Torque	0.44Nm
Detent Torque	25mHm
Applications	Floppy disk drives, flatbed scanners, computer printers, plotters, slot machines

#### **Electrical Specifications**

Voltage Rating	2.8 V
Current Per Phase	1.68 A
Number Of Wires	4
Resistance Per Phase	1.65 Ω
Wiring Arrangement	Bipolar
Resistance Accuracy	±10%
Inductance Per Phase	6.7mH
Inductance Accuracy	±20%
Rotor Inertia	68kg-cm <sup>2</sup>
Insulation Resistance	100 M Ω min., 500 Vdc
Dielectric Strength	500 Vac for one minute



## **Mechanical Specifications**

Shaft Diameter	5mm
Shaft Length	24mm
Depth	47mm
Frame Size	42.3mm x 42.3mm
Weight	0.35kg
Shaft Radial Play	0.06 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





