

HIGH PERFORMANCE MICROSTEPPING DRIVER MODEL P542A

Model P542A is a full digital high performance DSP driver suitable for 2-phase and 4-phase hybrid steppers requiring a drive current of up to 5.6A/phase. The design features an advanced bipolar constant-current chopper circuit with current control technology. This driver is suited to stepper motor control applications requiring low noise, low vibration, high speed and high precision.

- Supply voltage 20V to 50Vdc
- Inaudible chopping frequency
- Drive current from 1.7A to 5.6A
- Automatic idle current reduction
- Mixed-decay current control for reduced motor heating
- 16 selectable step resolutions in decimal and binary
- Microstepping to 40,000 steps/revolution
- Suitable for 4, 6 or 8 lead wire motors
- Over temperature and over voltage protected
- Short circuit protected
- Compact size



Additional Specifications

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|---------------------|---|
| Drive current: | Adjustable from 1.7A to 5.6A |
| Supply voltage: | Input voltage from +20V to +50Vdc |
| Step control: | Full step or microstepping |
| Control inputs: | Connections for pulse, direction and enable signals |
| Pulse signal: | Speed control to maximum frequency 200kHz |
| Direction signal: | Clockwise or counter-clockwise rotation |
| Enable signal: | Driver enable or disable |
| Logic signals: | Current from 6mA to 20mA |
| Material: | Black coated aluminium |
| Mounting: | Free standing or via mounting holes |
| Dimensions (WxHxD): | 118 x 75.5 x 24.3mm |
| Mass: | 200g |