

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

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