

## 1030 Step Motor Drive

Full, Half & Eighth Stepping  
1.0 amp, 30 VDC

### Features

- DC bus voltage 12-30 VDC motor supply (including ripple)
- Factory settings
  - Motor current at 1.0 per phase
  - 800 steps per revolution
  - Idle current configured at 60%.
  - Optically isolated inputs, 5 – 12V
- 30 watts of usable power
- AMP MTA-100 vertical latching headers
- MOSFET, dual H-bridge, inaudible PWM amplifier
- 3 state, pulse width modulated current control, switching at 20 – 30 KHz.
- Drives 4, 6 or 8 lead size 11, 14, 17, 23 step motors
- CE compliant
- The following factory settings can be changed for volume orders:
  - Motor current
  - Set resolution
  - Idle current reduction
  - Horizontal header can replace vertical headers

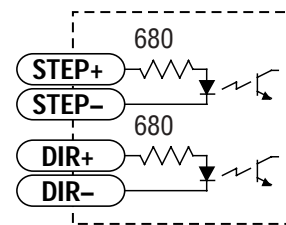
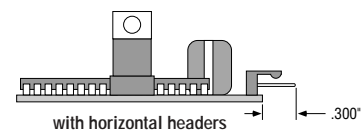
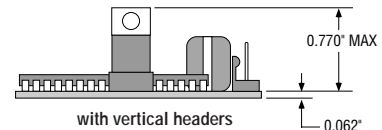
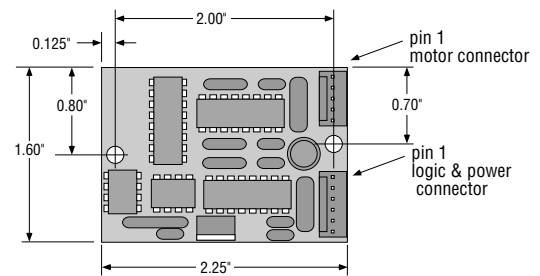
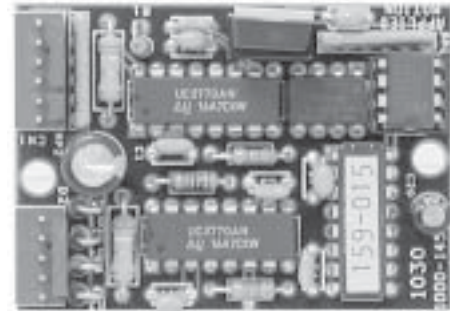
### Description

The 1030 step motor driver is a full, half or one-quarter step per phase sequencer with MOSFET three state switching amplifiers and optoisolated circuits. The drive also includes an automatic feature to lower motor current anytime the motor is left at rest for more than one second.

The amplifier regulates motor current by chopping at a constant, inaudible frequency. The 1030's motor current, step resolution and idle current reduction are all factory configured. Standard configurations for each are stated in the features section above.

### Recommended motors for the 1030 drive:

Size 11	Size 14	Size 17	Size 23
HT11-012	5014-842	HT17-068	HT23-393
HT11-013		HT17-071	HT23-396
		HT17-075	HT23-399



Input Circuit

### Note:

Mating connectors are only supplied with sample orders. See the 1030 user's manual for mating connector part numbers.

## 1030 Torque Curves

