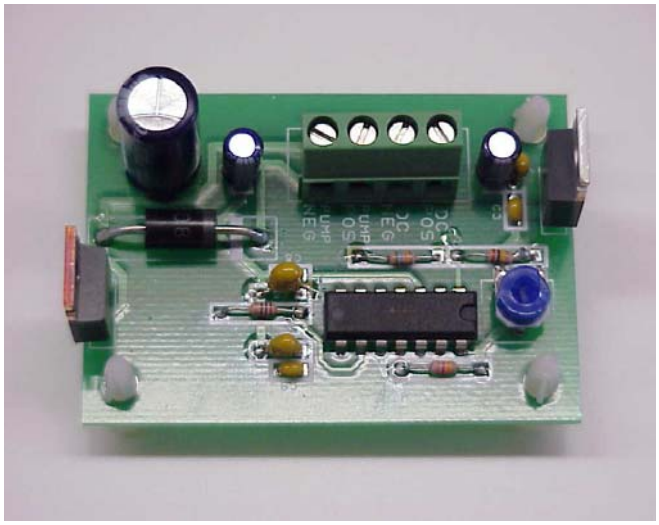
CLARK
PD-106 Pump Driver Board For Solenoid Piston Pumps
DC In, Pulsed DC Out

DESCRIPTION
Model PD-106 is a board level product intended for mounting in a customer provided enclosure. It is intended for use with select Clark solenoid piston pumps to drive the pumps with pulsed DC power.

The board accepts 9-35 VDC input and has a pulsed 9-35 VDC output.

The pulse length is fixed at a nominal 10ms and the dead time between pulses is adjustable via a potentiometer.

The circuit can drive pumps up to 35 volts.



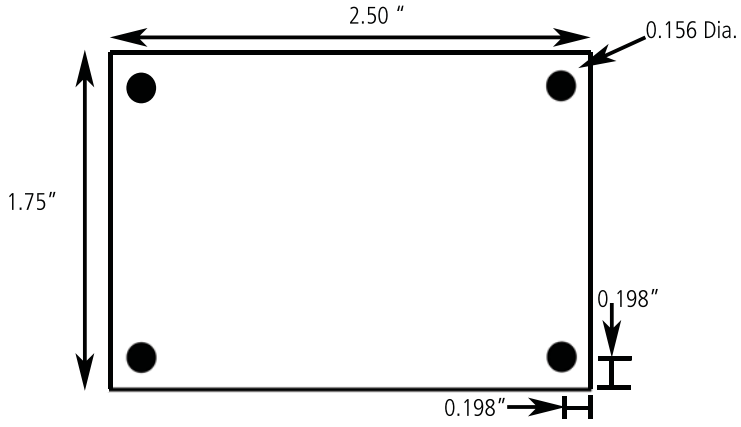
PD-106 With Circuit Board Supports Installed (Actual Size)

PUMP DRIVER SPECIFICATIONS
Input: 9 – 35 VDC
Output: 9 – 35 V pulsed output
Pulse length: fixed at 10 ms nominal
Current output: 1.5 A maximum
Frequency: adjustable via single turn potentiometer, 50Hz maximum
PC Board:
Material: FR4
Surface Finish: HASL, Immersion White Tin
Solder Mask: LPI Green
Connections: 4 position 5 mm PCB connector terminal block
Mounting: Four through holes, 0.156" (4 mm) diameter
Accesssories: Units supplied with four screw mount Nylon circuit board supports. These mount to customer enclosure/chassis with self-tapping no. 6 screws (not supplied)
Dimensions: 2.50"W x 1.75" D x 0.91" Max. H (not including board supports)
Packaging: 3" x 5" ESD shielding bag

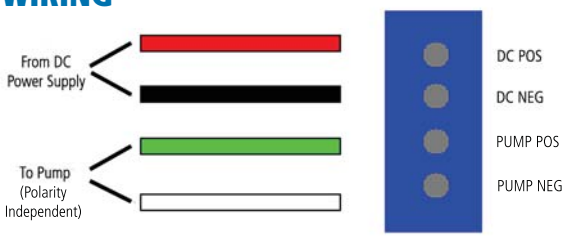
FEATURES

-DRIVE CLARK SOLENOID PUMPS WITH PULSED DC POWER
- PUMPS RUN QUIETLY RELATIVE TO DRIVING WITH AC POWER
- PUMPS RUN COOLER THAN AC DRIVEN PUMPS
- PUMP FLOW DELIVERY ADJUSTABLE BY CHANGING VOLTAGE OR FREQUENCY

DIMENSIONS (INCHES)



WIRING



Application Note: To maximize the life of your Clark piston pump it is recommended that supply voltage not exceed 40% of rated pump voltage (16.8 volts for a 12 volt rated pump) and frequency be kept below 40 Hz. The PD-106 is designed for use specifically to drive certain Clark solenoid pumps. Check pump data sheets for suitability or call factory.

ORDERING INFORMATION

MODEL NUMBER: PD-106