



C3 (Constant Current Controller)

- Low-Side Proportional Constant Current
- Raw Voltage Range 5 – 32VDC
- 100% Current Factory Set Up To 2.2A
- Dithering For Proportional Valves
- Proportional Range Set In Software
- Internal Reference For Consistent Response
- Analog & Digital Control Inputs
- Handles All Loads Including Valves & LEDs
- Flyback Protection For Inductive Loads
- Available Potted Harsh Duty Applications
- LED Status Indicator
- In-Circuit Programming
- One Screw Mounting
- Board Size: 1.85 x 1.85 x 0.8 in.
- Potted Size: 2.1 x 2.1 x 0.8 in.



FUNCTIONAL DESCRIPTION

The C3 is a general purpose device that controls devices such as proportional valves, constant torque motors, and high power LED's from proportional or digital inputs. The load circuit is connected between the raw supply voltage (5-32VDC) and the proportional output via ¼ inch tabs. The internal microprocessor (PIC16F818) can be programmed to any response to the input signals. This can be a non-linear response for hydraulic control systems that require delicate feathering or color compensation for high powered LED displays.

The microprocessor can be programmed via the in-circuit port to allow modules (including potted) to be customized to the application. An ultra bright LED provides diagnostic feedback.

The microprocessor can easily be programmed to provide low frequency dithering to overcome stiction in proportional valves.

The C3 is 100% designed and manufactured in the USA. Support including customer service and customized software or hardware is readily available. Free software and custom design are available to qualified OEM customers. Code support is available at no charge to all developers.

For more information: www.lsi-controls.com; info@lsi-controls.com; 717-762-2191
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