

Compact DC/DC LED Drivers

MDT Staff



The LD48 series, now available now from MicroPower Direct, is a family of miniature, DC/DC LED drivers. Specifically designed to power/control high brightness LEDs, these units feature a constant current output up to 1A, PWM & analog dimming, and efficiency to 97%.

Eight models operate from a very wide input voltage range of 7.0 to 60 VDC and provide constant current outputs of 150, 250, 300, 350, 500, 600, 700 or 1,000 mA. Standard features include efficiency to 97%, short circuit protection, and a remote on/off input. LED brightness (dimming) may be controlled by an analog voltage input or digitally by a PWM input. The PWM input may also be used as a remote ON/OFF control input. The MTBF (per MIL HDBK 217F) of the LD48 series is greater than 950 khours.

All models of the LD48 family are packaged in a compact MiniDIP case with an industry standard pin-out. Units rated to IP67 are available with wire leads. Each model is specified for operation over the wide industrial operating temperature range of -40°C to +85°C ambient with no derating or heat sinking required. Cooling is by free-air convection.

The LD48 series is an ideal solution for use with HBLEDs available from a variety of manufacturers. They provide the stable output current, wide temperature operation, very high reliability and dimming control required for a wide range of lighting applications.

All MicroPower Direct products are designed to provide long, reliable field life. Considerable attention is given to the proper selection, derating, and layout of all circuit components. In addition, extensive reliability screening is also performed on

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all modules as a routine part of our production process.

For more information, visit www.micropowerdirect.com [1].

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[1] <http://www.micropowerdirect.com>