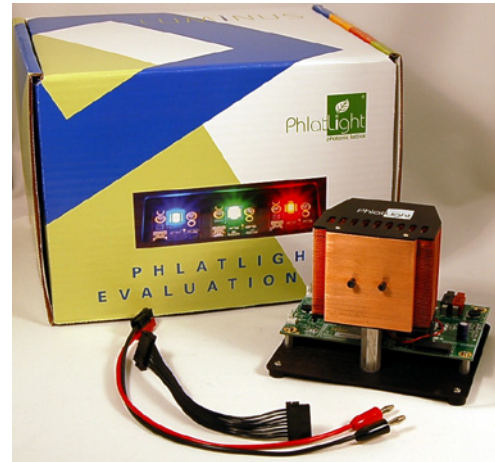


Big Chip LED™ Development Kit Brief

DK-409N Series



Overview

Big Chip LED DK-409N-1 development kit is a comprehensive solution designed specifically to support development of Big Chip LED CBM-360 based solutions.

The kit includes highly versatile drivers and control circuitry, efficient thermal management solutions, clean interfaces, and cabling for use with standard laboratory equipment. The inclusion of these components ensures the Big Chip LED CBM-360 LED module can be operated optimally at any drive condition. Whether this is low power for maximum efficiency, high power for maximum brightness or anywhere in between, the Big Chip LED DK-409N Development Kit ensures the right performance.

This plug and play solution can easily be connected to standard laboratory equipment through standard connectors and allows system designers to save weeks in their development cycles.

Key Features

- Compatible with CBM-360 Big Chip LED LEDs
- Driver board supply currents of 9A
- On board control for PWM dimming for lighting applications or triggered pulses for vision applications

Main Features

- Can be operated either in pulsed or continuous waveform (CW) modes
- Static current control via on board dial knob
- On board pulse width modulation controller supports pulsed mode operation with duty cycles ranging from 0% - 100%
- 0-10V input for variation in PWM duty cycle
- Triggered mode for timed pulses - set times range from 50 microseconds to 1 second
- Typical thermal resistance of 0.3°C/W from heat sink to ambient
- Driver circuitry based off of National LM3421 IC

Development Kit Contents

- 1 comprehensive driver and control board capable of providing 9A to the LED
- 1 compact, high performance, air-cooled heat sink
- Electrical wiring between all components and devices
- Thermal interface materials and mounting hardware
- User manual including step-by-step instructions for set-up and operation of the kit

User Equipment Required

- Standard 24V/150W power supply
- Standard laboratory instrumentation - volt meter, oscilloscope, photodetector
- 0-5V power supply for triggered mode operation

Note: Big Chip LED products are not included in the development kits and must be purchased separately.

Product Compatibility

Development Kit Part Number	Compatible Big Chip LEDs
DK-409N-1	CBM-360-W

Ordering Information

Ordering Part Number	Product	Description
DK-409N-1	DK-409N Big Chip LED Development Kit	Single channel development kit, with 9A driver/control board, heat sink, cable assemblies and user manual

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