

08/09-01

Datasheet and connecting plan

HKO-L Slimline High Power Constant Current Source

for High-Power-LEDs - extra slim, extra compact



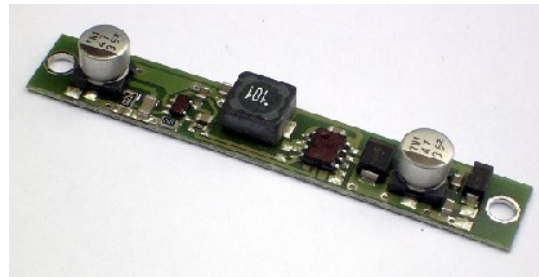
HKO-L - HIGH POWER CONSTANT CURRENT SOURCE SLIMLINE

for safe operation of High-Power LEDs from 50 to 700 mA

High efficiency and very little heat is achieved by modern switching-technology. The use of special amplifiers guarantees precise and constant output current. Very small dimensions, low weight and high reliability through SMT-technology (surface mounted components). Every HKO is electronically tested.

Technical data for all versions:

- Startup: ca. 5,8 volts (for one High-Power-LED)
- Drop: ca. 2,5 volts
- Maximum input voltage: 35 Volt DC
- Output: short circuit protected
- Output current: 50 to 700mA (depending on type)
- Input: reverse polarity protected
- Tolerance < 3% over the whole voltage range
- Efficiency: depending on the count of LEDs and the input voltage between 75 und 90 %
- Thermal overload protected
- Working temperature range: -40 °C bis +85 °C



The circuit can drive with constant current up to 10 High-Power Leds in white, blue or green, or up to 16 High-Power Leds in red , amber or orange, depending on input voltage.

The circuits backside consists of tin-plated copper to support better heat management. It is connected with -IN, please take care when mounting. In some very hot environment it could be necessary to cool the module. It is recommended to use "Cooltape", it is also possible, to mount it on a metal-surface like a computer case etc..

Printed circuit board:

Dimensions: 62 mm x 10 mm, 7 mm high

Length without flanges: 52 mm (cut)

Connection: soldering pads

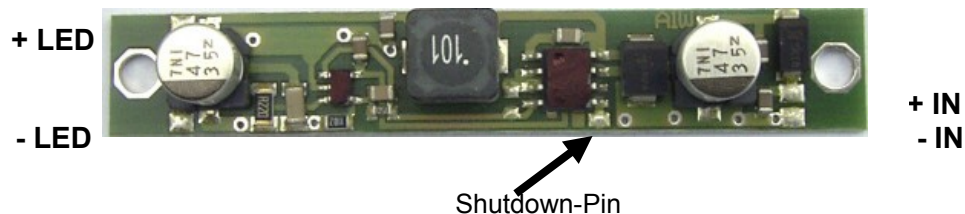
Weight: ca. 4 grams

Material: FR4, glass/epoxy

Backside: copper, tin-plated, connected with - IN

Shutdown- Pin: At the Shutdown- Pin is a soldering Pad that can be used for external controlling (e.g. by using our "dimled" to control the brightness) independent auf your main power supply.
(TTL-compatible). Open = On 0 = Off
Attention! Maximum voltage: 5 volts

Connecting plan:



Attention: NEVER connect „-IN“ and „-Led“!!! Do not switch output side, switch input side only.

Available versions:

HKO-L 50 to 700 mA in 50 mA-steps

-Date: 08/09-alterations preserved-

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