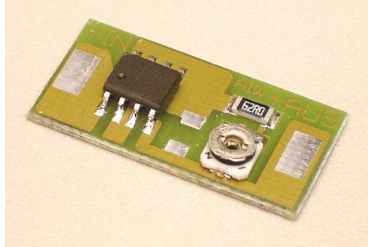


08/04-04

KONREG Adjustable Precision Constant Current Source Adjustable from 8 to 20 mA

Data sheet and connections



"Automatic Pre-Resistor"

Adjustable SMT- constant current source for DC
Working range from 5V to 40 V max., depending on load. *
Adjustable from 8 to 20 mA.
Connection by soldering, large soldering areas.
Can easily be used instead of a pre-resistor.
Thermal protection and protection against confusion of the poles!
Precision by Integrated Circuit Design,
Tolerance < 3% over the entire voltage range

Technical Data:

Input voltage: 5 V up to 40 V DC
Output current: 8 mA to 20 mA adjustable
pole protection: safe up to max. 40 V
Output: thermally protected
Temperature range: -40 °C to +85 °C
Dimensions: 11mm (W) x 3mm (H) x 22mm (L)
Drop (power consumption): approx. 3 V
Weight: approx. 1 gram

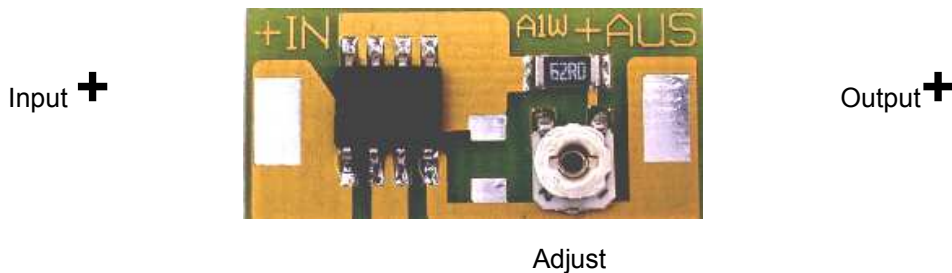
<p>*je nach Belastung: P_V am Regler < 600mW $(U_E - U_A) \times I_A = P_V$</p> <p>$((U_{\text{Eingang}} - U_{\text{Ausgang}}) \times I_{\text{Ausgang}} = P_{\text{Verlustleistung}})$</p>

Benefits:

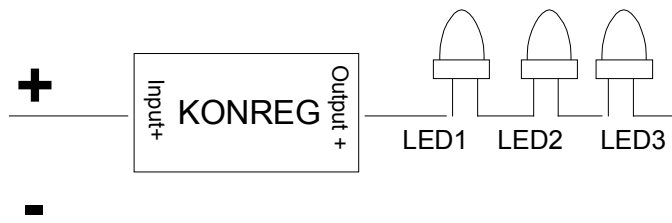
Thermal protection and protection against confusion of the poles!
Precision by Integrated Circuit Design,
Tolerance < 3% over the entire voltage range
Fixed Versions are available! (lower in price)

Connection:

The module replaces the necessary pre-resistor, connect it easily instead of the resistor. (Check polarity) Output current stays precisely constant, independently from operating voltage (within the operating range) and temperature of the environment.



Example series connection:



Other setting-ranges are possible in the region from 2 mA to 70 mA on demand