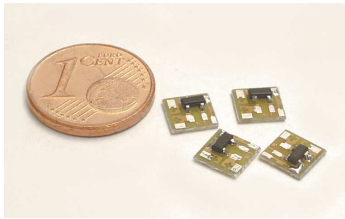


08/04-01

**MIKROKON DC – Low Drop - Low Cost Micro Constant Current Source**

*Datasheet and connections*



**MIKROKON DC – Tiny Low Cost - Low Drop Constant Current Source for Light Emitting Diodes**

**Micro-** only **6mm x 6mm x 1,8mm**  
**Low Cost-** extremely low price  
**Low Drop-** only about 0,75 V  
**Safe Current Supply for your LEDs!**

Space-saving constant-current solution for LEDs.  
 Dimensions: ca. 6mm (W) x 6mm (L) x 1,8mm (H)

Technical Data:

**Output Standard:** 20 mA DC  
**Input Standard:** 3-18V\*, Optimum at 12V  
 Suitable for connecting 5V PC- Power  
 \*(depends on the number of connected LEDs)  
**Drop :** only about 0,75 V (min.)

Constant current source for DC Voltage.  
 Temperature coefficient negative, power is regulated back when getting hot.

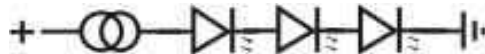
\*depending on load:  
 $P_V$  at the CCS  
 $< 300mW$   
 $(U_E - U_A) \times I_A = P_V$   
 $(U_{Input} - U_{Output}) \times I_{Output}$   
 $= P_{Drop}$

Can drive up to three blue, green or white UHB- Leds with 20 mA or 5 red or yellow ones *in series* at 12V. At 5V, one blue, green or white UHB LED or two red or yellow LEDs can be driven in series. Fits perfectly for model construction through very small dimensions.

Connections:

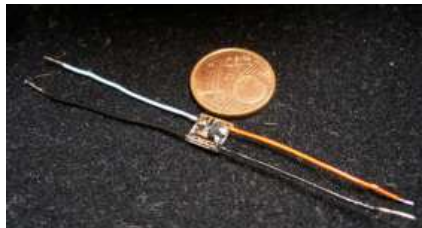


Example series connection:



View with connected wires:

(Comparison in size to a 1 Eurocent piece)



**To keep in mind:**  
**Attention:**  
 No protection against reverse polarity, short circuit or overheating.  
 Temperature on output pin(+) of the integrated circuit may not exceed +85°C. Reverse polarity, short circuit, overheating and utilisation unlike advised in this datasheet can damage the CCS and the LEDs. Warranty purges when not followed.

Additional available versions from 10 to 50 mA on request.