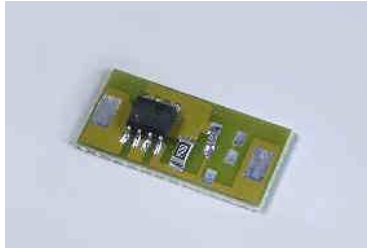


07/05-04



# KONFEST „Automatic Pre-Resistor“ Precision Constant Current Source Versions from 2-70 mA

Data sheet and connections



### “Automatic Pre-Resistor”

Fixed SMT-constant current source for DC  
Working range from 5V to 40 V max., depending on load. \*  
Connection by soldering, large soldering areas.  
Can be used easily instead of a pre-resistor.  
**Thermal protection and reverse polarity protection !**  
**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: from 2 mA to 70 mA depending on version  
Reverse polarity 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

\*depending on the load:

$P_L$  on regulator < 600mW  
 $(U_i - U_o) \times I_o = P_L$   
 $( (U_{Input} - U_{Output}) \times I_{Output} = P_{Loss} )$   
 $U_i$  = Input-voltage  
 $U_o$  = Output-voltage  
 $I_o$  = Output-current  
 $P_L$  = Power-loss

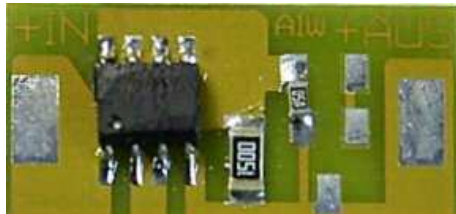
### Benefits:

**Thermal protection and reverse polarity protection!**  
**Precision by Integrated Circuit Design,**  
**Tolerance < 3% over the entire voltage range**  
**Adjustable versions are available!**

### Connection:

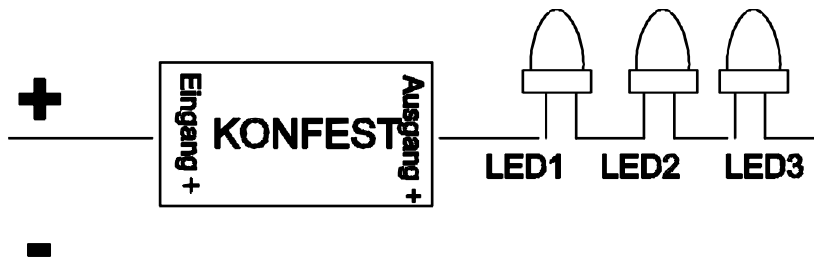
The module replaces the necessary pre-resistor, connect it easily instead of the resistor. (Check polarity) Output current stays precisely constant, independent from operating voltage (within the operating range) and temperature of the environment.

Input +



Output +

### Example series connection:



Available versions: KONFEST2, KONFEST10, KONFEST20, KONFEST30, KONFEST50, KONFEST70  
(The number gives the output-current in mA, e. g. KONFEST20 = 20 mA)

date 07/05- alterations preserved.

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