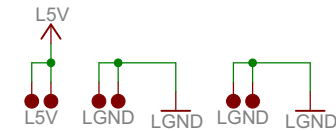


Testpunkte 5V Speisung



LED

SPI

PWM-Ausgänge

Schalter

I2C = TWI

UART 1 (USB)

Tastenmatrix

Buzzer

UART0 (RS485)

Analog Comparator

FET-Stufen ("OD", Weak Pull-Up)

Real Time Clock Interrupt-Leitung

Optokoppler1 - 3

Voltage Measure (0 - 50V) (1 LSB = 50mV)

Analog Inputs auf ADC

Programmierschnittstelle

7 Segment Controll Pins

PWM Output
extern beschaltbar

TITLE: EL0B_U1722_Index_B

S-TEC electronics AG, CH-6300 Zug

Version: Art. 108'695

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Sheet: 1/8

P108.695

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Datum: 12.06.2017 10:43:23

8 Taster

The diagram illustrates an 8-taster input circuit. It features eight input pins, labeled PJ0 through PJ7, connected to a common L5V supply line. Each input pin is connected to a 1kΩ pull-up resistor (R23 to R109) and a 100kΩ pull-down resistor (R3 to R20) to LGND. The input pins are also connected to a common PTS645SM43 line. Each input pin has a TA0 to TA7 indicator. The circuit is labeled "8 Taster".

8 Schalter

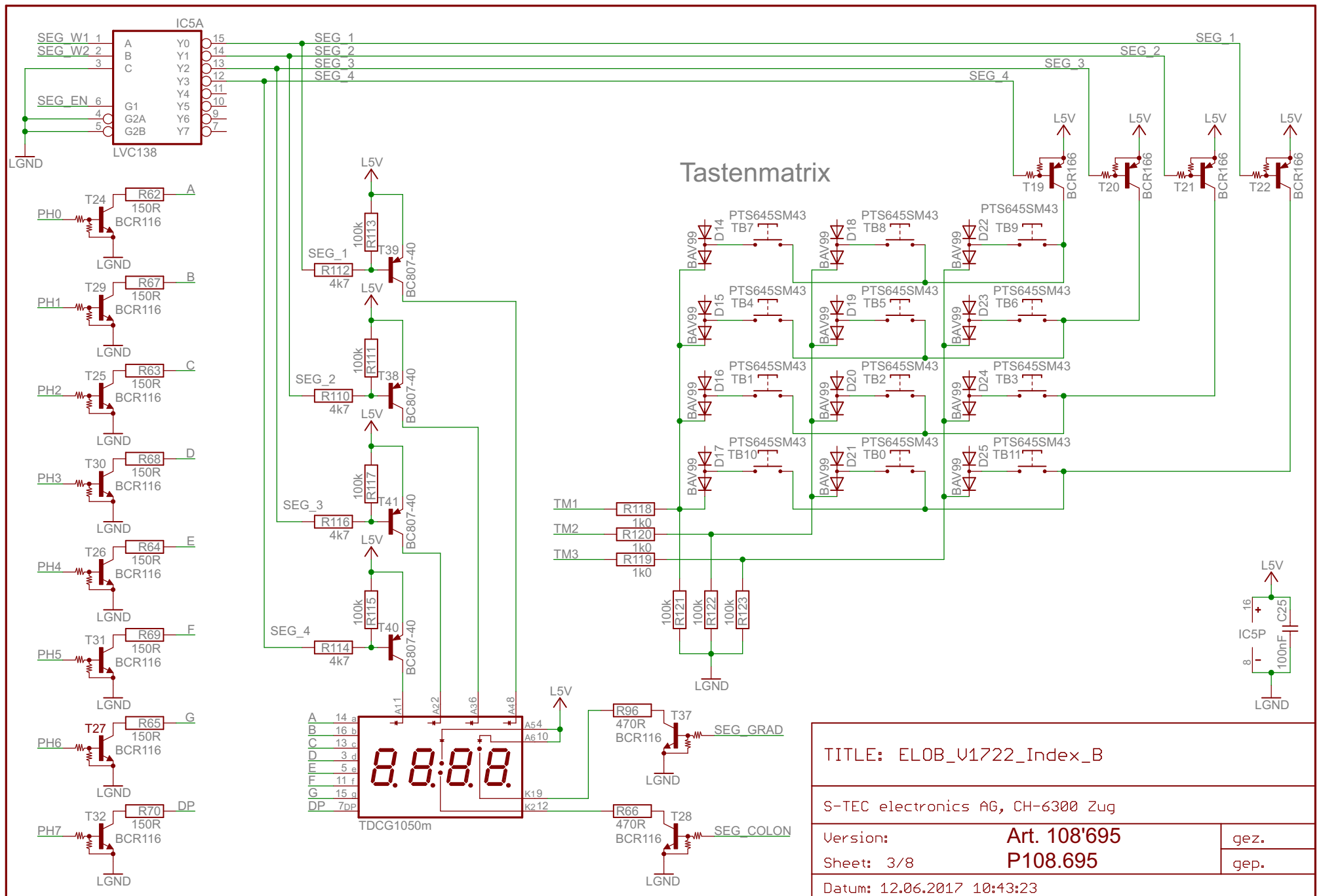
The diagram illustrates an 8-switch circuit. It features eight input lines, labeled PC0 through PC7, each connected to a 1kΩ resistor (R40 to R105). These resistors are connected to a central vertical bus. The bus is connected to ground (LGND) and has 100kΩ resistors (R2 to R27) connected to it. Each input line also has a 5V supply (L5V) and a switch (S0 to S7) connected to ground. The switches are labeled JS202011SCQN.

The diagram shows a vertical stack of 8 identical LED driver stages. Each stage consists of a BCR116 PNP transistor (T1-T8) with its emitter connected to LGND. The base of each transistor is connected to a microcontroller pin (PA0-PA7) through a 1k2 resistor. The collector of each transistor is connected to a 1k2 resistor (R1-R8) in series with an LED (LD0-LD7). The other end of each LED is connected to a common L5V supply line. The LEDs are represented by a triangle pointing towards the L5V line, indicating they are common anode.

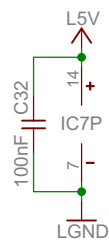


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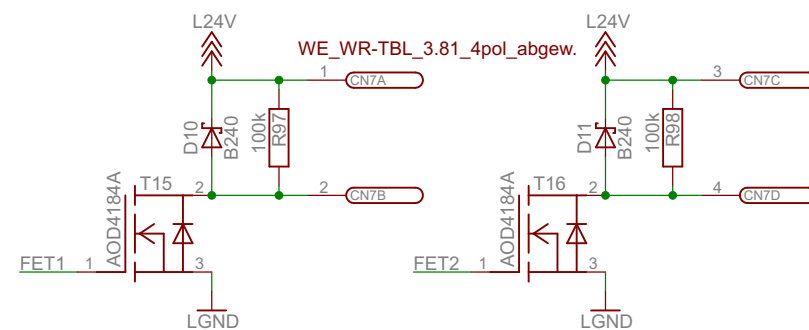
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WE_WR-TBL_3.81_8pol_abgew.

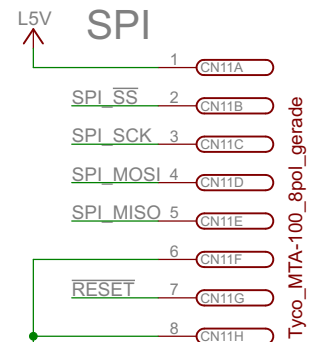


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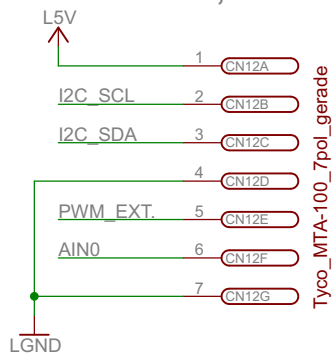
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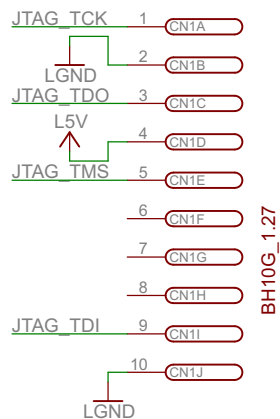
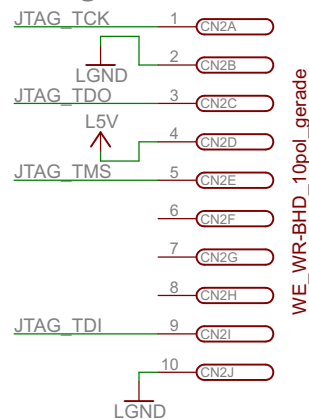


LGND

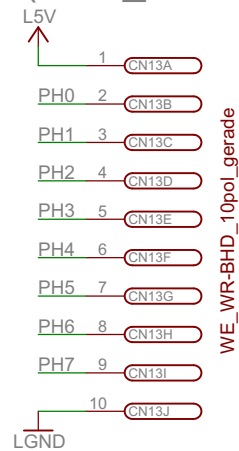
**I2C, Analog-Comparator,
PWM Ext., PD7**



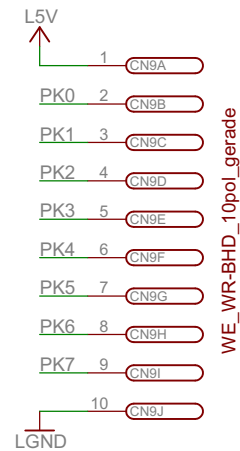
Programmier-Stecker



PORTL
(SEG_EN muss aus sein)



PORT K



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Version: Art. 108'695

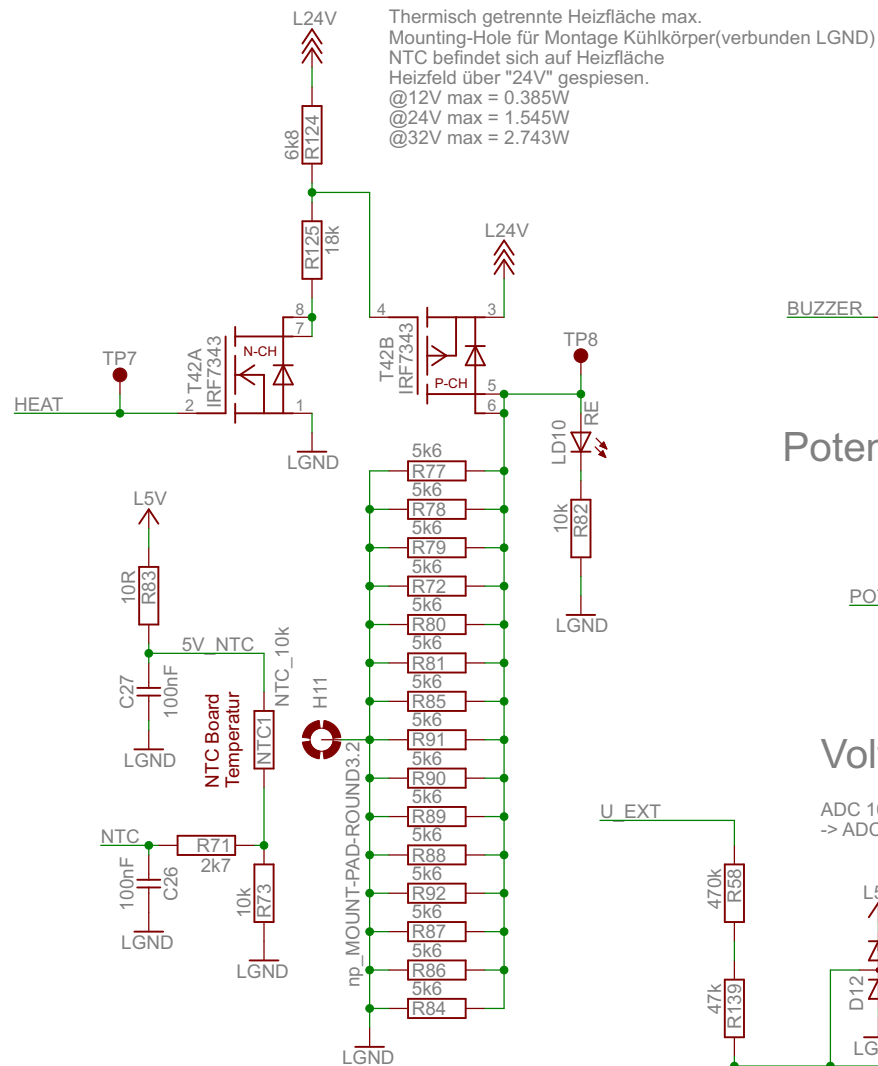
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Sheet: 5/8 P108.695

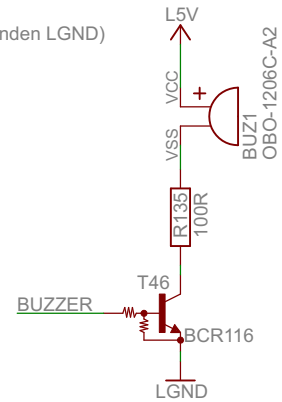
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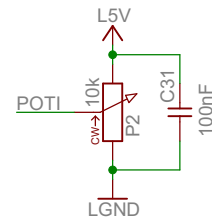
Temperaturmessung und Regelung



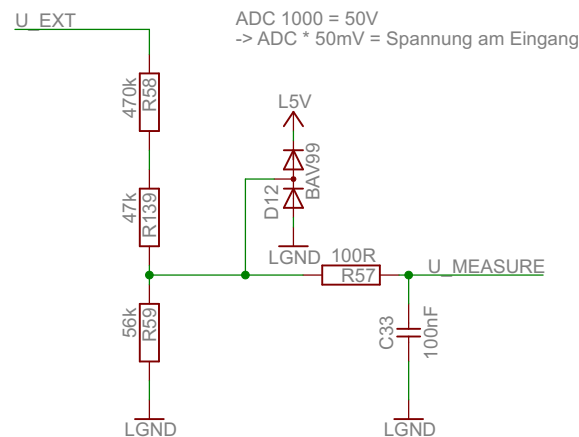
Buzzer



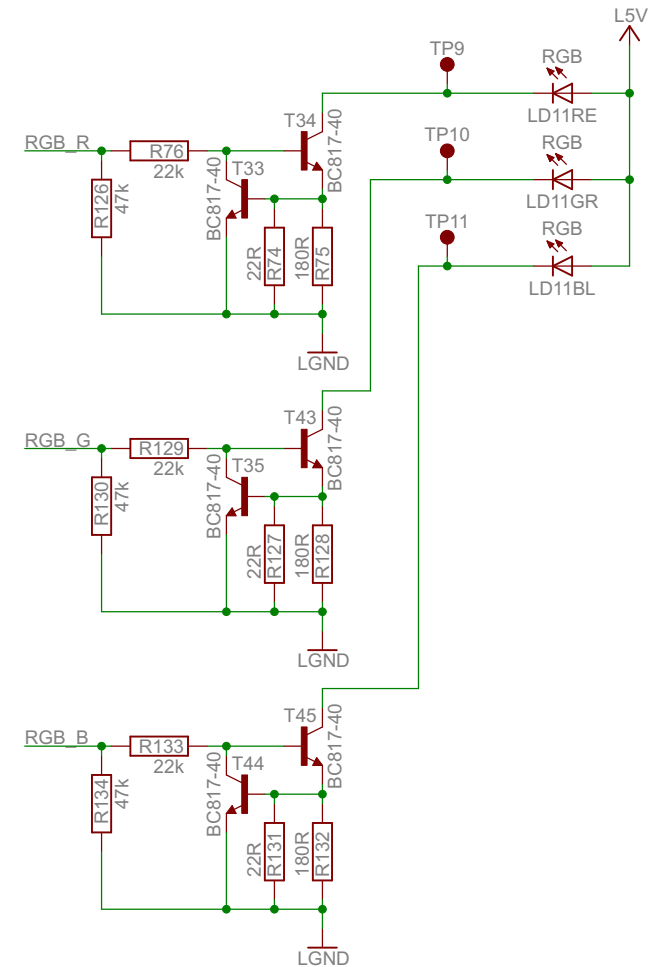
Potentiometer auf ADC



Voltage Measure



RGB-LED



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S-TEC electronics AG, CH-6300 Zug

Version: Art. 108'695

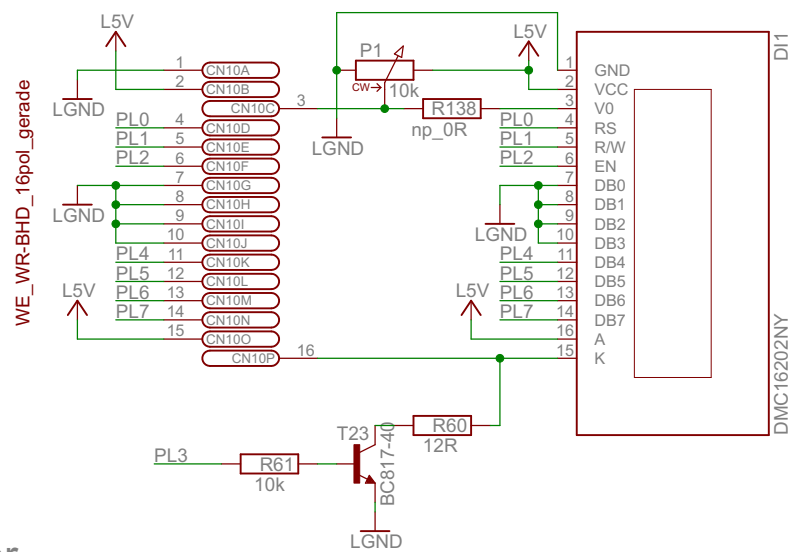
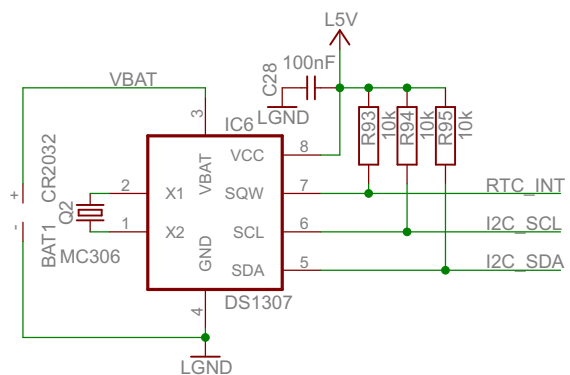
Sheet: 6/8 P108.695

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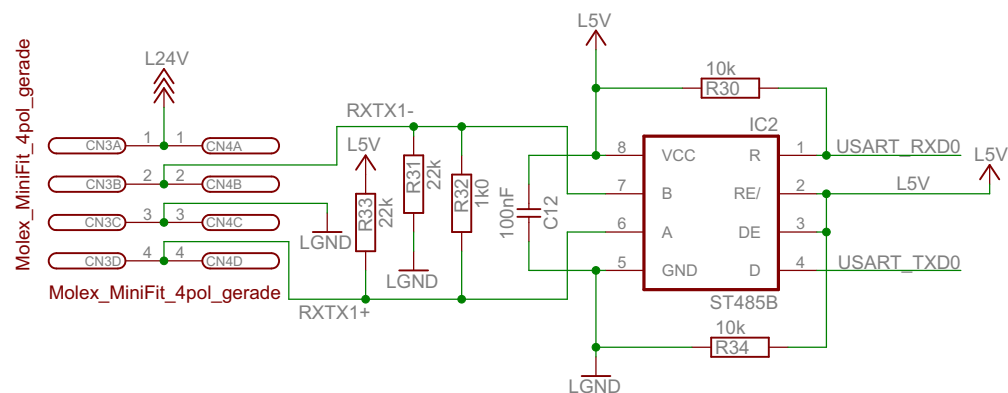
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Real-Time-Clock via I2C



RS485 - UART Wandler



TITLE: ELOB_V1722_Index_B

S-TEC electronics AG, CH-6300 Zug

Version:	Art. 108'695
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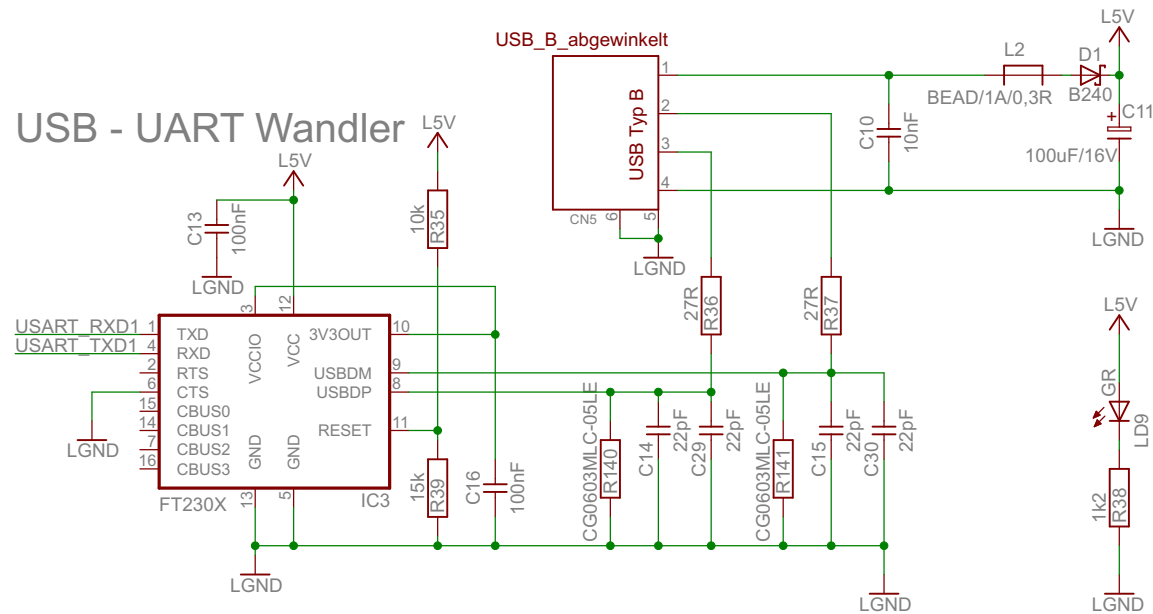
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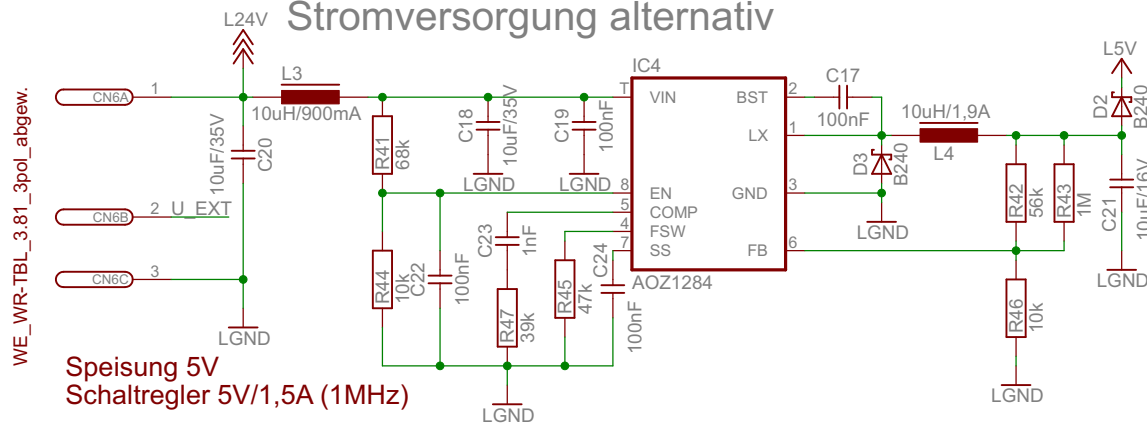
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Stromversorgung und Kommunikation USB

USB - UART Wandler



Stromversorgung alternativ



Speisung 5V
Schaltregler 5V/1,5A (1MHz)

- H1 np_MOUNT-HOLE2.8
- H2 np_MOUNT-HOLE2.8
- H3 np_MOUNT-HOLE2.8
- H4 np_MOUNT-HOLE2.8
- H5 np_MOUNT-HOLE4.3
- H6 np_MOUNT-HOLE4.3
- H7 np_MOUNT-HOLE4.3
- H8 np_MOUNT-HOLE4.3
- H9 np_MOUNT-HOLE4.3
- H10 np_MOUNT-HOLE4.3

TITLE: ELOB_V1722_Index_B

S-TEC electronics AG, CH-6300 Zug

Version: Art. 108'695

Sheet: 8/8 P108.695

Datum: 12.06.2017 10:43:23

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