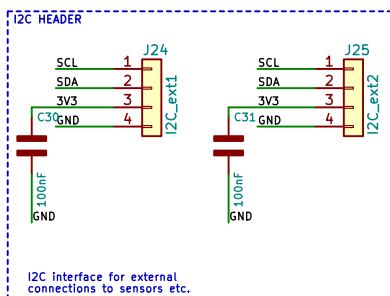
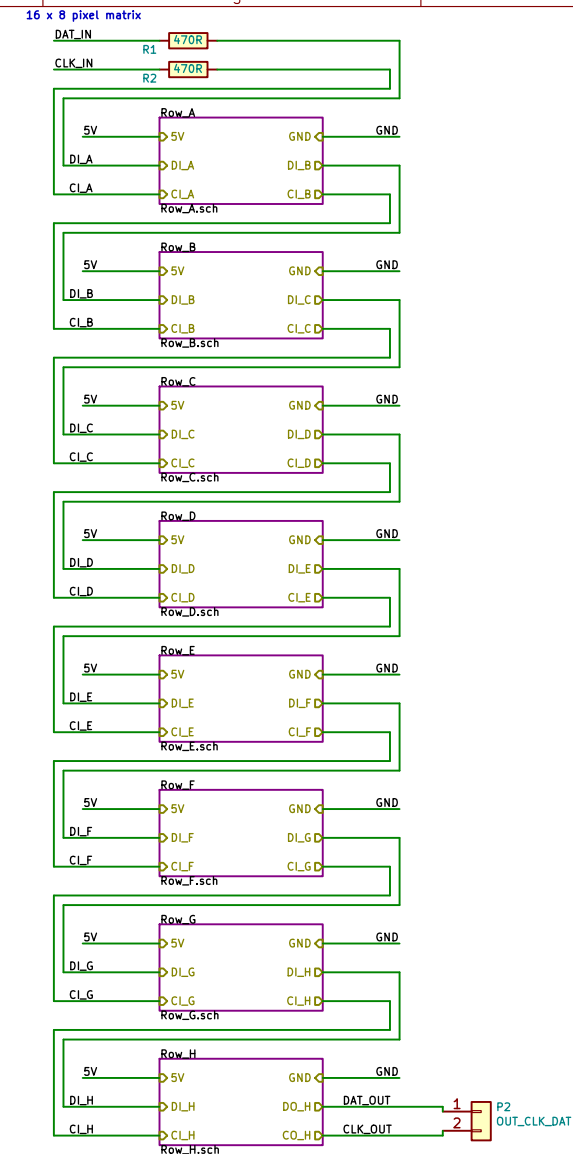
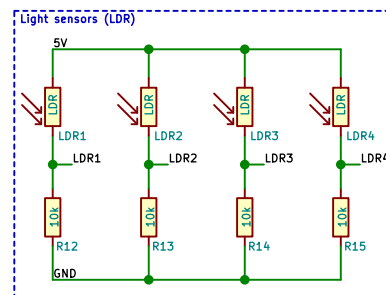
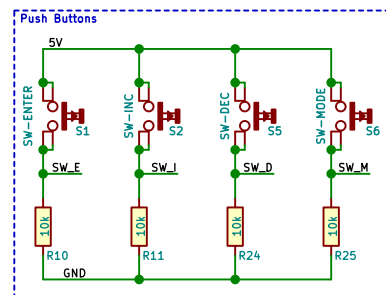
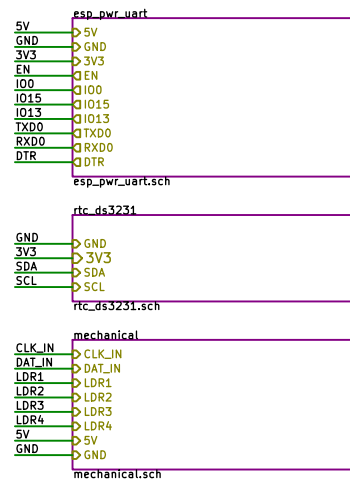




SPI header with breakout pins.
Connect with wire to appropriate pins on ESP32

Native SPI pins are (clk, mosi, miso, cs):
SPI1: 6, 8, 7, 11
HSPI: 14, 13, 12, 15
VSPI: 18, 23, 19, 5
If using native pins max SPI clock can be set to 80 MHz.
Only HSPI & VSPI are supported by esp-idf driver.



I2C interface for external connections to sensors etc.



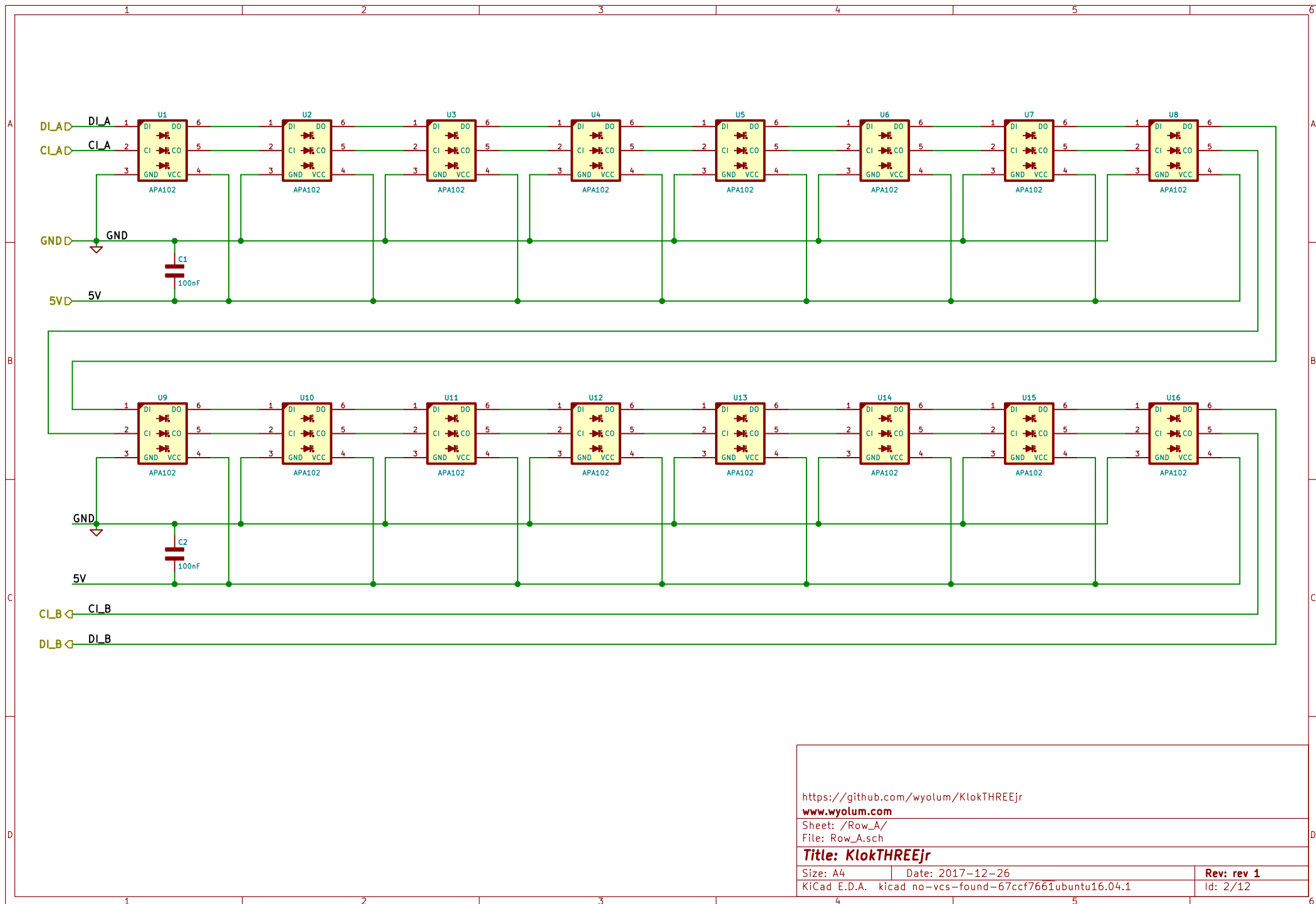
<https://github.com/wyolum/KlokTHREEjr>
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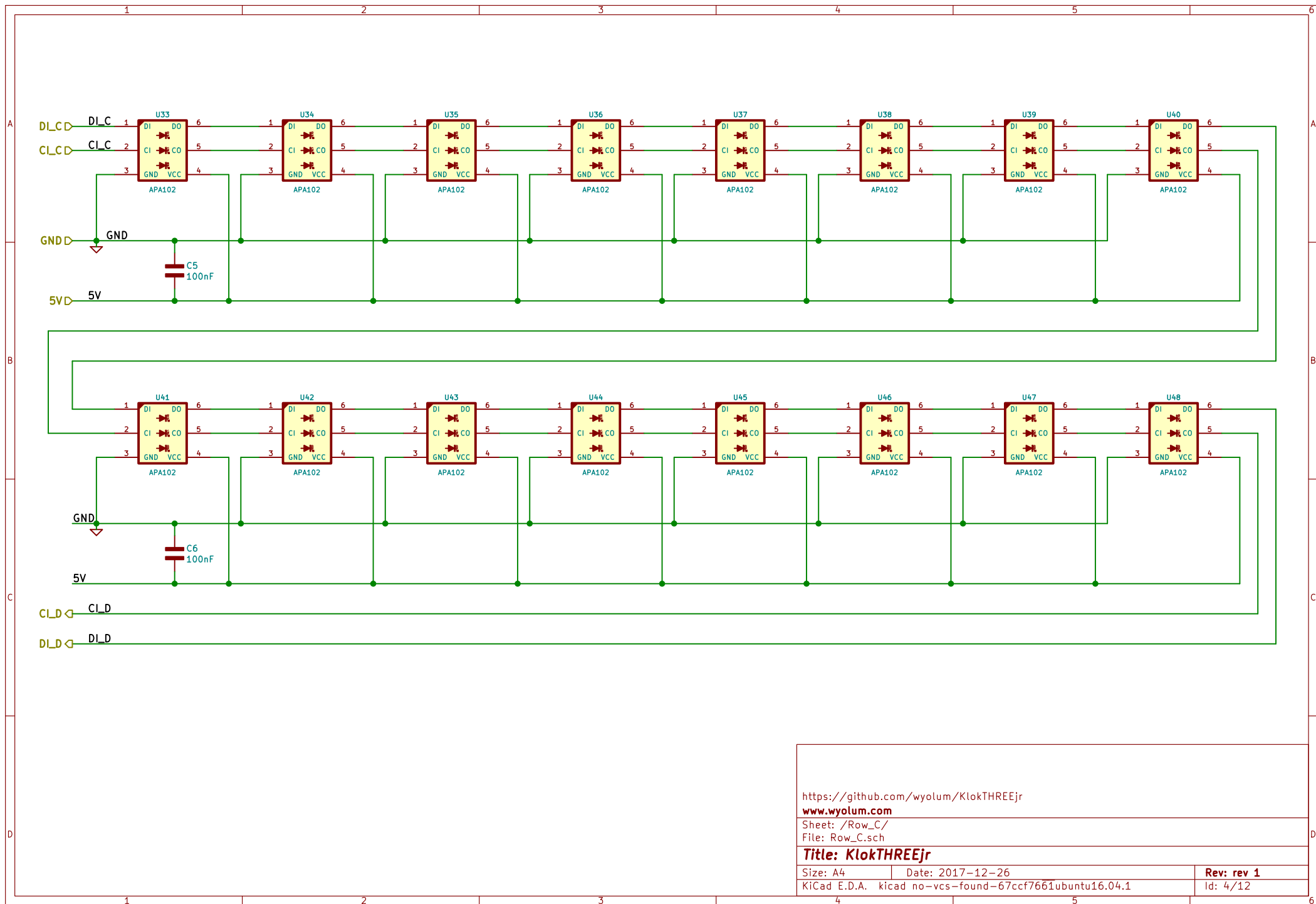
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Title: KlokTHREEjr

Size: A4	Date: 2017-12-26	Rev: rev 1
KiCad E.D.A. kicad no-vcs-found-67ccf7661ubuntu16.04.1	Id: 1/12	

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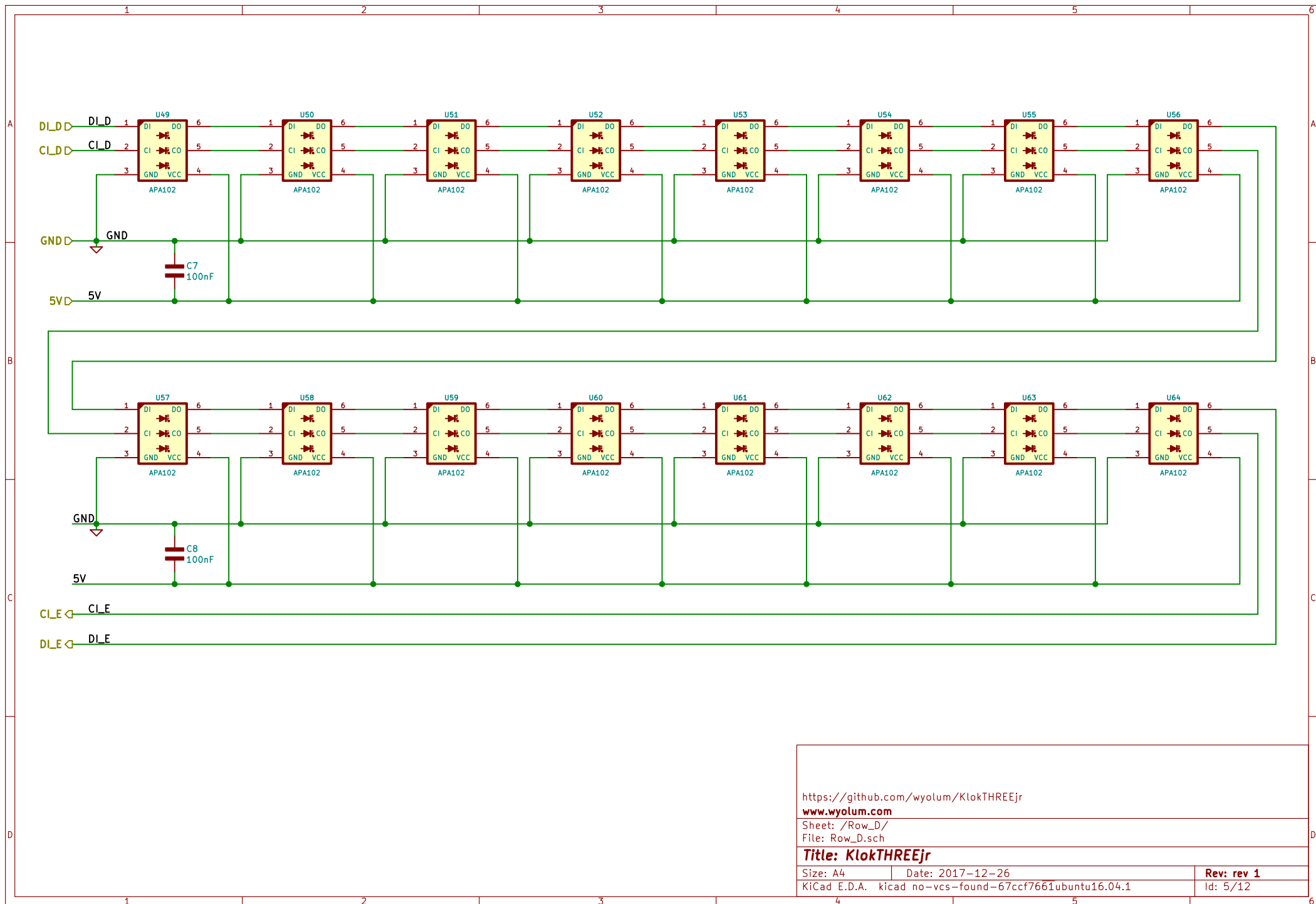
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Size: A4 Date: 2017-12-26

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Rev: rev 1

Id: 4/12



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File: Row_D.sch

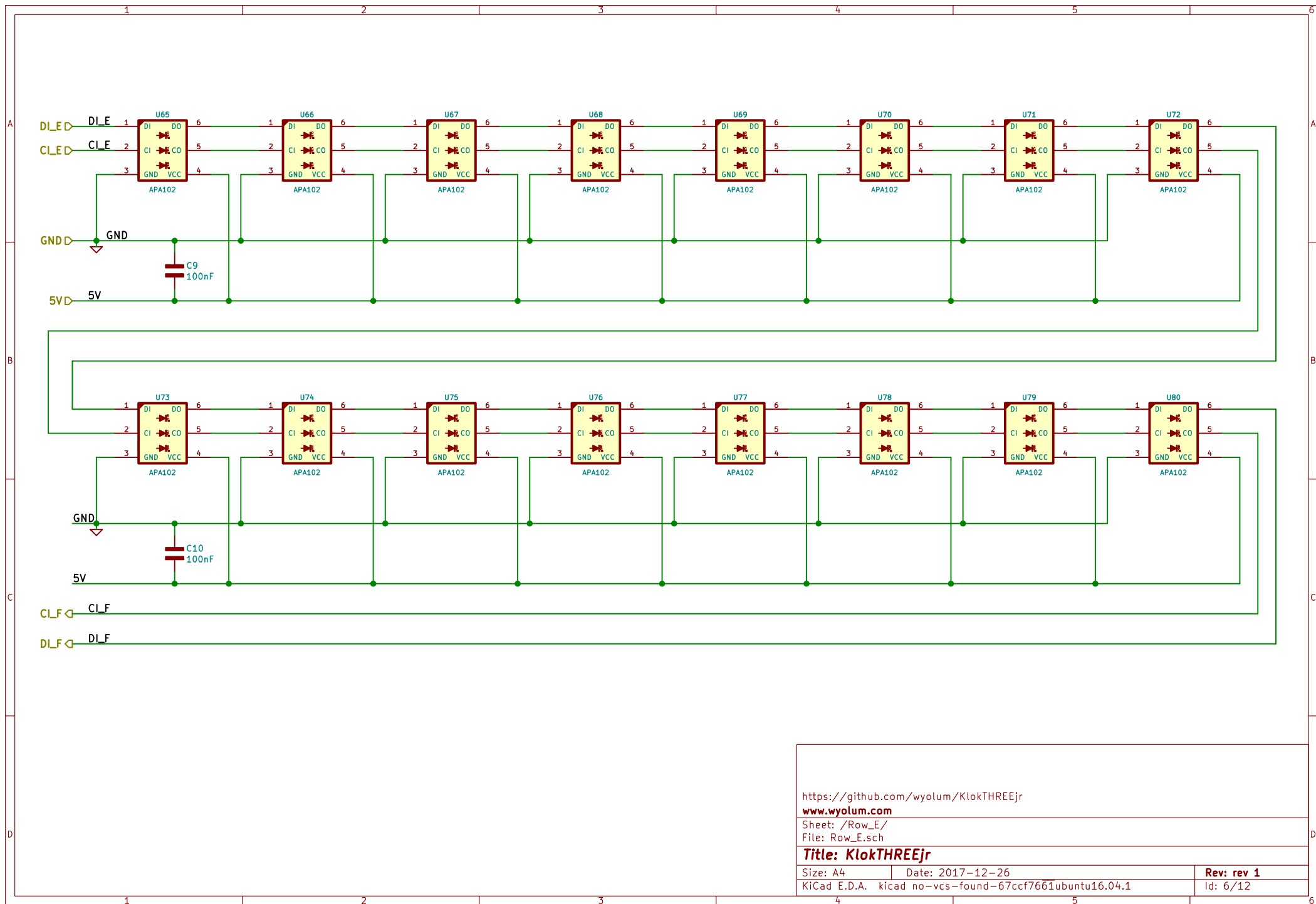
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Size: A4 Date: 2017-12-26

KiCad E.D.A. kicad no-vcs-found-67ccf7661ubuntu16.04.1

Rev: rev 1

Id: 5/12



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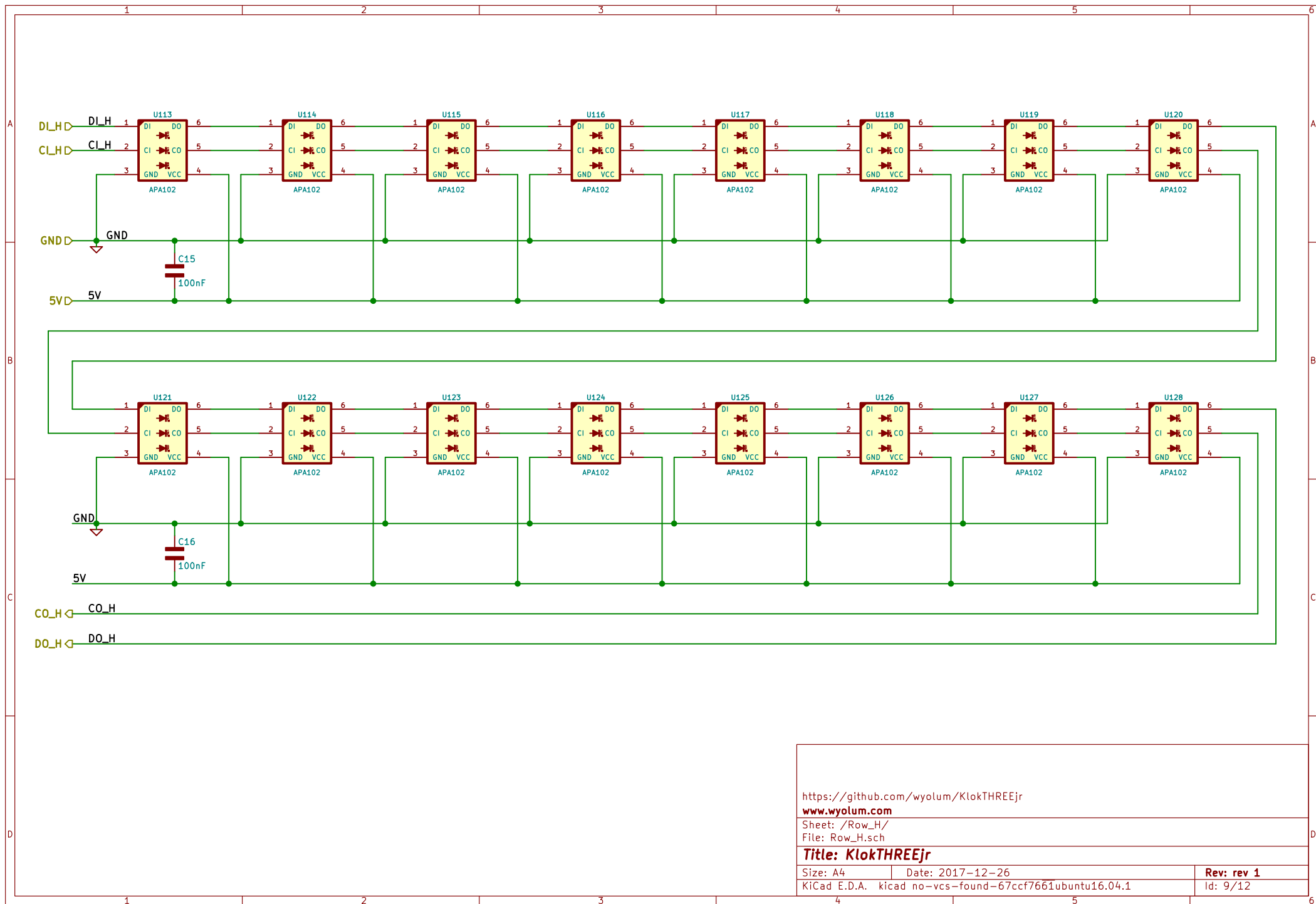
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Size: A4 Date: 2017-12-26

KiCad E.D.A. kicad no-vcs-found-67ccf7661ubuntu16.04.1

Rev: rev 1

Id: 6/12



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Sheet: /Row_H/

File: Row_H.sch

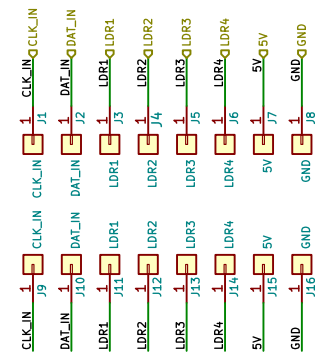
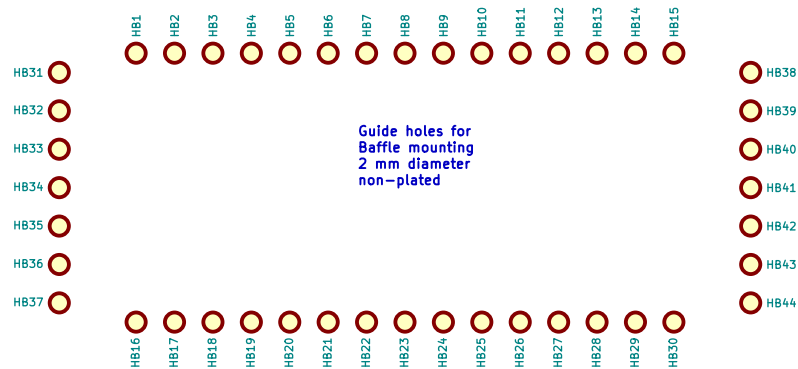
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Size: A4 Date: 2017-12-26

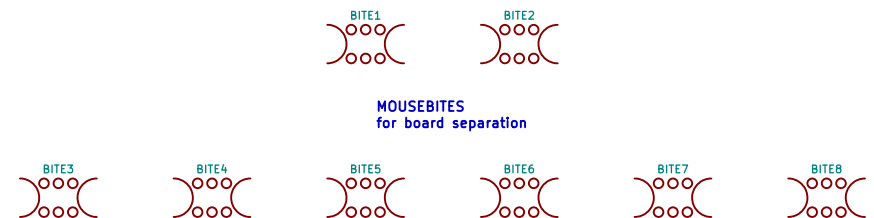
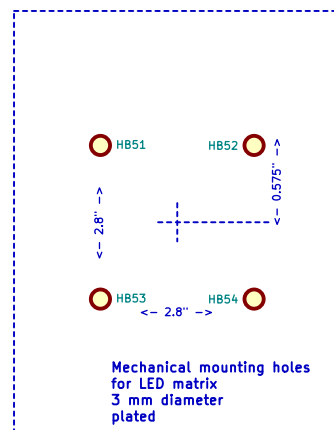
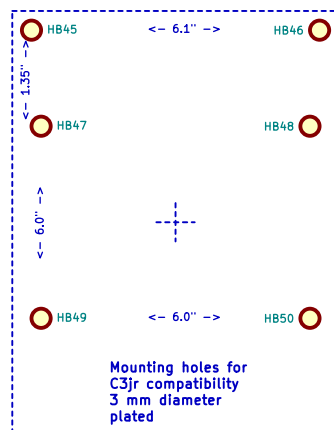
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Rev: rev 1

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Mounting holes for
piggy back attachment
of "snap-off" control board.
Use M3 HEX posts to connect
LED board to control board





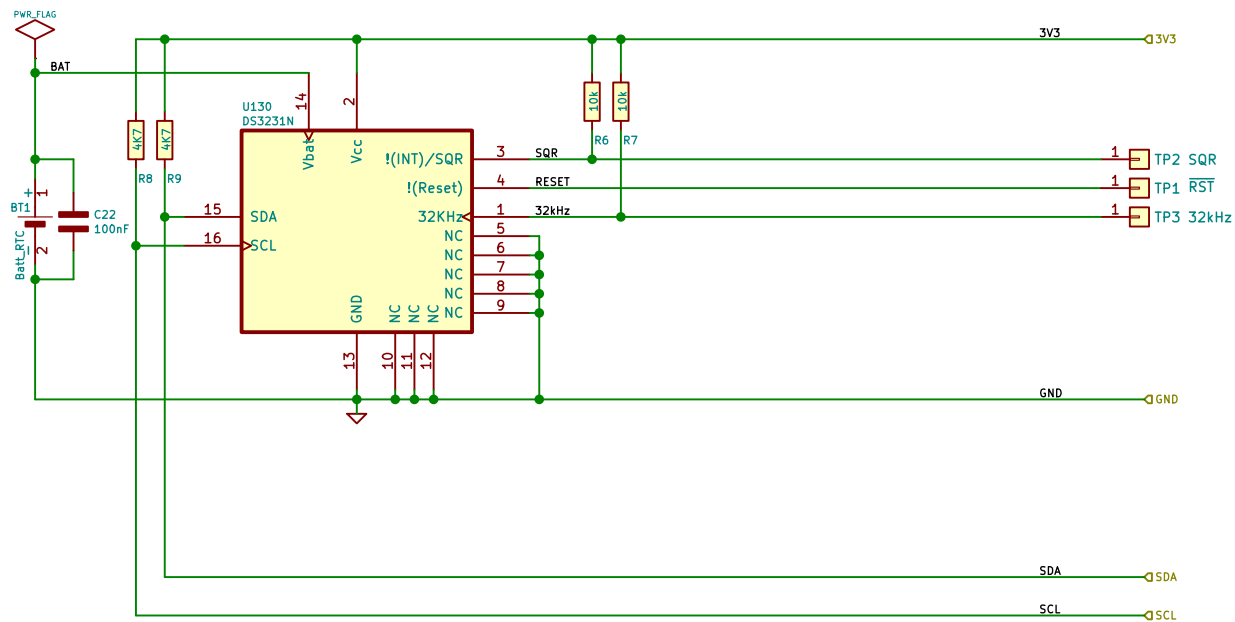

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Size: A4	Date: 2017-12-26	Rev: rev 1
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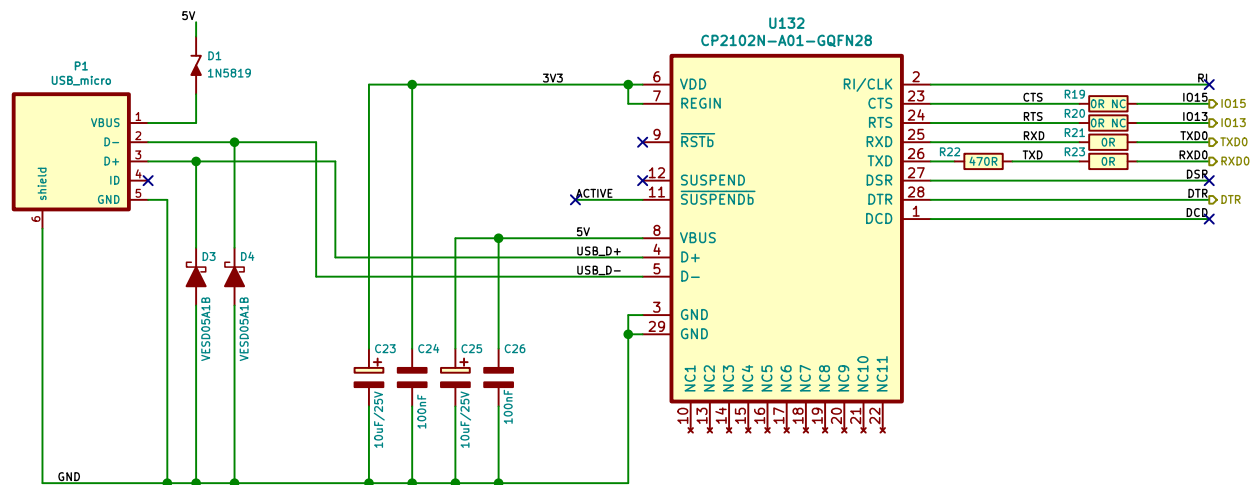
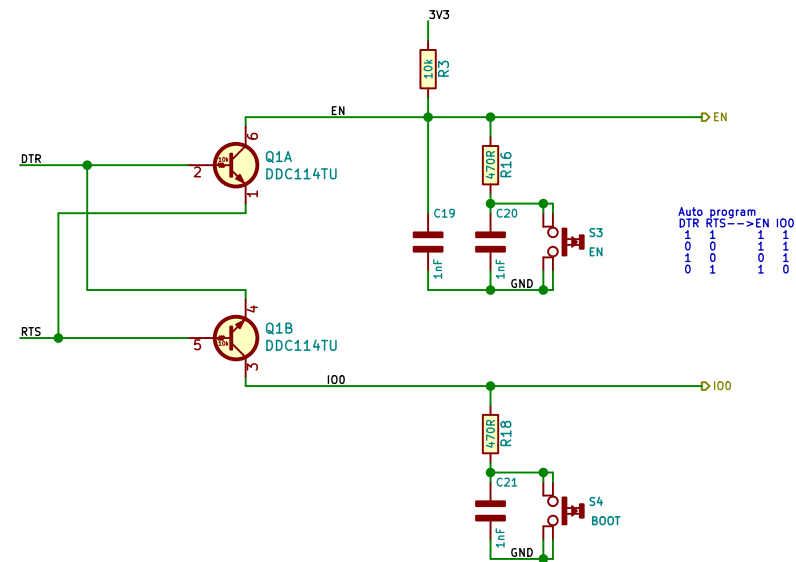
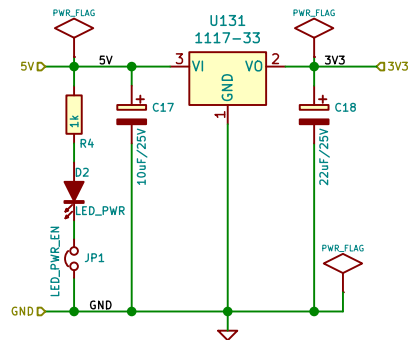
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Rev: rev 1

Id: 11/12



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Sheet: /esp_pwr_uart/

File: esp_pwr_uart.sch

Title: KlokTHREEjr

Size: A4 Date: 2017-12-26

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Rev: rev 1

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