

Unfiltered circuit area to be as small as possible; place components as close to barrel jack as possible.

SOT25 / SOT-753: 0.95 pitch, package 1.6mm width (pins 2.8)

Battery pack: 8V min, with 0.8V drop
 $V_{in,min} = 7.2V$

Input current:
 $V_{aux}: 770mA$
 5V2 supplies: 2.4A x2
 SEPIC: 1.95A @ 10V
 Total: $0.77+2.4+2.4 = 5.6A$

CMC footprint: pads 3.2×2.7 , $dx = 10.8$, $dy = 5.2$

ACM12V-701-2PL-TL00

SBR8U60P5-13

U1
 ZXCT1110

$I_{out} = 0.004 * V_{sense}$

$6A_{in} @ 3V_{out}$
 $V_{sense} = 6 * 0.01 = 60mV$
 $I_{out} = 0.004 * 60m = 240uA$
 $R = 3V / 240uA = 12.5k$
 Use 10k instead

D2
 15MQ060NTR

D3
 5.6V 50uA

INPUT_SENSE

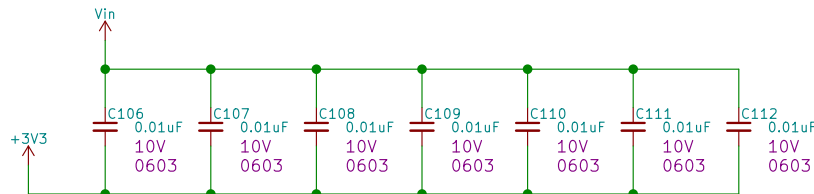
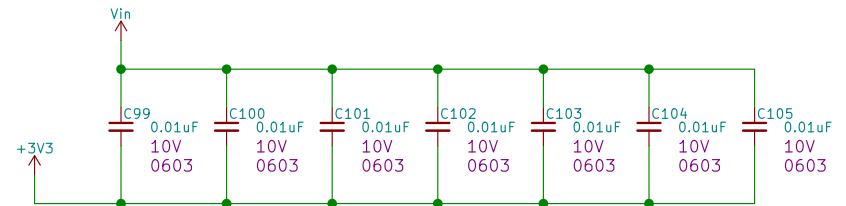
VCC

U2A

TS462CDT

ADC_VIN_I

ADC_VIN_V

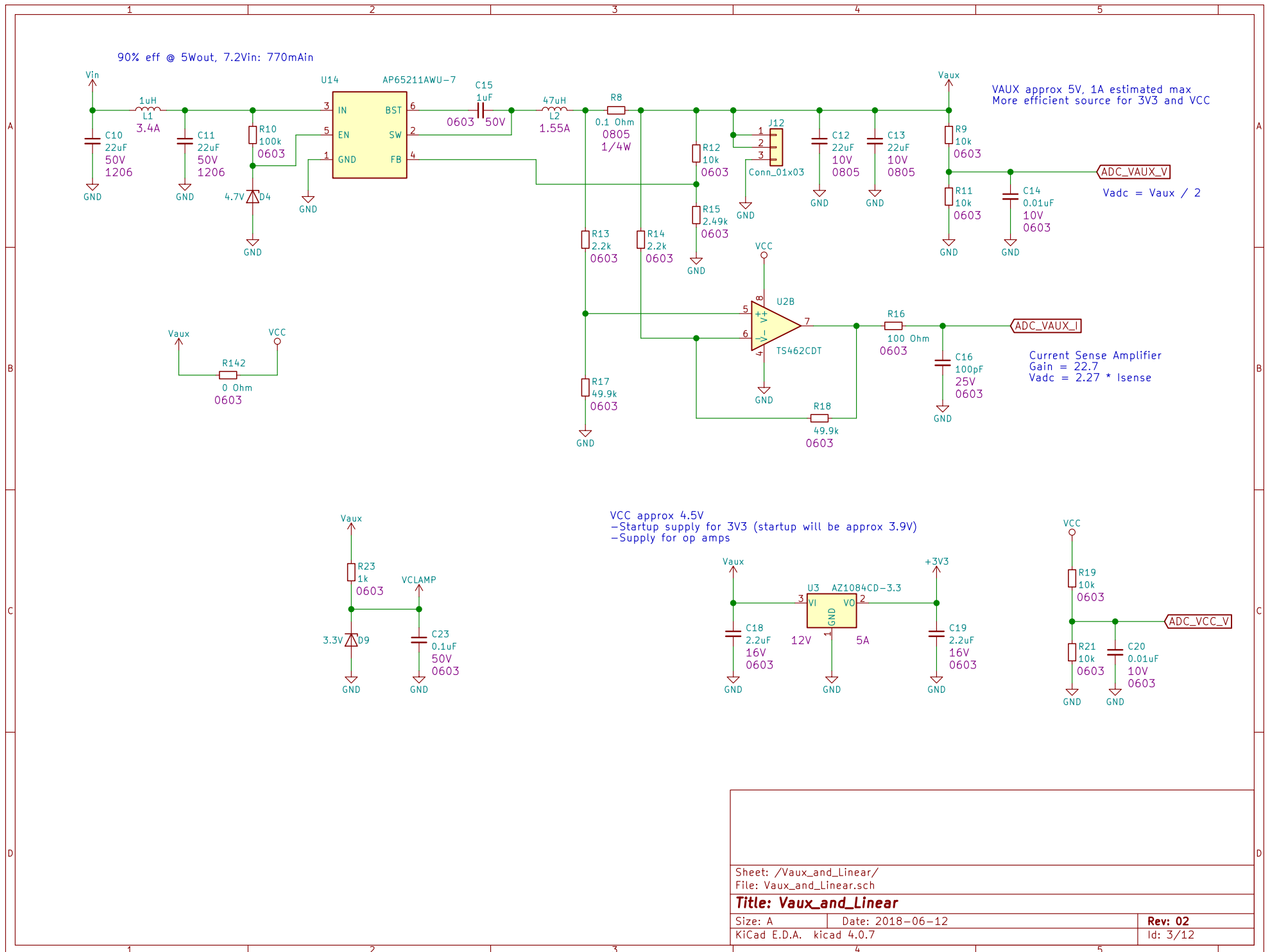


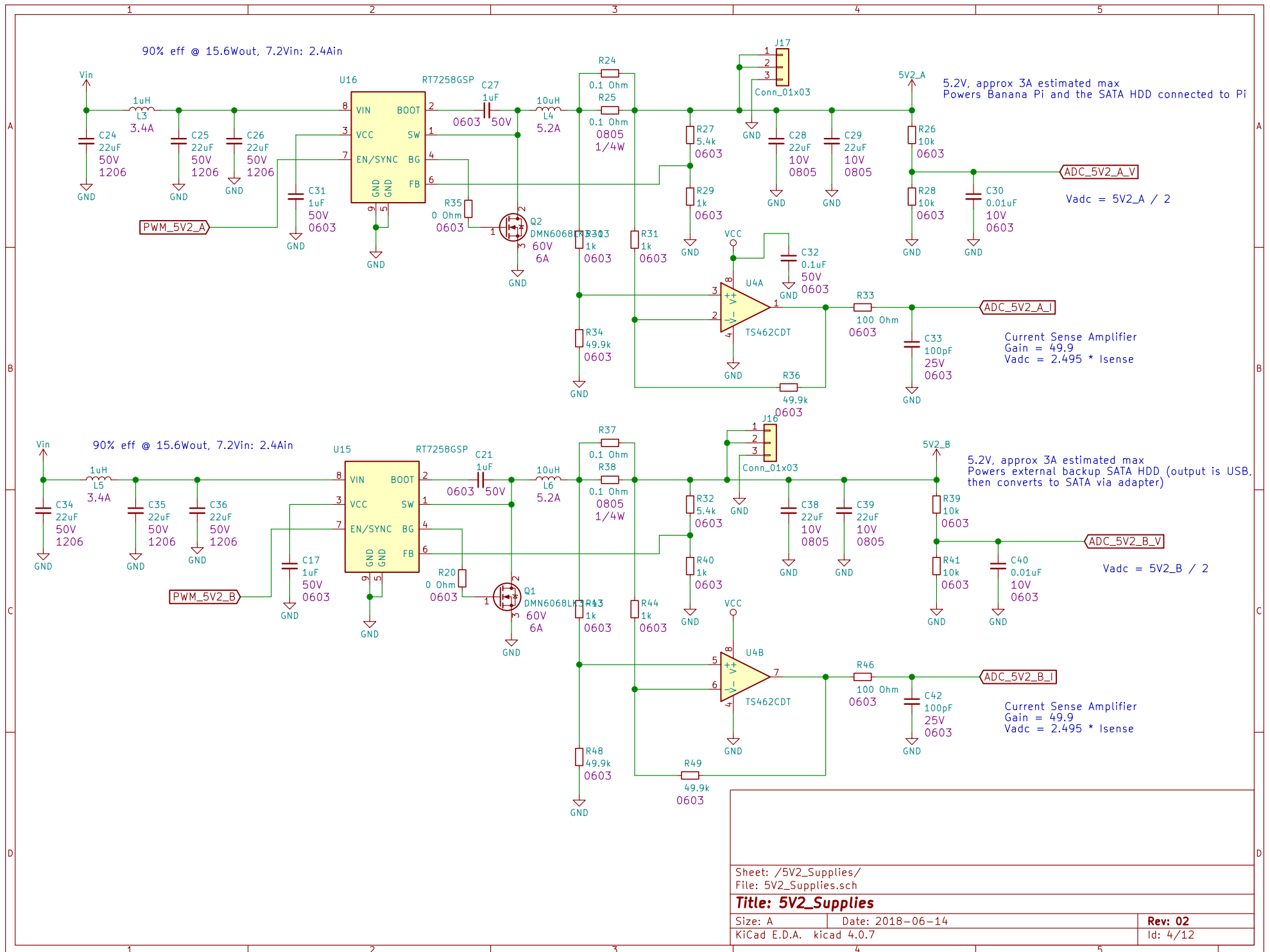
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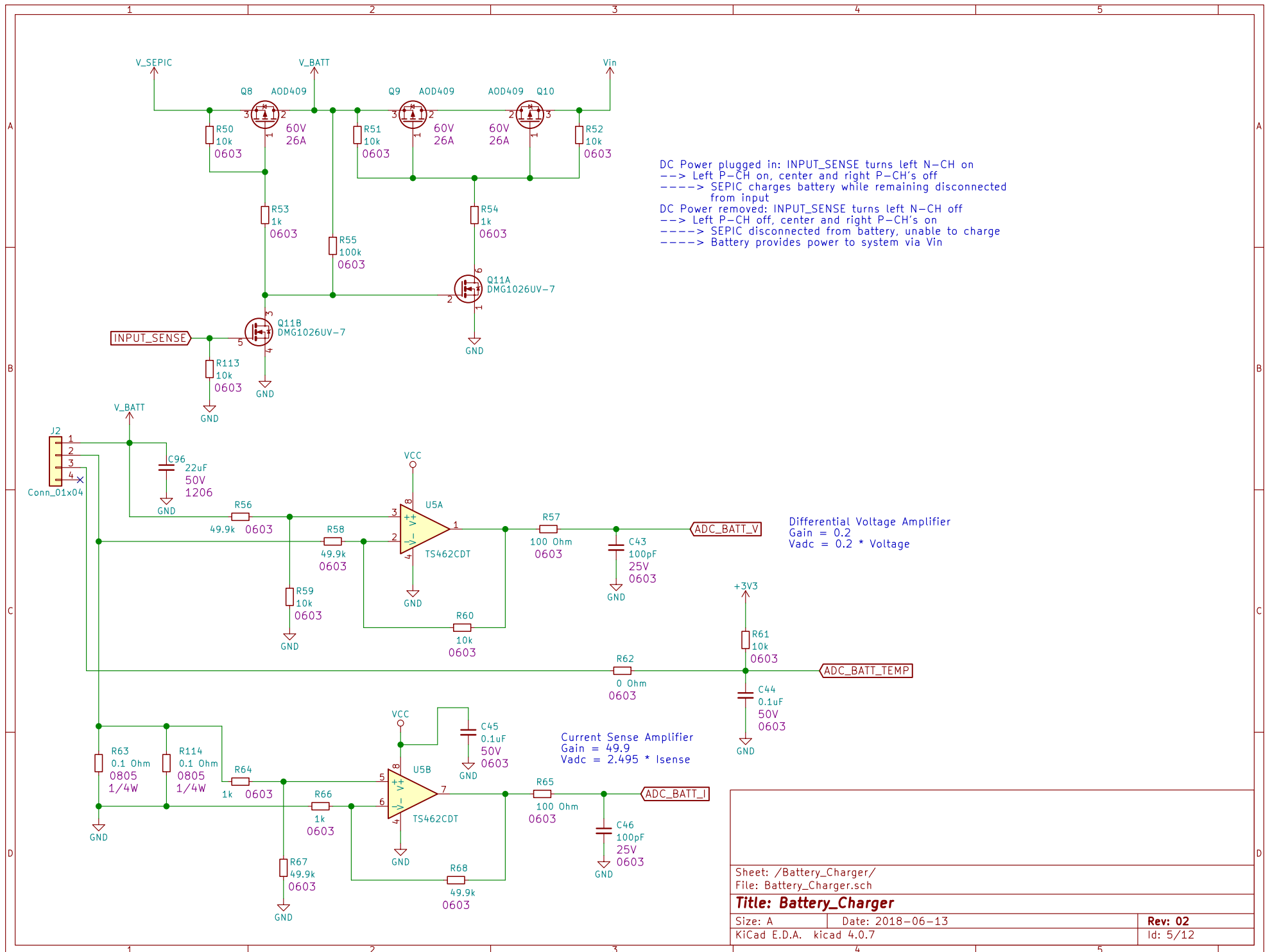
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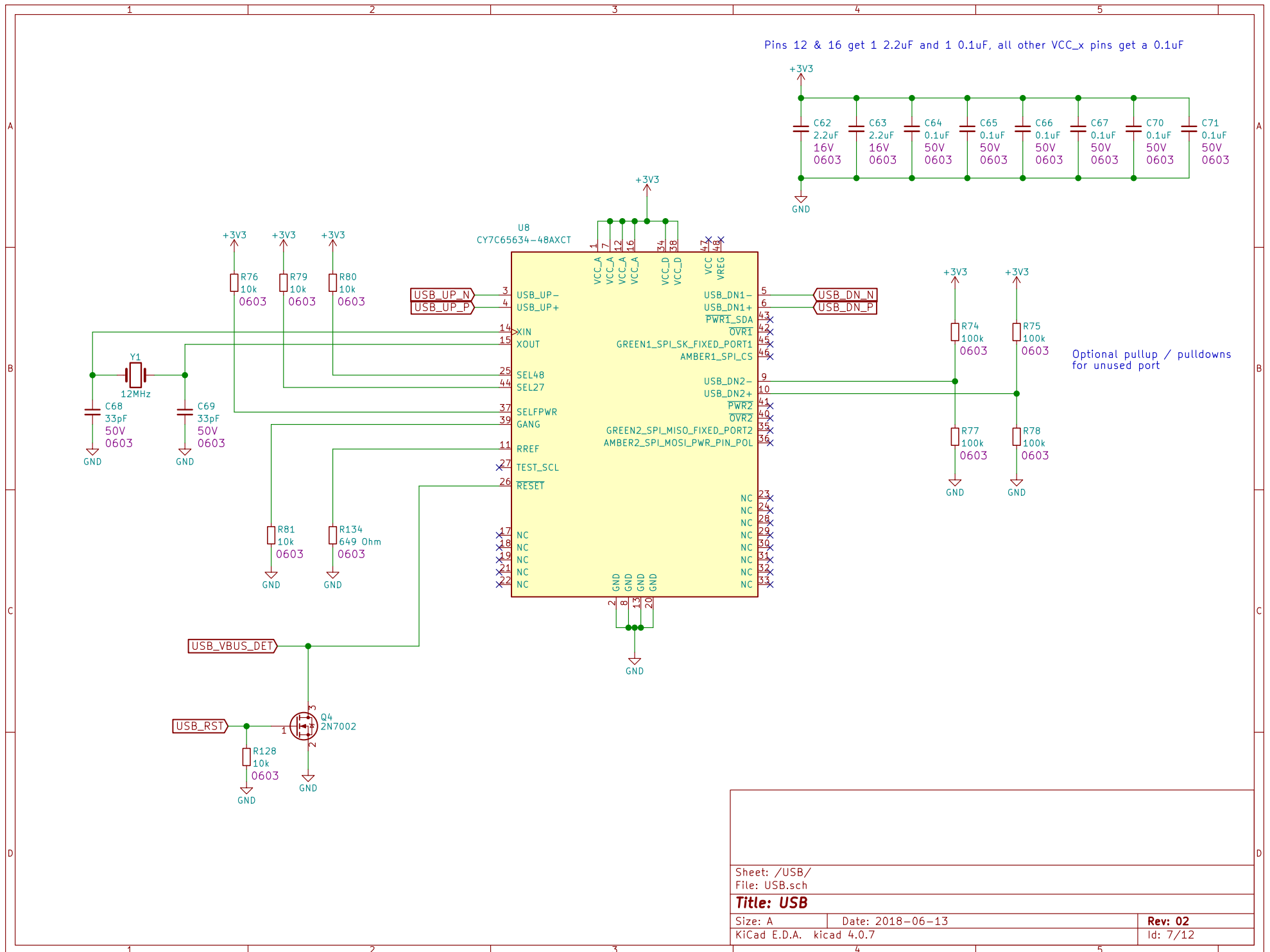
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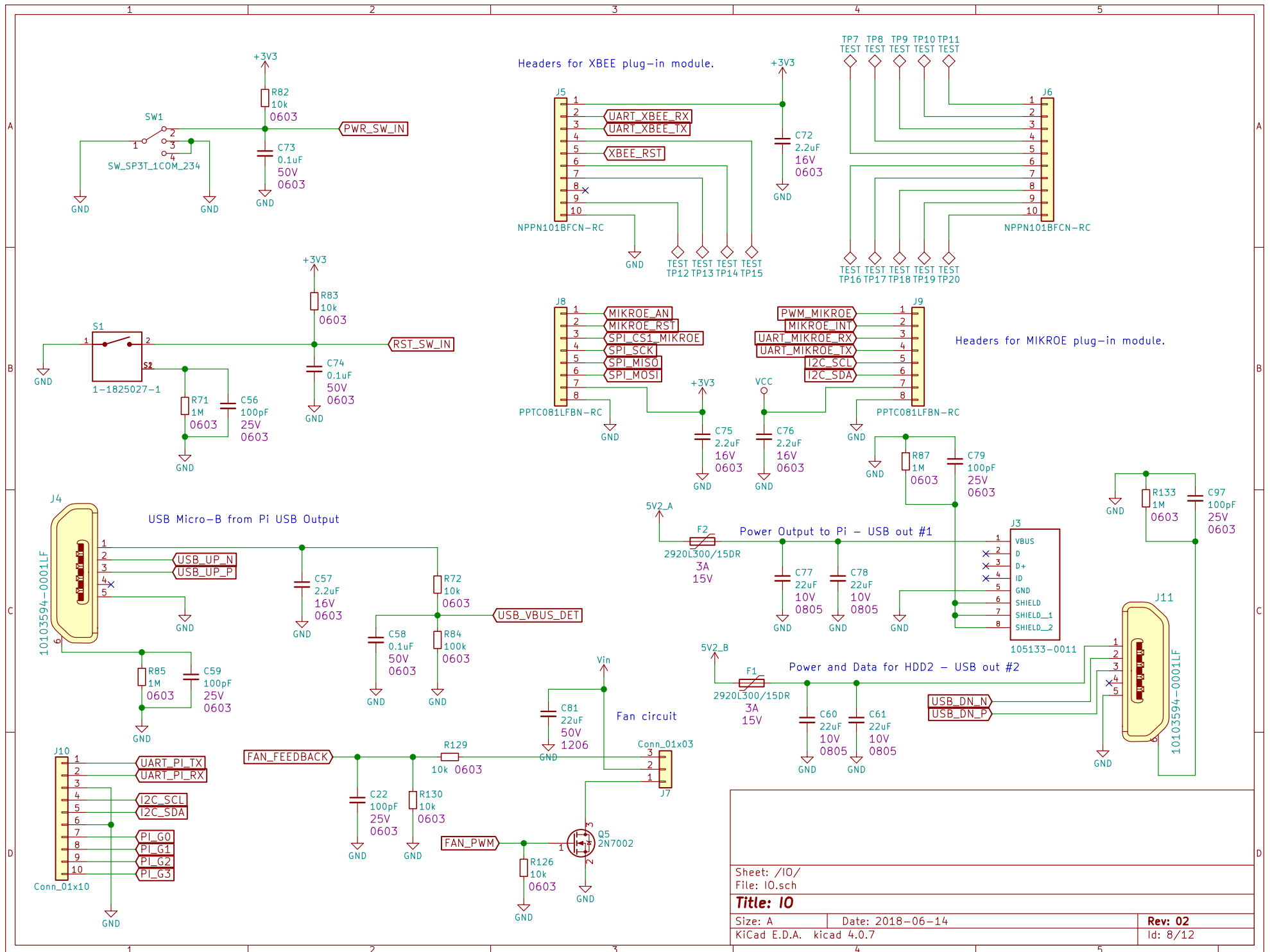
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