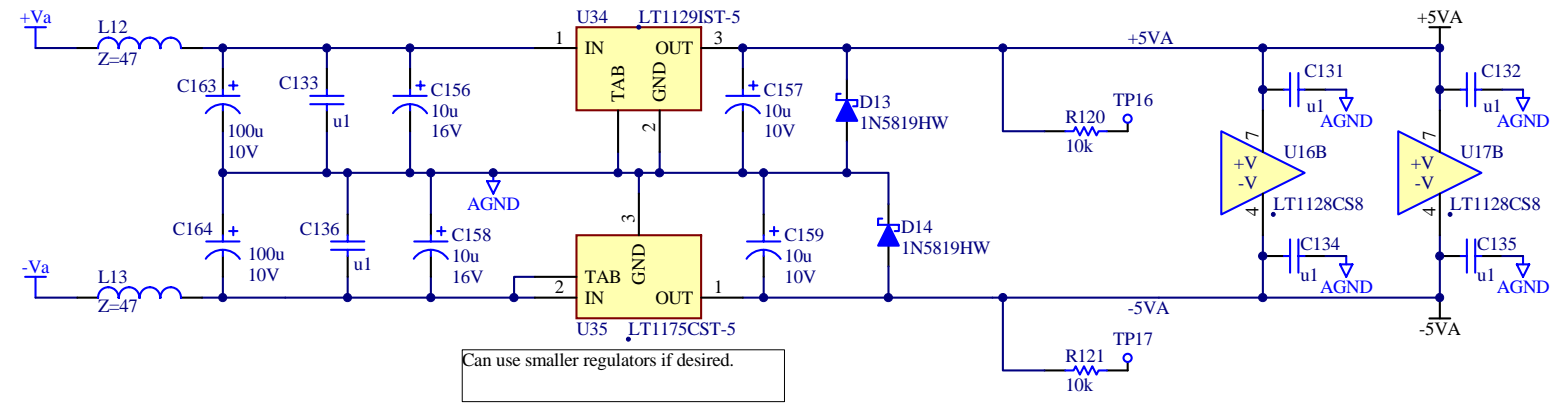


A

A



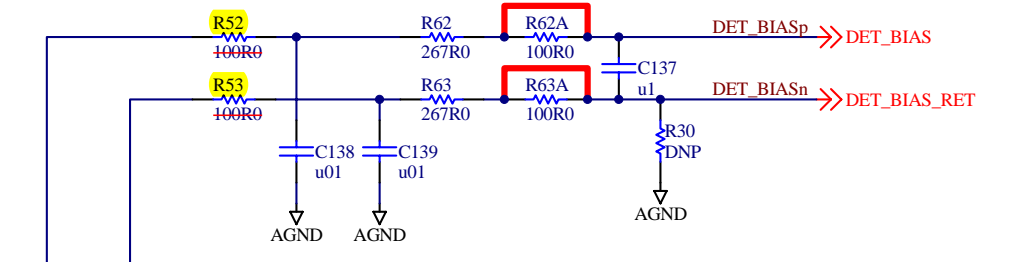
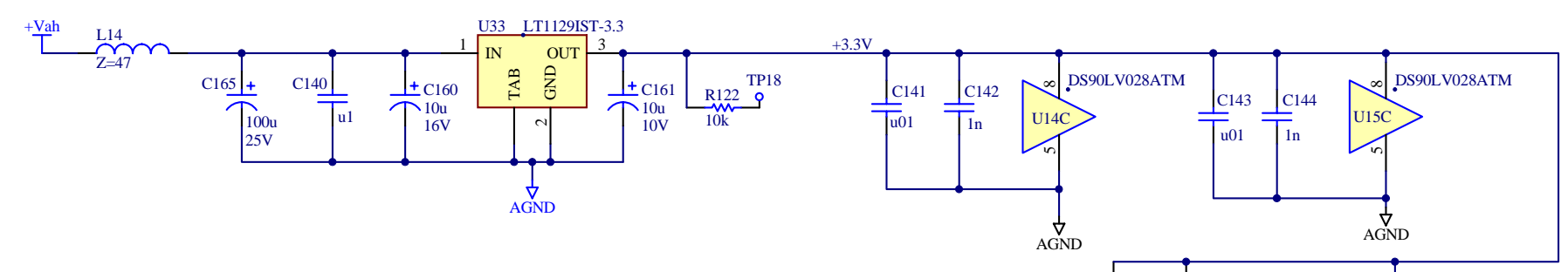
Can use smaller regulators if desired.

Changes part of ECO-035. Next build should use zero ohm resistors.
Rev D Issue 7 has R62A and R63A shorted

Resistance calculated at 41x32 pixels at 4.4 mOhms/pixel = 5.8 Ohms + 260 Ohm cable

B

B



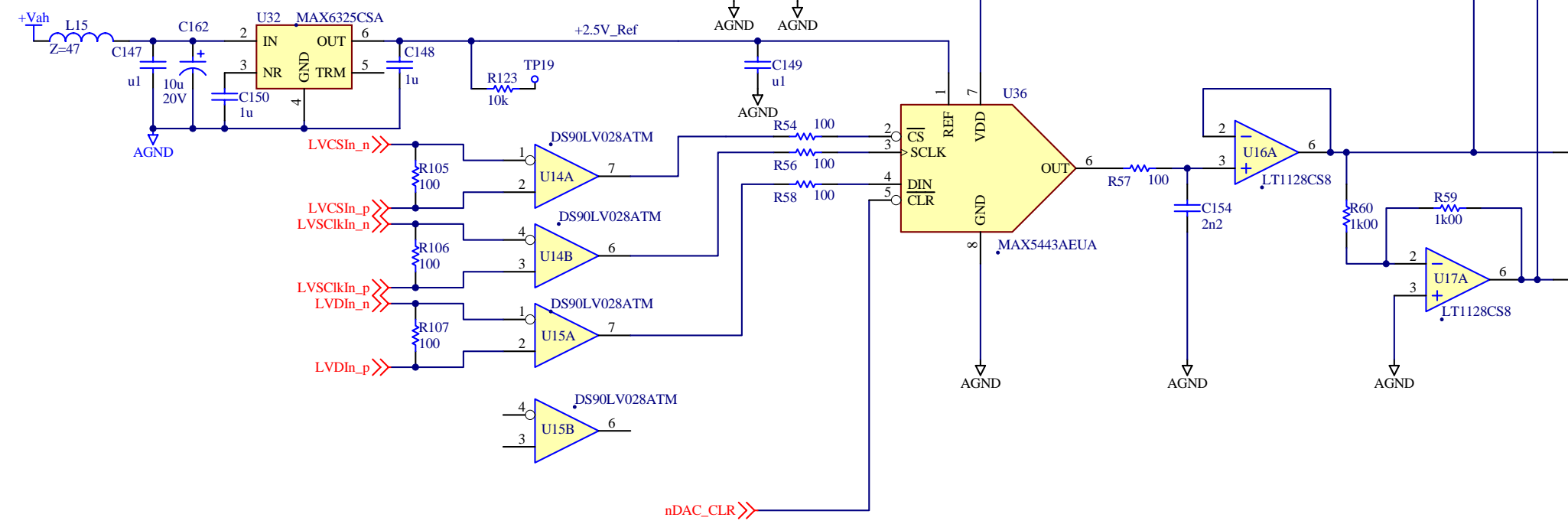
Rev D Issue 8 - DNP for R64B, R65B, C152 & C153

Resistance calculated at 41x32 pixels at 3 Ohms/pixel = 3936 Ohms

We recommend these common mode filter capacitors be moved to the Batwing PCB (past the Cryowires).

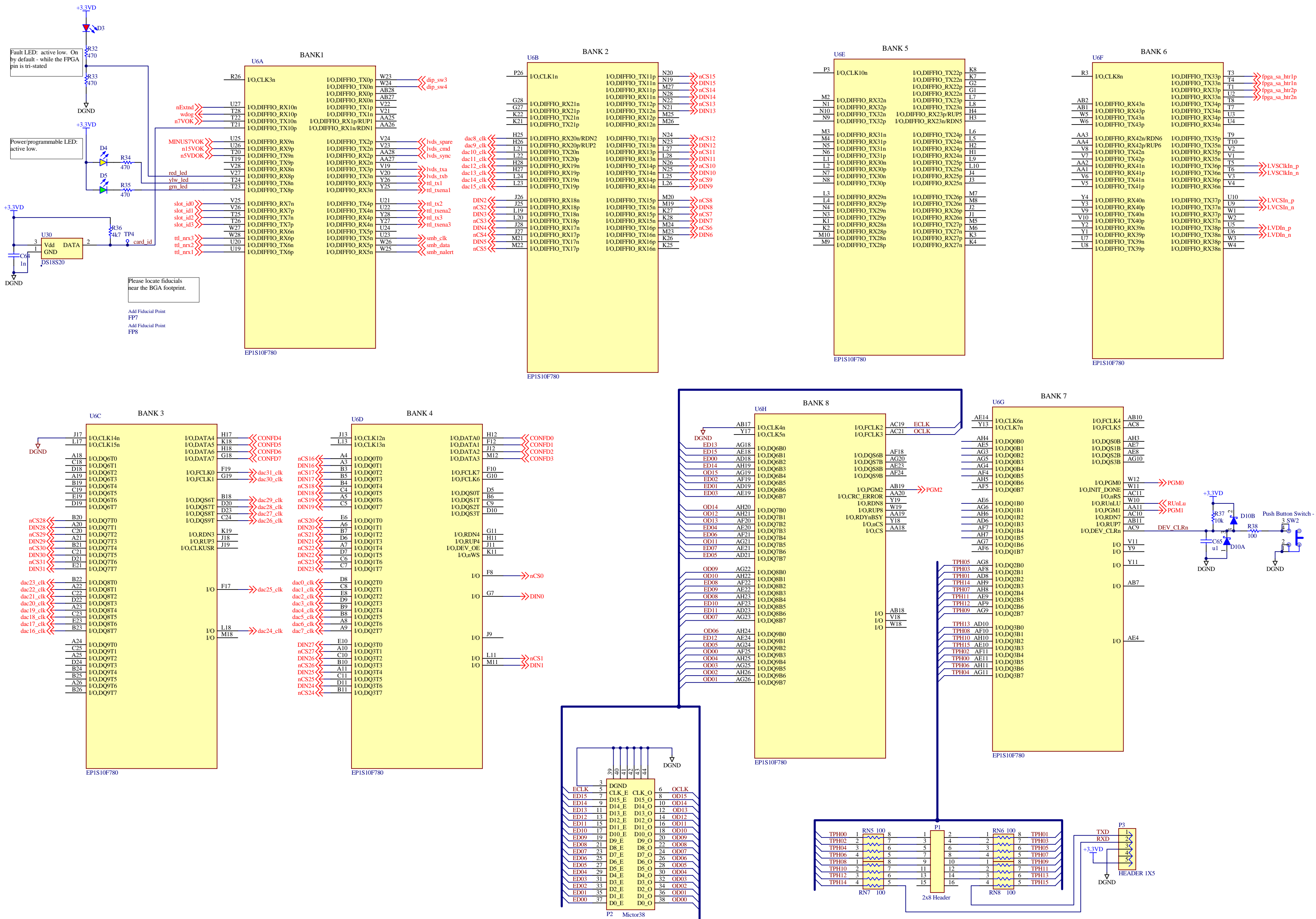
C

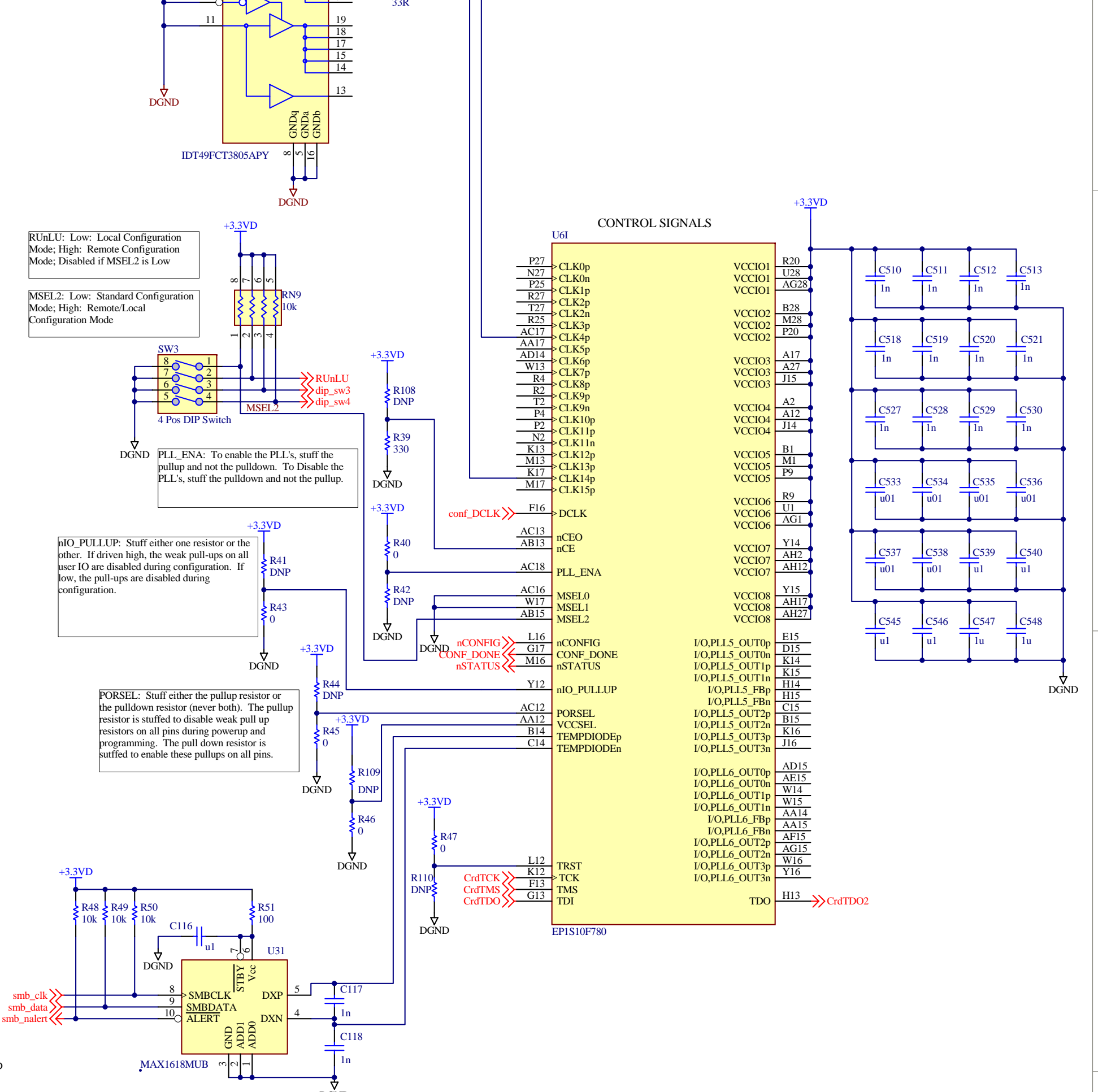
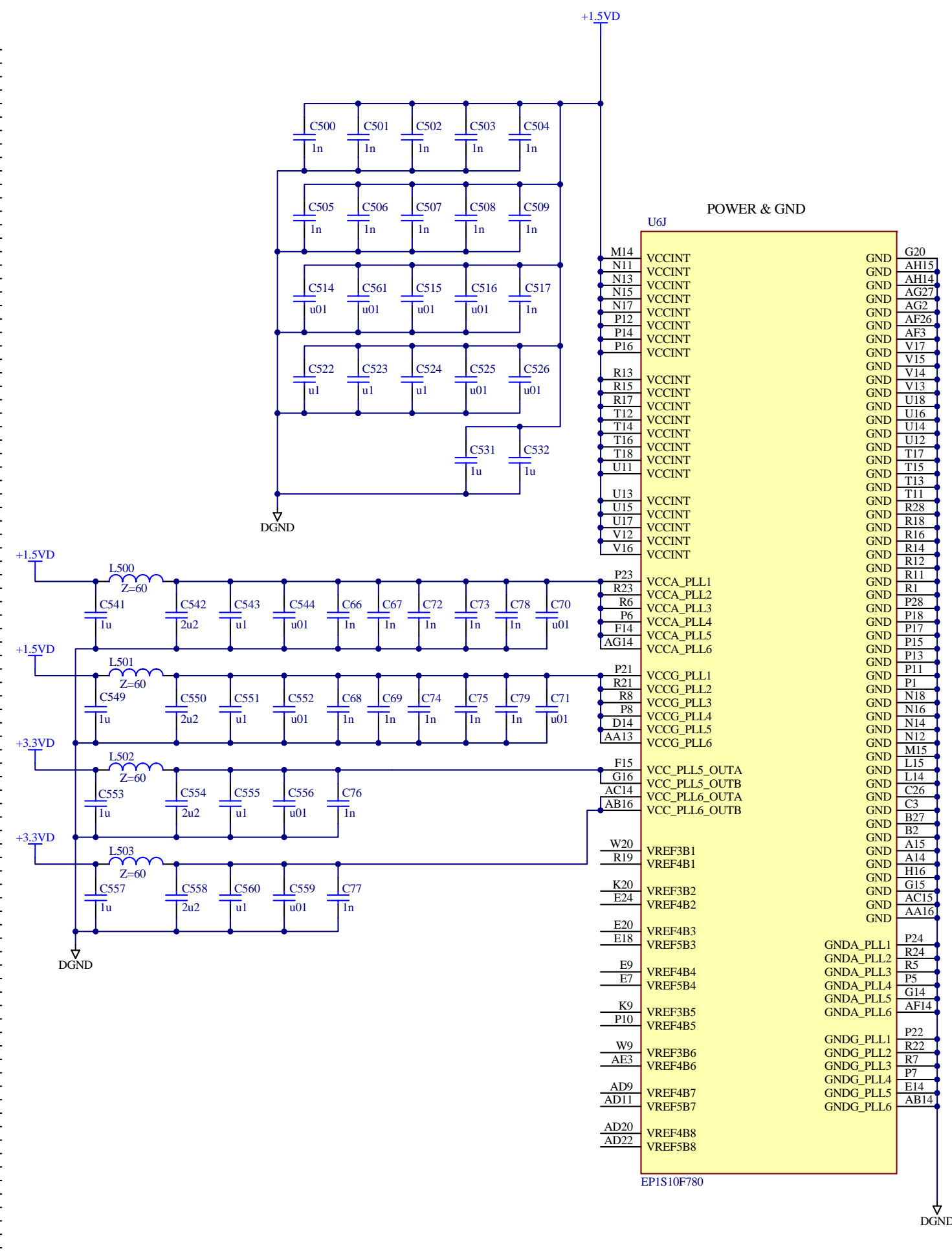
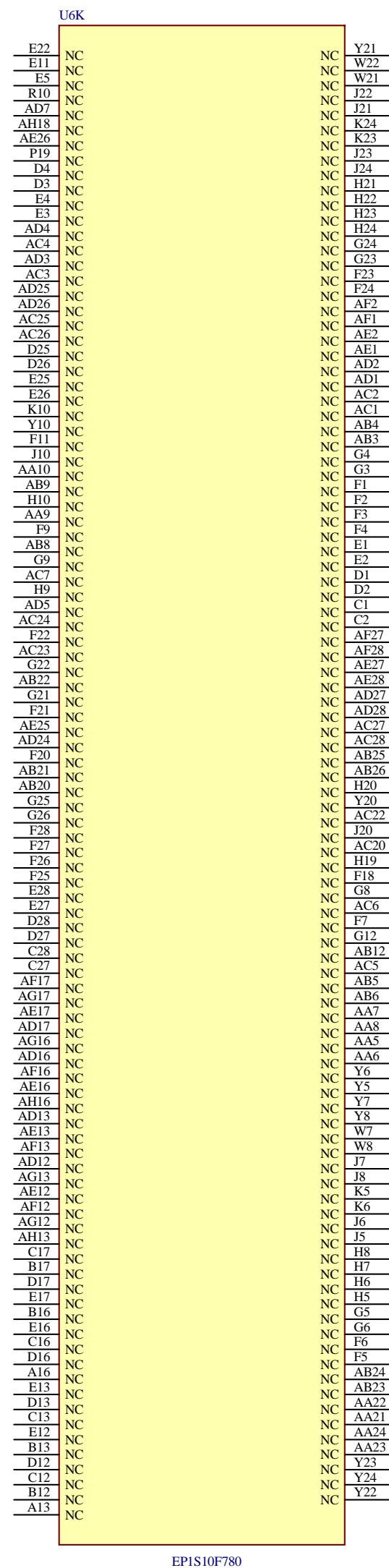
C

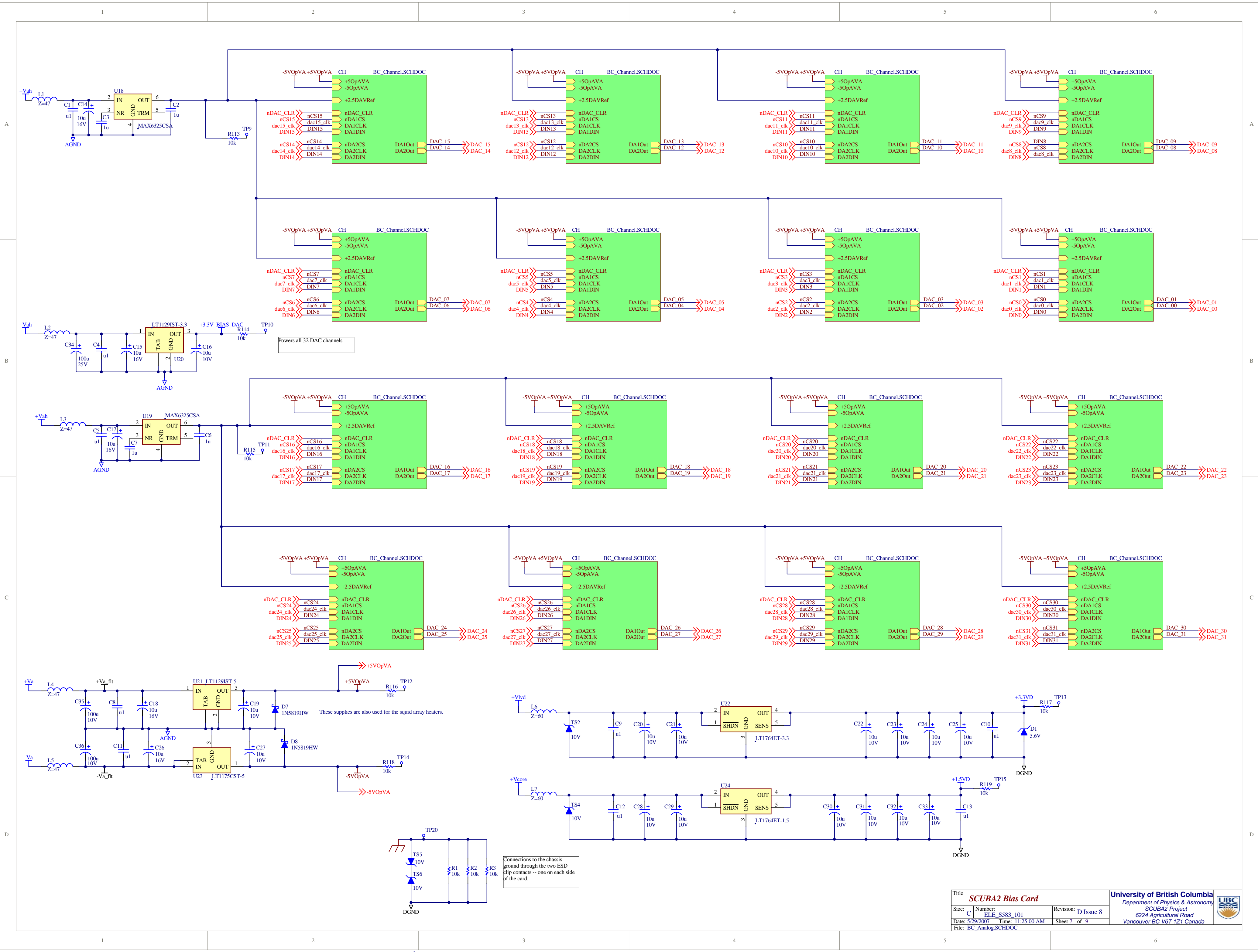


D

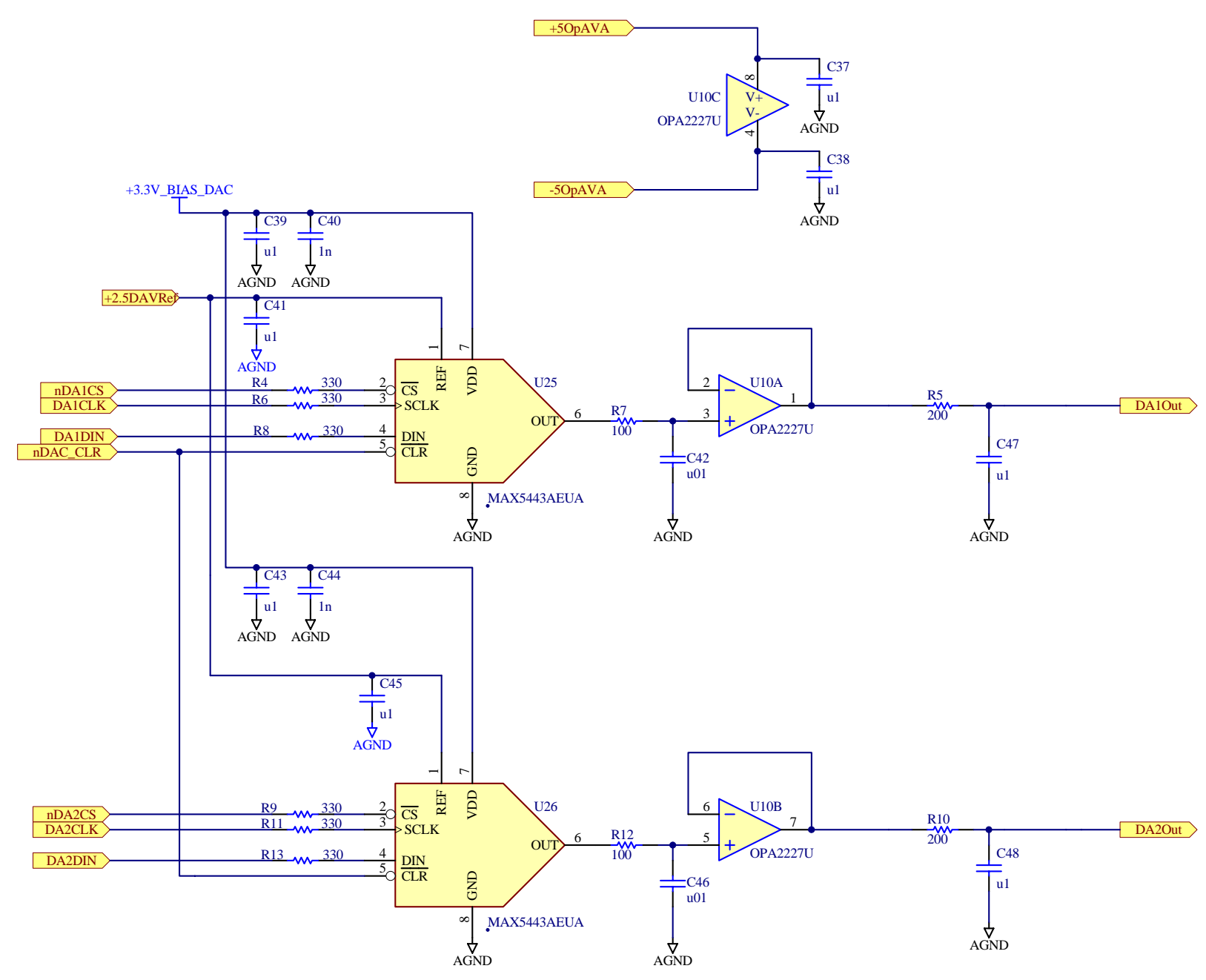
D

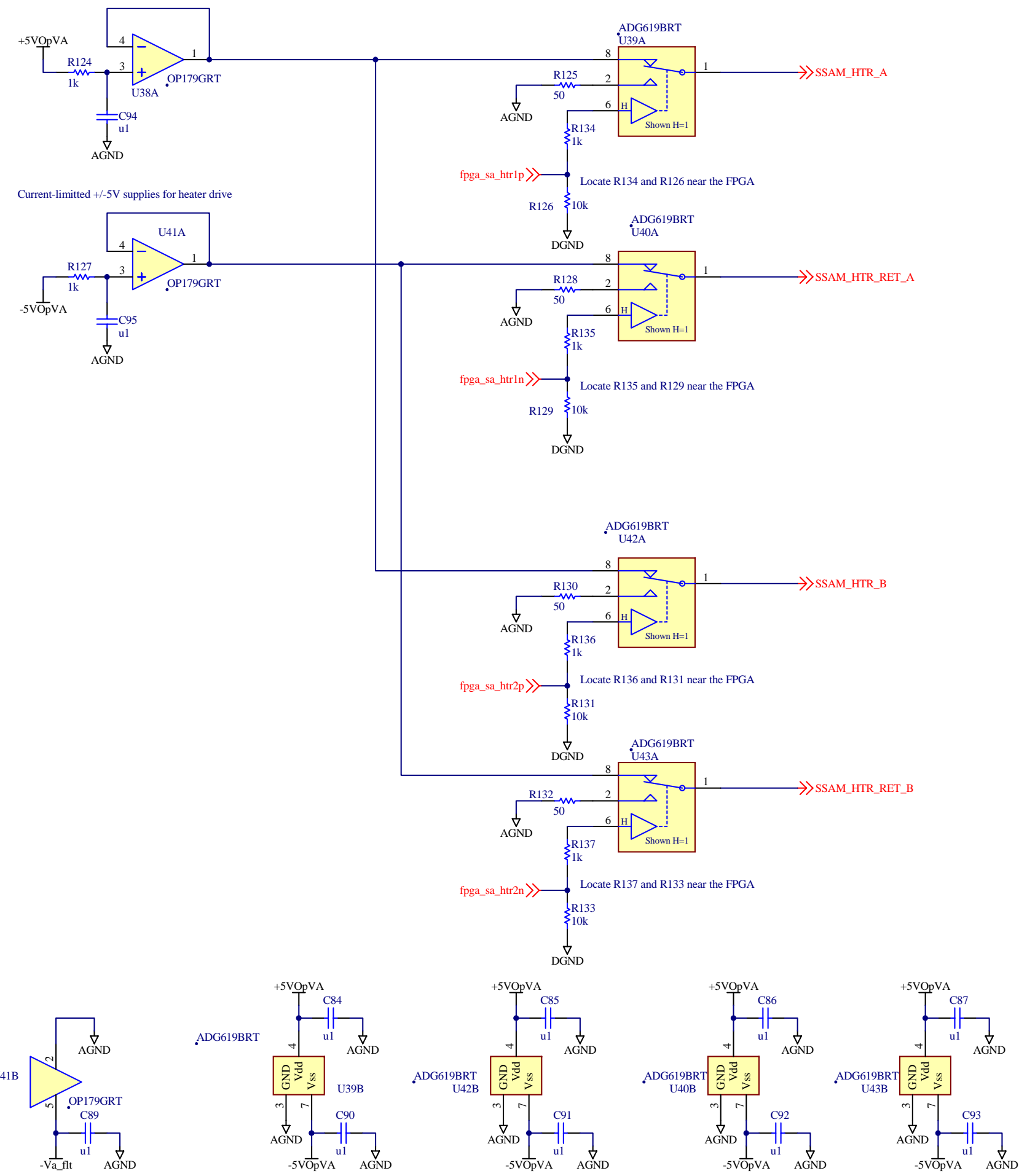


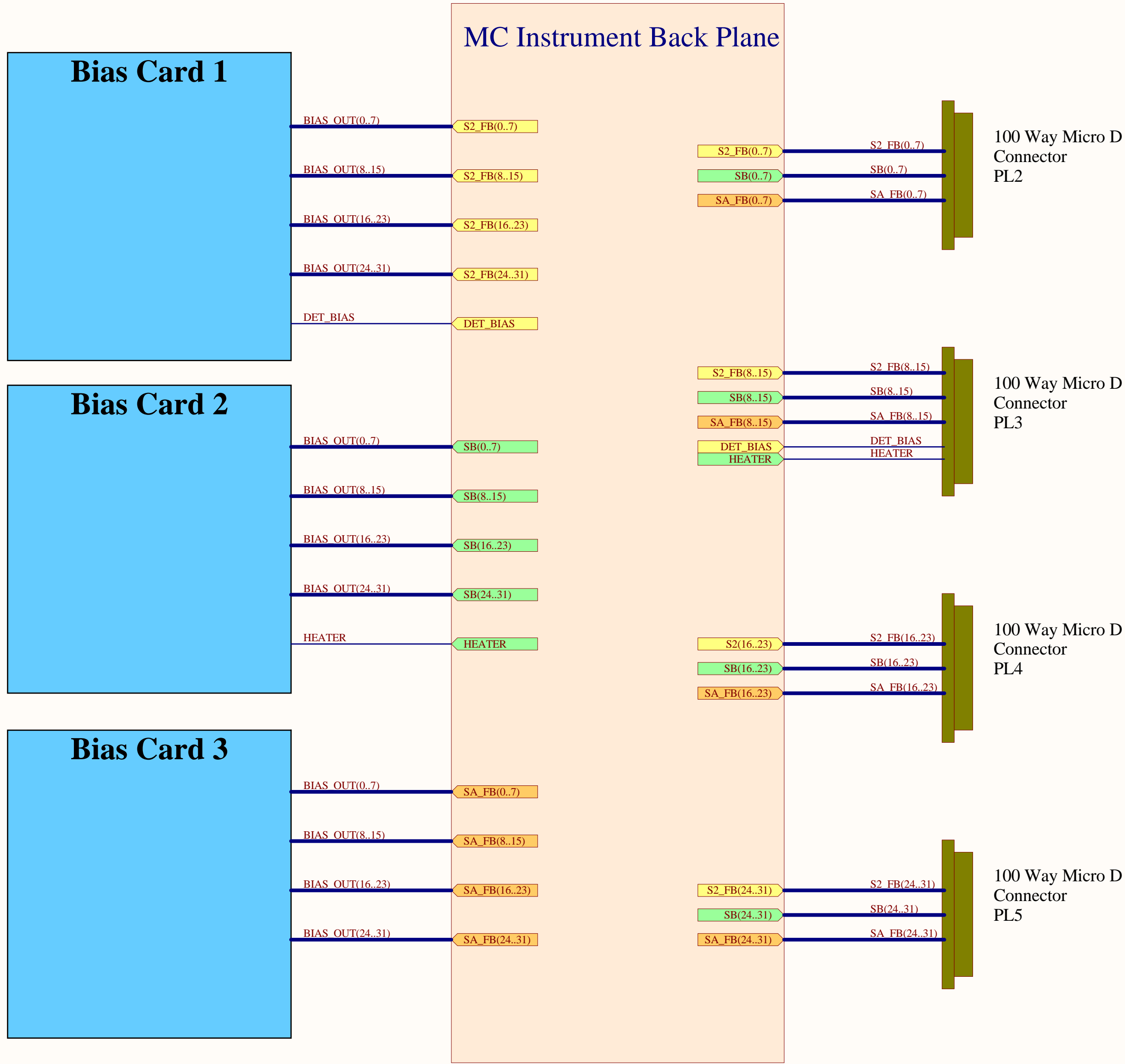




Connections to the chassis ground through the two ESD clip contacts -- one on each side of the card.







Bias Card 1:

 The outputs from Bias Card 1 supply the DC flux offsets for the 2nd stage feedback (to bias the 2nd stage SQUIDs).
 BIAS_OUT(0..31) => S2_FB(0..31)
 Additionally Bias Card 1 supplies the detector bias (DET_BIAS).

Bias Card 2:

 Bias Card 2 is responsible for supplying the 2nd stage SQUID current-biases.
 BIAS_OUT(0..31) => SB(0..31)
 Additionally Bias Card 2 supplies the HEATER_BIAS

Bias Card 3:

 Bias card 3 supplies the DC flux offsets for the for the SQUID series array feedbacks.
 BIAS_OUT(0..31) => SA_FB(0..31)

| | | |
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| Title | | |
| Size | Number | Revision |
| A3 | | |
| Date: | 5/29/2007 | Sheet of |
| File: | C:\Scuba2\bias_overview.SchDoc | Drawn By: |