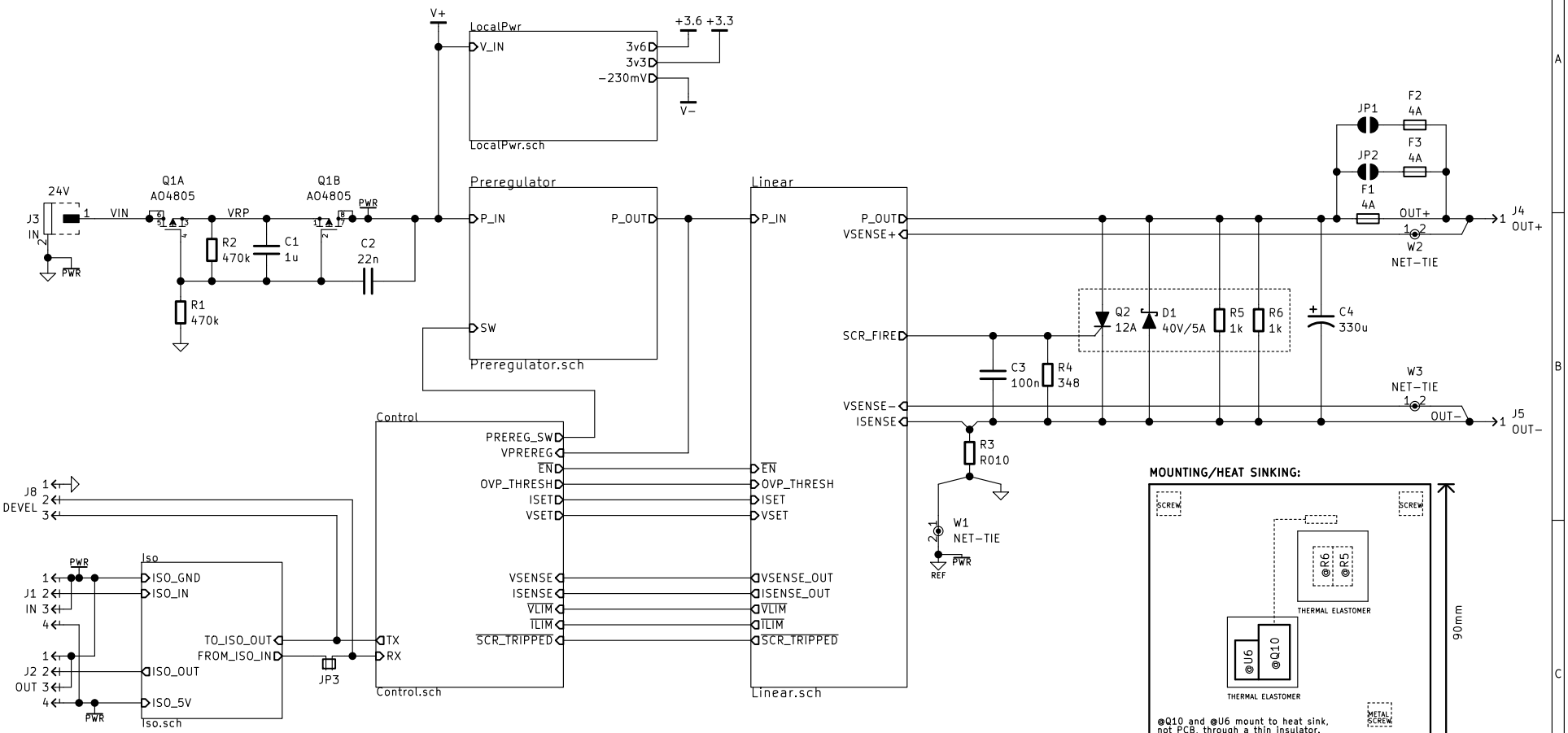
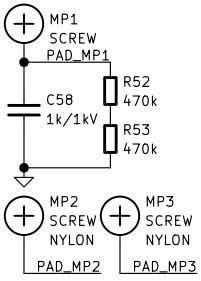


LOOP INTERFACE

The mainboard and all modules must be joined in a loop, output of one connected to the input of the next. The sequence will determine the logical ordering of the modules as seen by the user interface.

Mating connector: A30980−ND



Thermal elastomer pads can be cut from one of:
t−Global H48−6−21−15−13−1A (1168−1700−ND)
t−Global H48−6−25−25−9 (1168−1703−ND)
or similar compressible materials.

Place an insulating plastic sheet between the PCB and the heat sink, with minimal cutouts for passthrough.

Top two screws must be non−conductive.

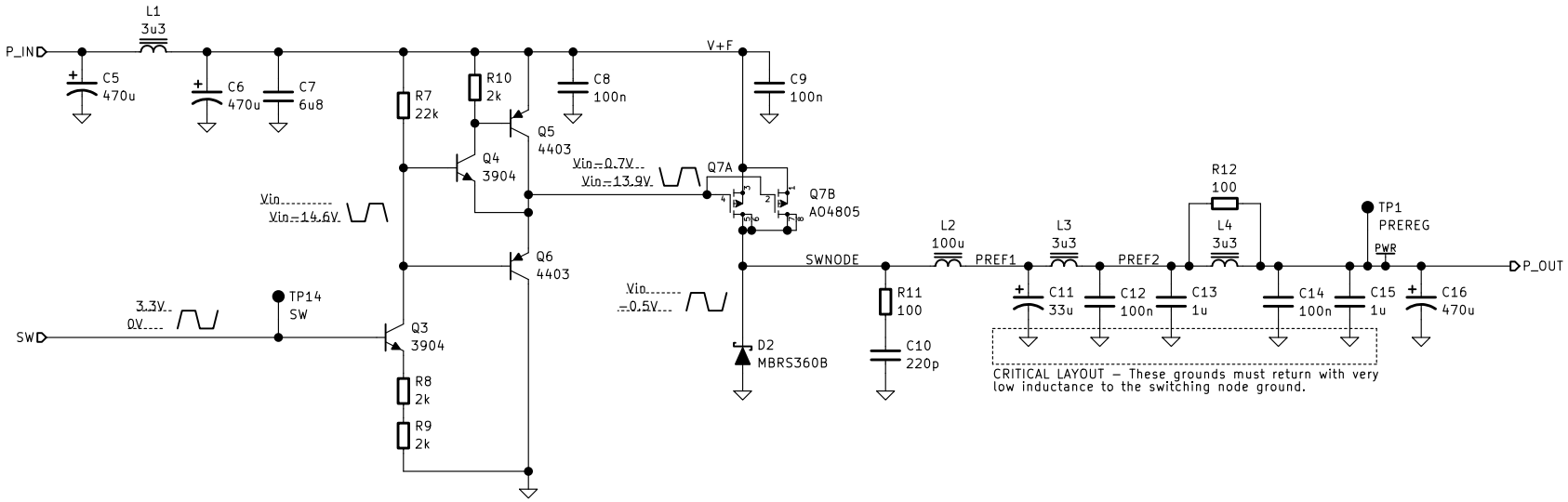
NIH labs SYM1

MOD12003

Sheet: /
File: mod12003.sch

Title: 20V, 3A hybrid power supply module

Size: A	Date: 2015−08−18	**Rev:**
KiCad E.D.A. kicad (2015−08−25 BZR 5771, Git b45910d)−product		Id: 1/6



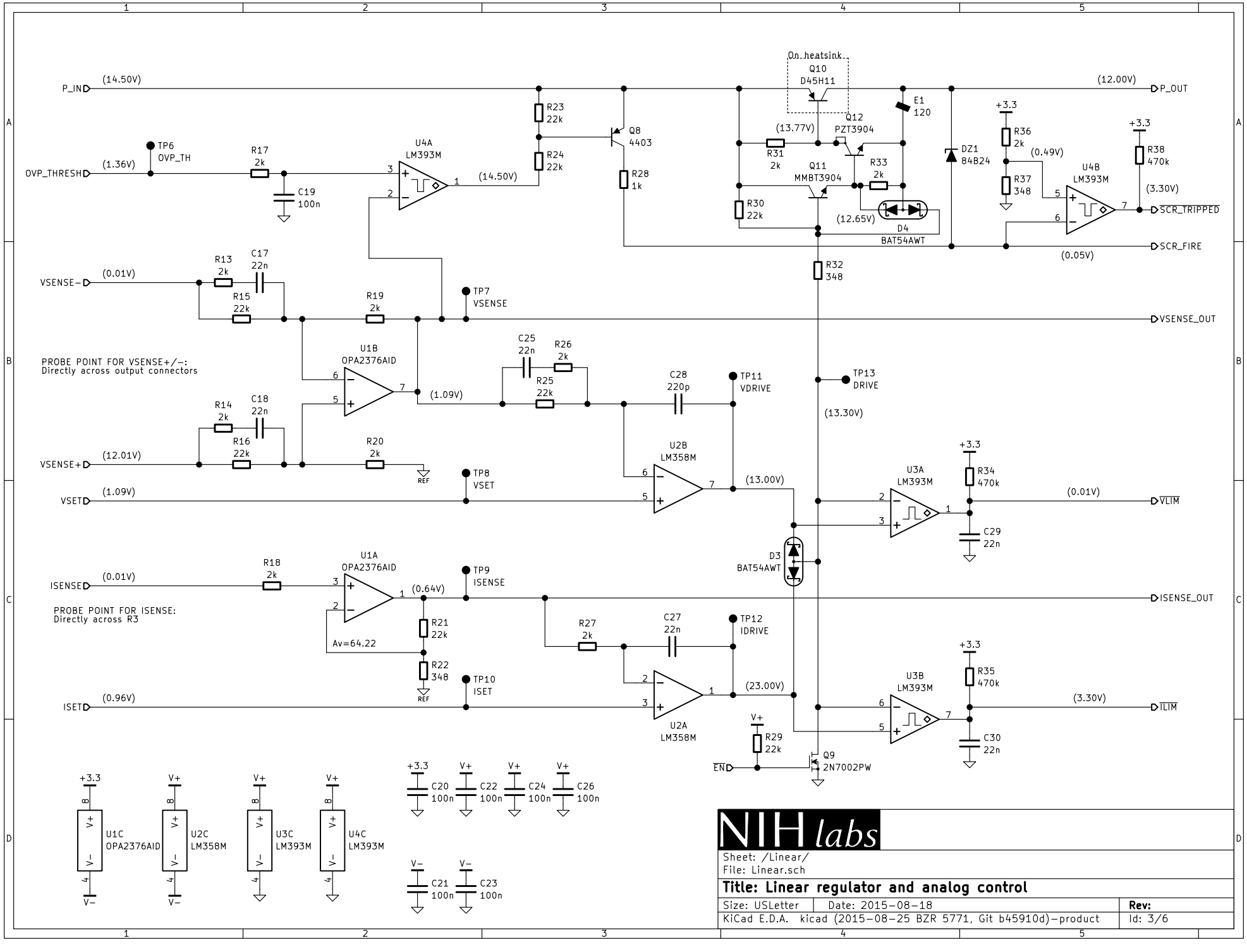
NIH labs

Sheet: /Preregulator/
File: Preregulator.sch

Title: Buck preregulator

Size: A	Date: 2015-08-18	**Rev:**
KiCad E.D.A. kicad (2015-08-25 BZR 5771, Git b45910d)-product		Id: 2/6

Test conditions:
Vout = 12V Vovp = 15V
Iout = 1A Ilim = 1.5A

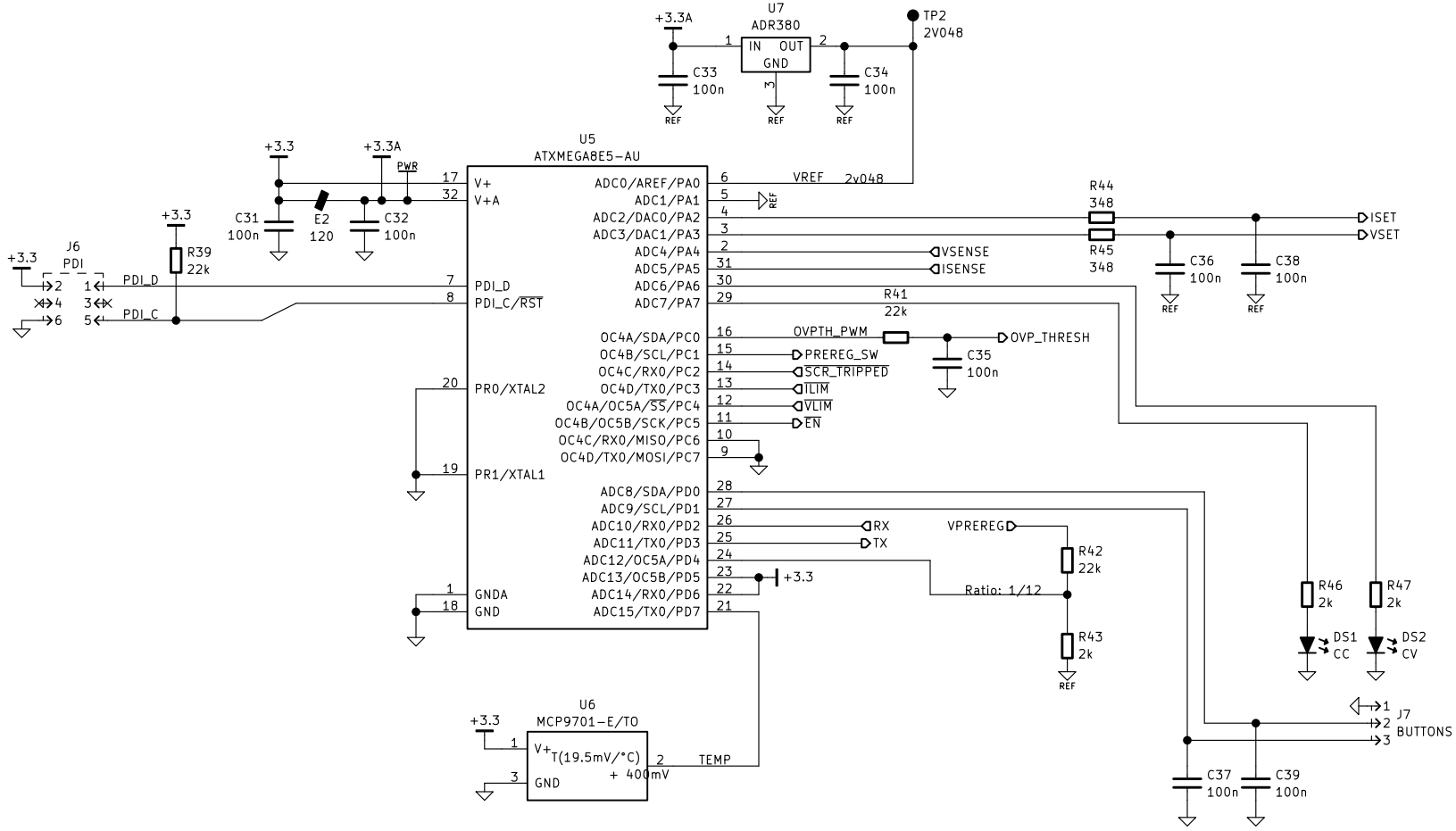


NIH labs

Sheet: /Linear/
File: Linear.sch

Title: Linear regulator and analog control

Size: USLetter	Date: 2015-08-18	**Rev:**
KiCad E.D.A. kicad (2015-08-25 BZR 5771, Git b45910d)-product		Id: 3/6

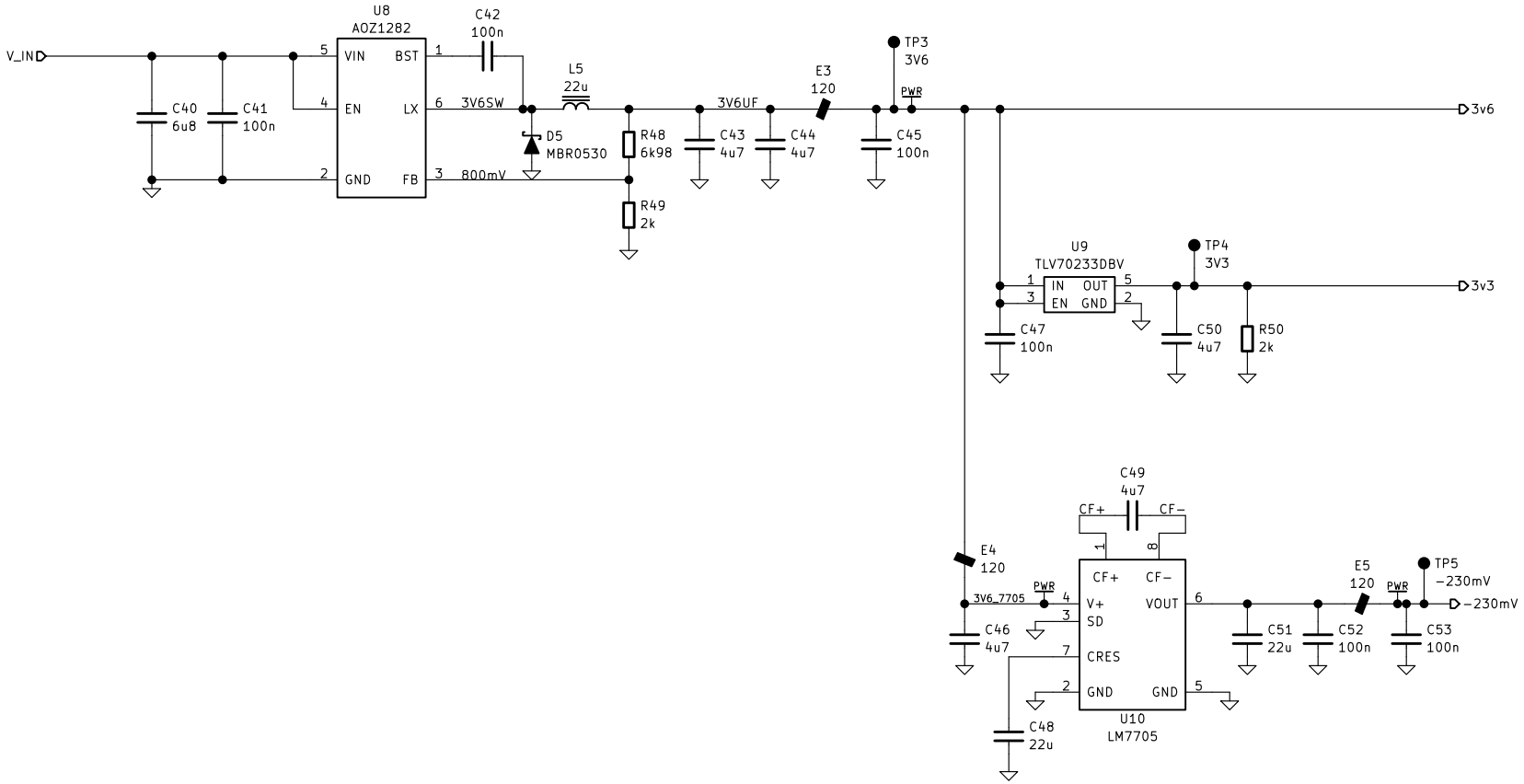


NIH labs

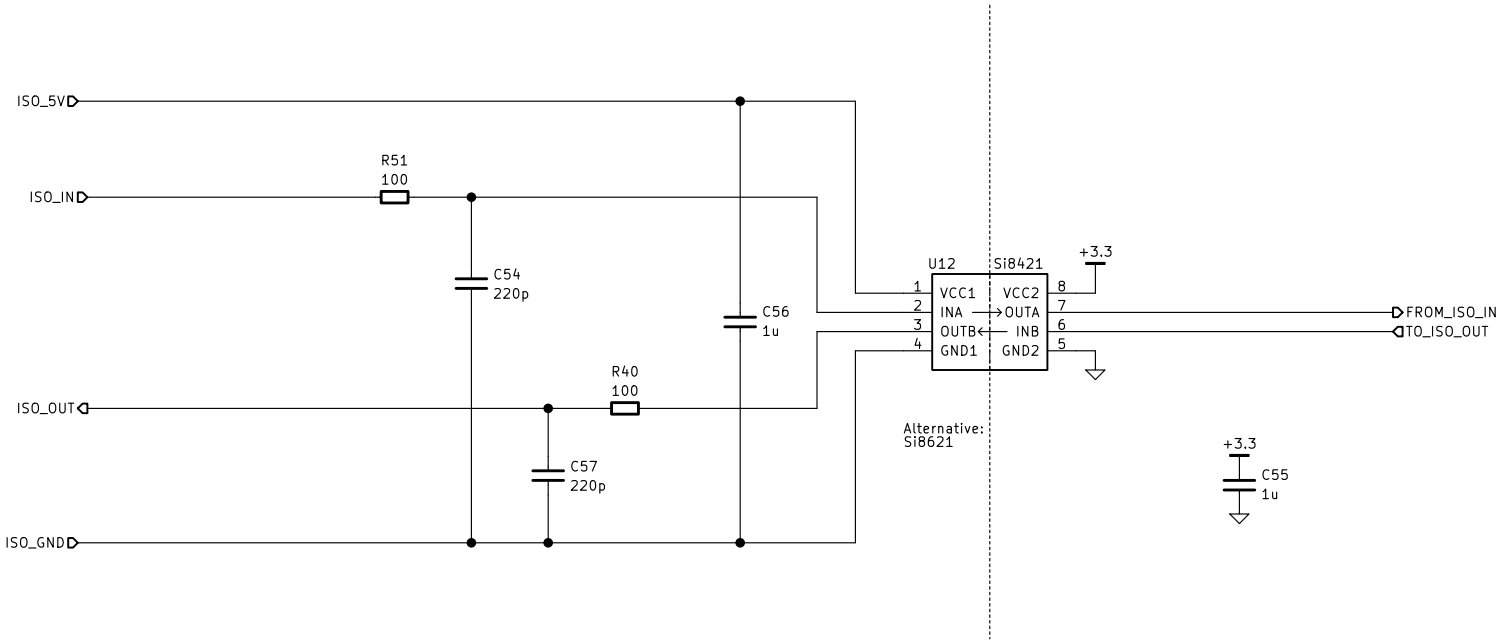
Sheet: /Control/
File: Control.sch

Title: Microcontroller, A–D, D–A

Size: USLetter	Date: 2015-08-18	**Rev:**
KiCad E.D.A. kicad (2015-08-25 BZR 5771, Git b45910d)-product		Id: 4/6



NIH labs		
Sheet: /LocalPwr/ File: LocalPwr.sch		
Title: Local power supplies		
Size: A	Date: 2015-08-18	**Rev:**
KiCad E.D.A. kicad (2015-08-25 BZR 5771, Git b45910d)-product		Id: 5/6



NIH labs

Sheet: /Iso/
File: Iso.sch

Title: Isolated control interface

Size: USLetter	Date: 2015-08-18	**Rev:**
KiCad E.D.A. kicad (2015-08-25 BZR 5771, Git b45910d)-product		Id: 6/6