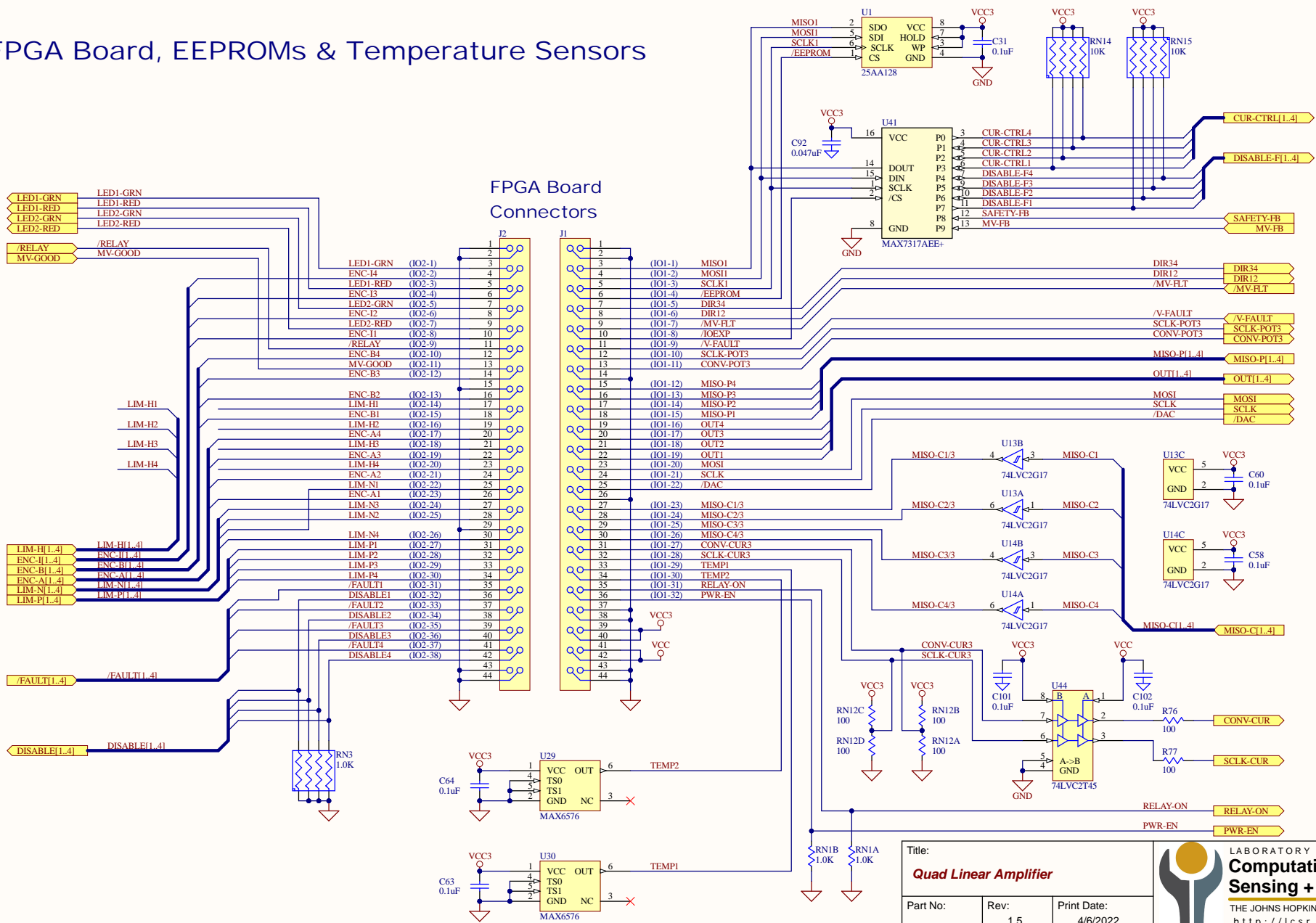


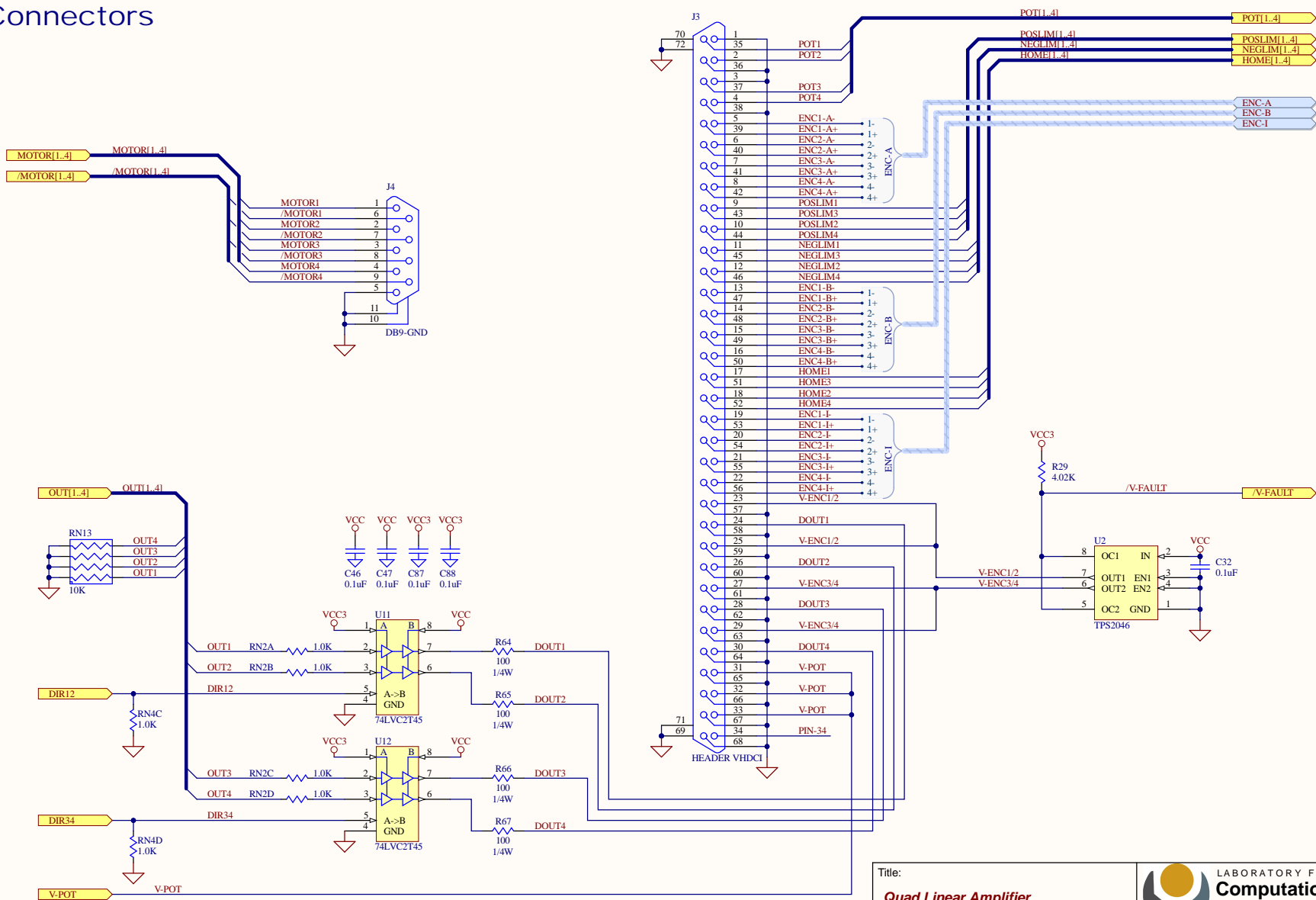
General Conventions:

- Signal names beginning with a '/' are active low
- Unless Specified Otherwise:
 - All resistors are 1% metal film, 1/10W, in 0603 package
 - All non-polarized capacitors are ceramic, in 0603 package
 - All ceramic capacitors up to and including 1,000pF are NPO, 50V or higher, 5% or better
 - All ceramic capacitors over 1,000pF up to and including 1.0uF are X7R, 16V or higher, 10% or better
 - All ceramic capacitors over 1.0uF are of the specified type and voltage
 - All polarized capacitors are of the specified type and voltage

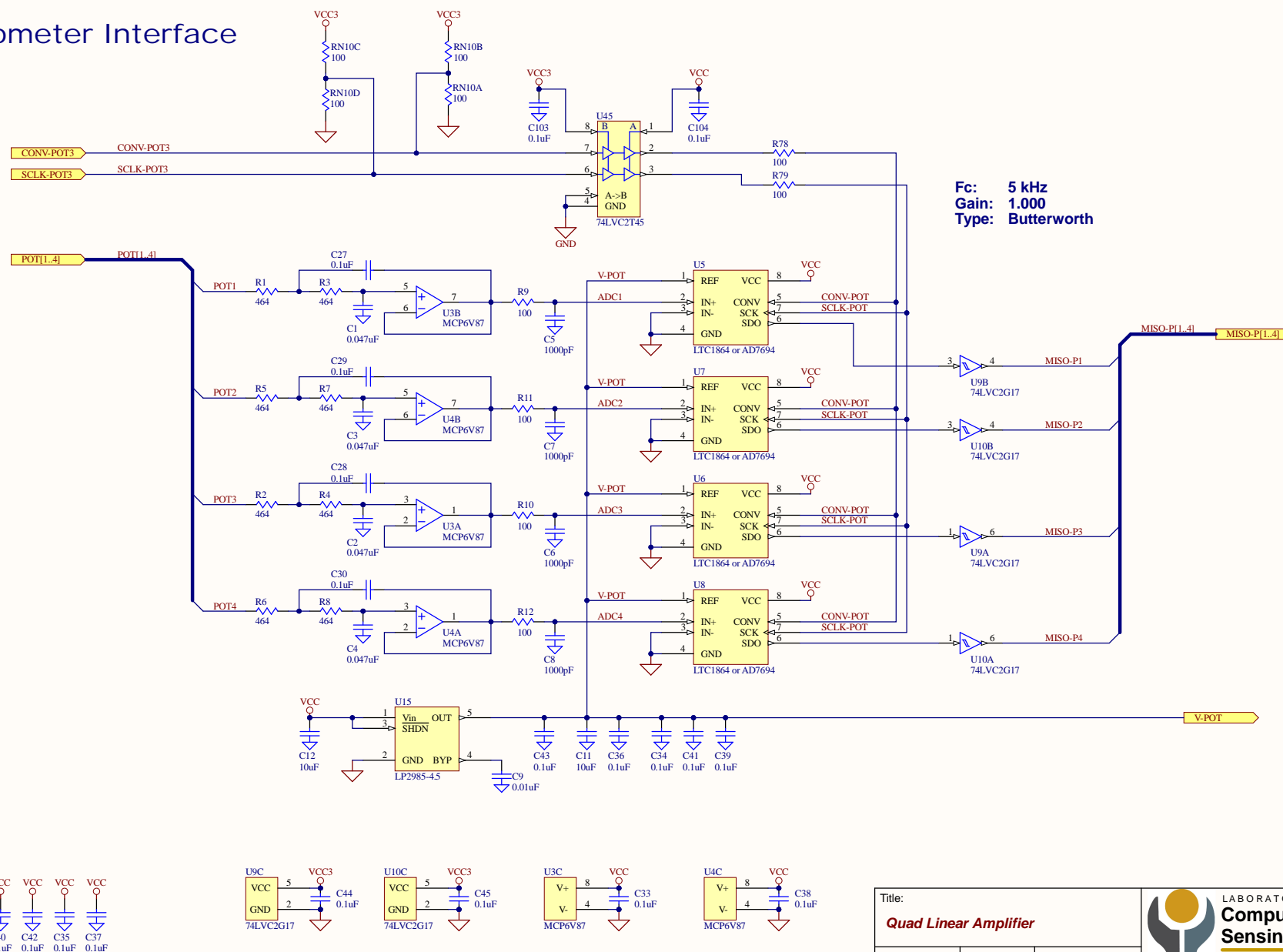
FPGA Board, EEPROMs & Temperature Sensors



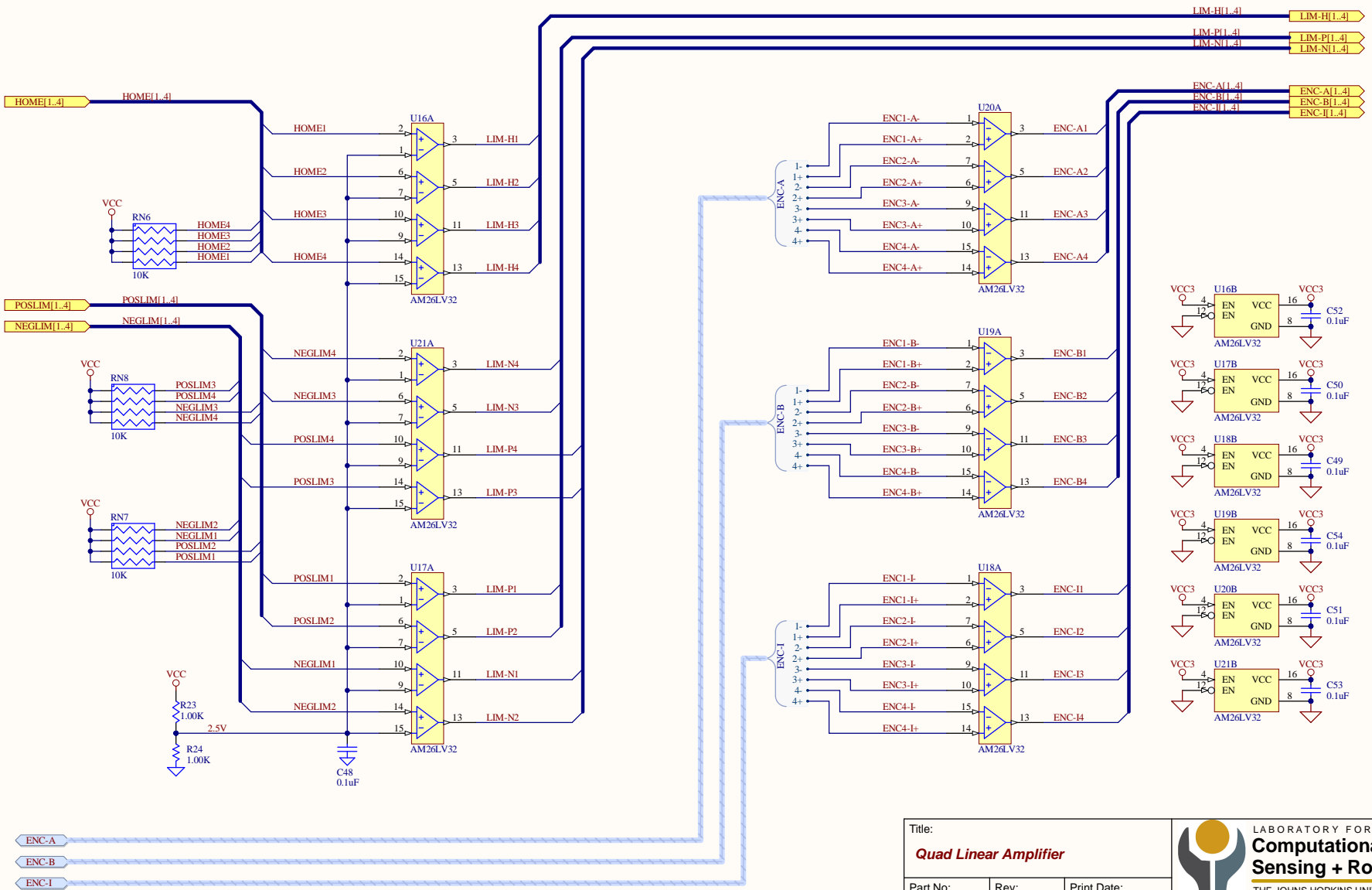
Robot Connectors



Potentiometer Interface



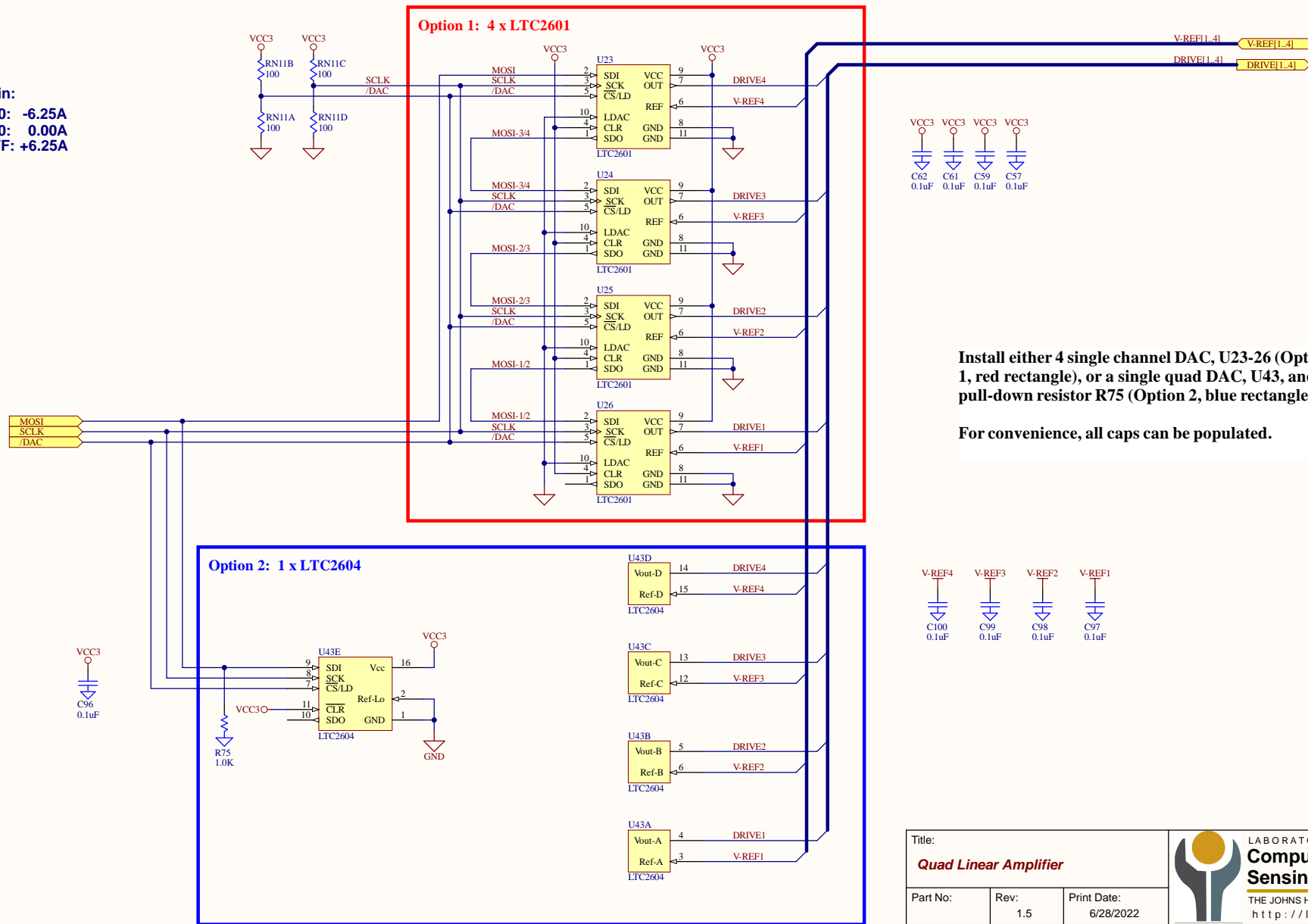
Encoder & Limit Switch Interface



Drive DACs

Drive Gain:

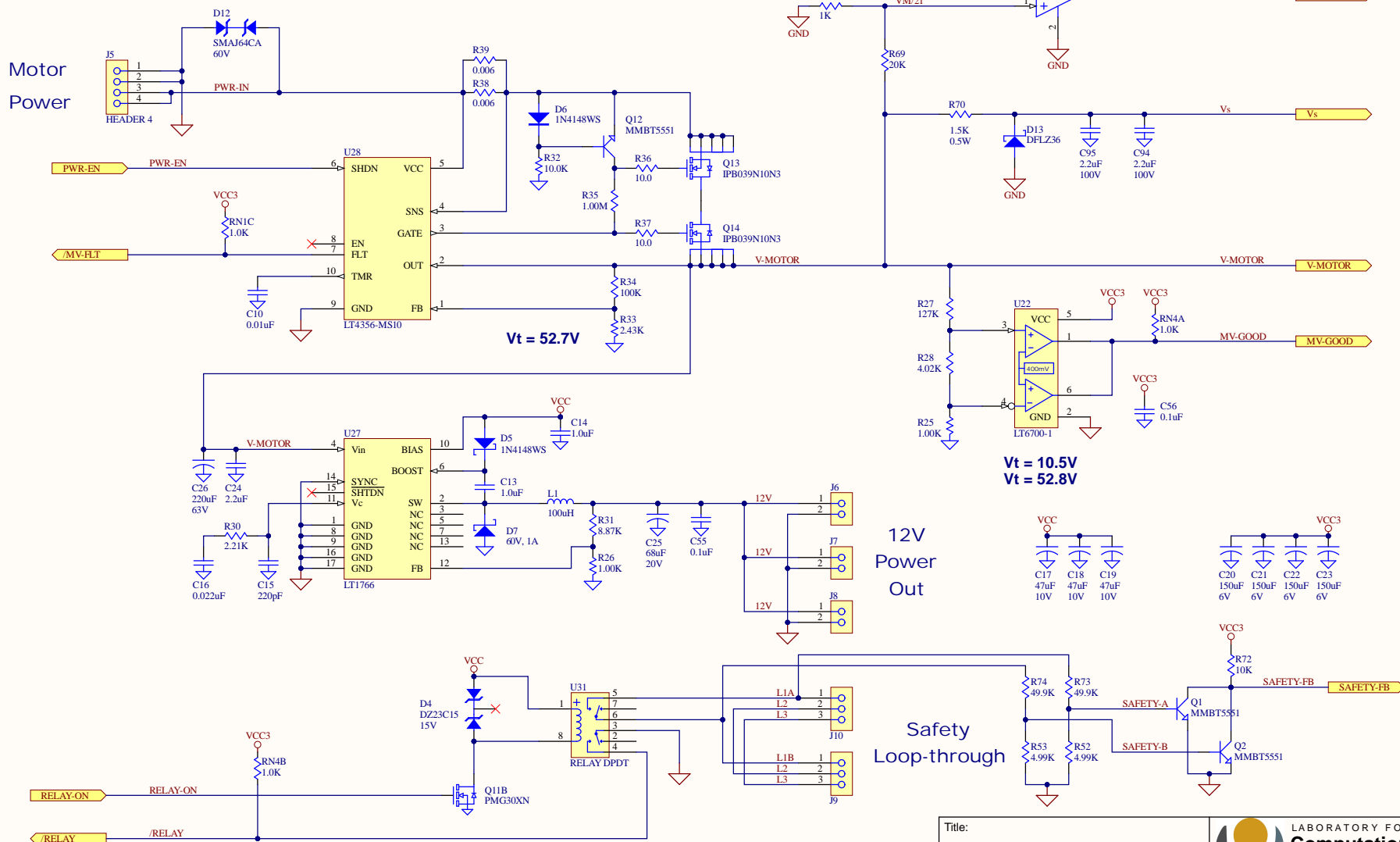
0x0000: -6.25A
0x8000: 0.00A
0xFFFF: +6.25A



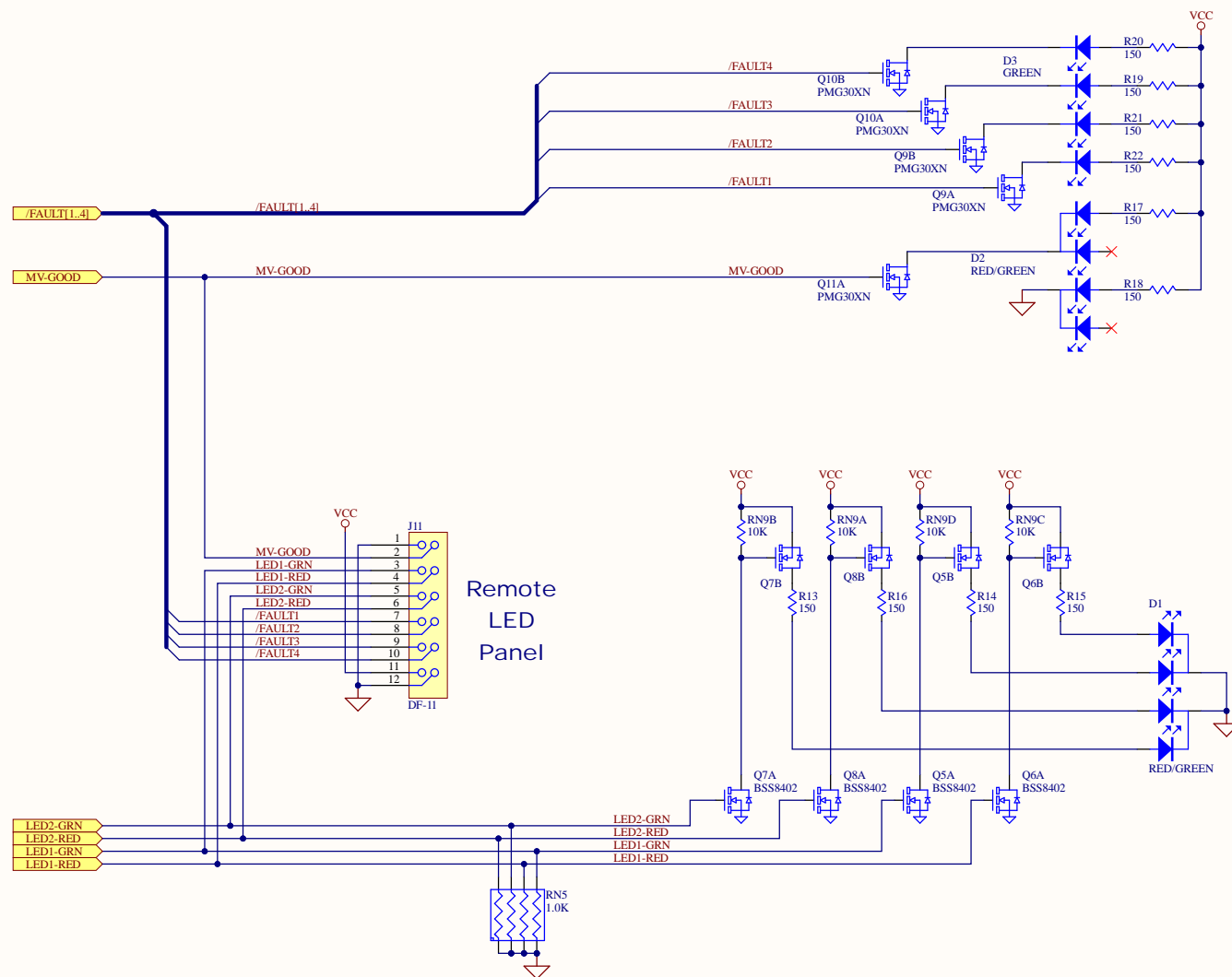
Install either 4 single channel DAC, U23-26 (Option 1, red rectangle), or a single quad DAC, U43, and pull-down resistor R75 (Option 2, blue rectangle).

For convenience, all caps can be populated.

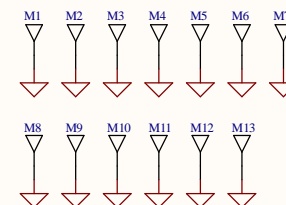
Power Connectors, Power Supplies



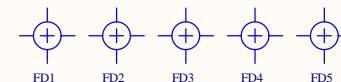
LEDs



Mounting Holes



Fiducials



Motor Driver

Current Control (CUR-CTRL):

Gain: 5 A/V

0x0000: -6.25A

0x8000: 0.00A

0xFFFF: +6.25A

Voltage Control (/CUR-CTRL):

Gain: 36.4 V/V

0x0000: -45.5V

0x8000: 0.0V

0xFFFF: +45.5V

