

Sheet: Power supply
File: Power_supply.sch

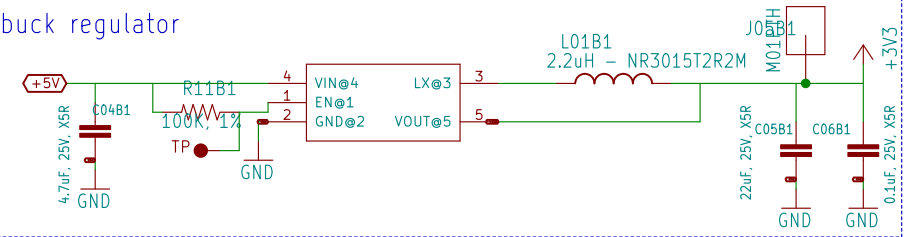
Sheet: e-ink power supply
File: e-ink_power_supply.sch

Sheet: e-ink display & MCU
File: e-ink_display_&_MCU.sch

Sheet: Peripherals
File: Peripherals.sch

Sheet: e-ink-display-v120_5
File: e-ink-display-v120_5.sch

3V3 buck regulator



BQ24075 Note

ILIM resistor

- datasheet pg 8, K for 500–1.5A is 1610
- $R = K/I_{lim} = 1610/0.8A = 2k \text{ Ohm}$

- ISET resistor is recommended 1.13Kohm for 800ma. Using 1k for common resistor. Can do more tests in future

Using ILIM resistor current mode

- EN1 pulled down
- EN2 pulled to OUT

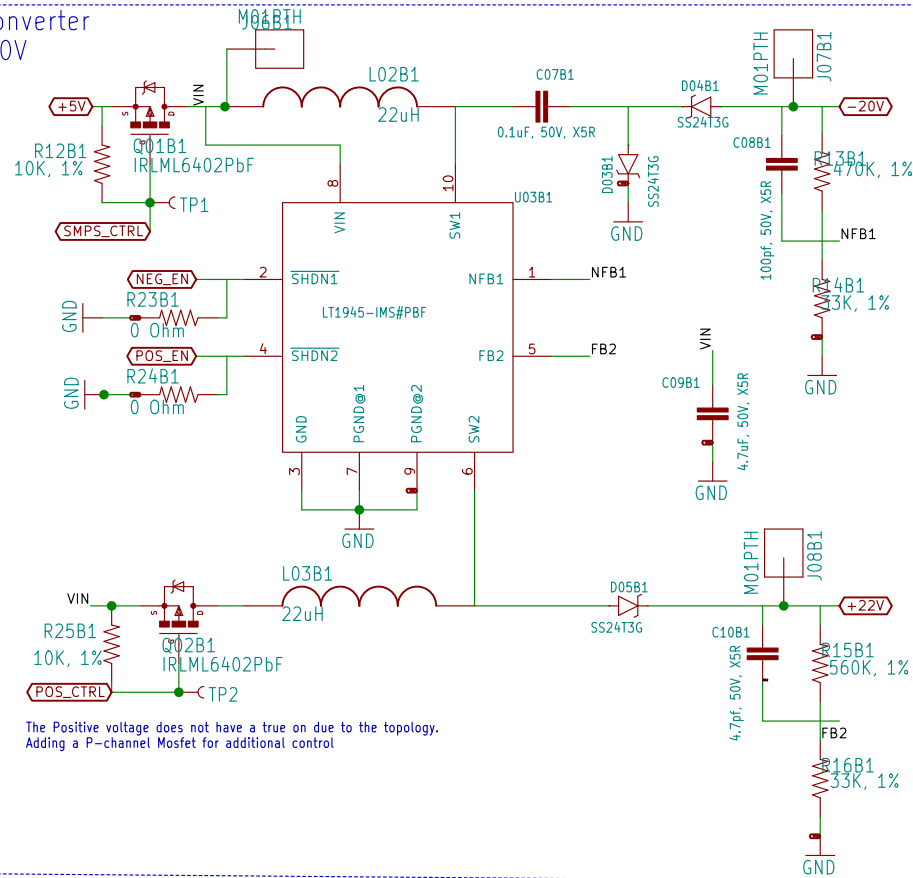
TS 10k pull-down recommended if not needed

Mounting holes

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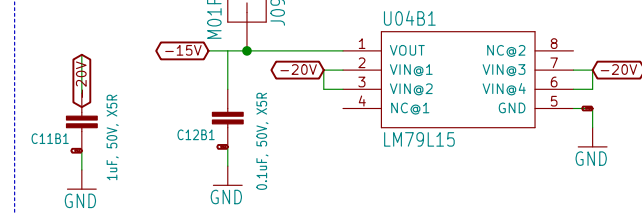
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DC/DC Converter +22V/-20V

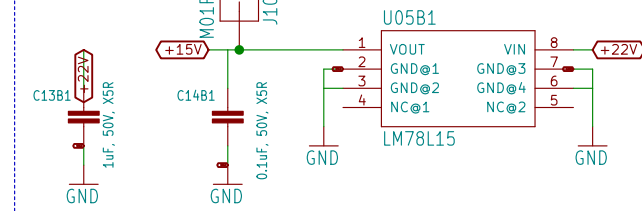


Datasheet recommended
0.33uF

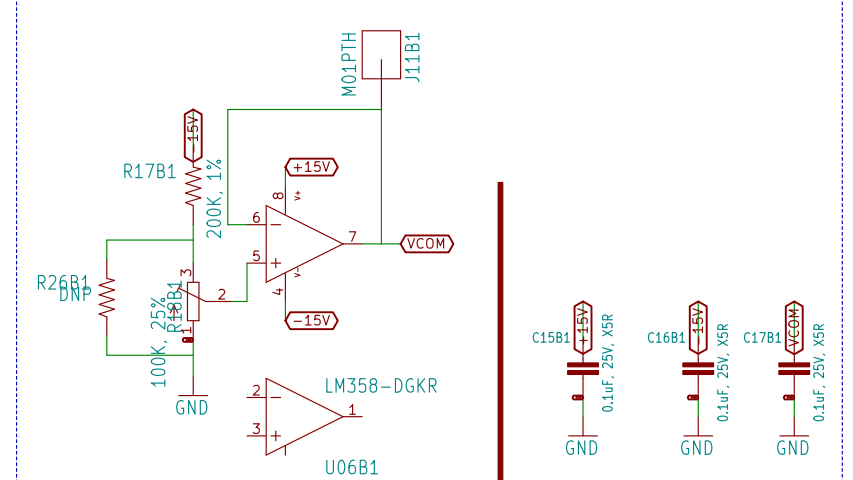
-15V Regulator



+15V Regulator

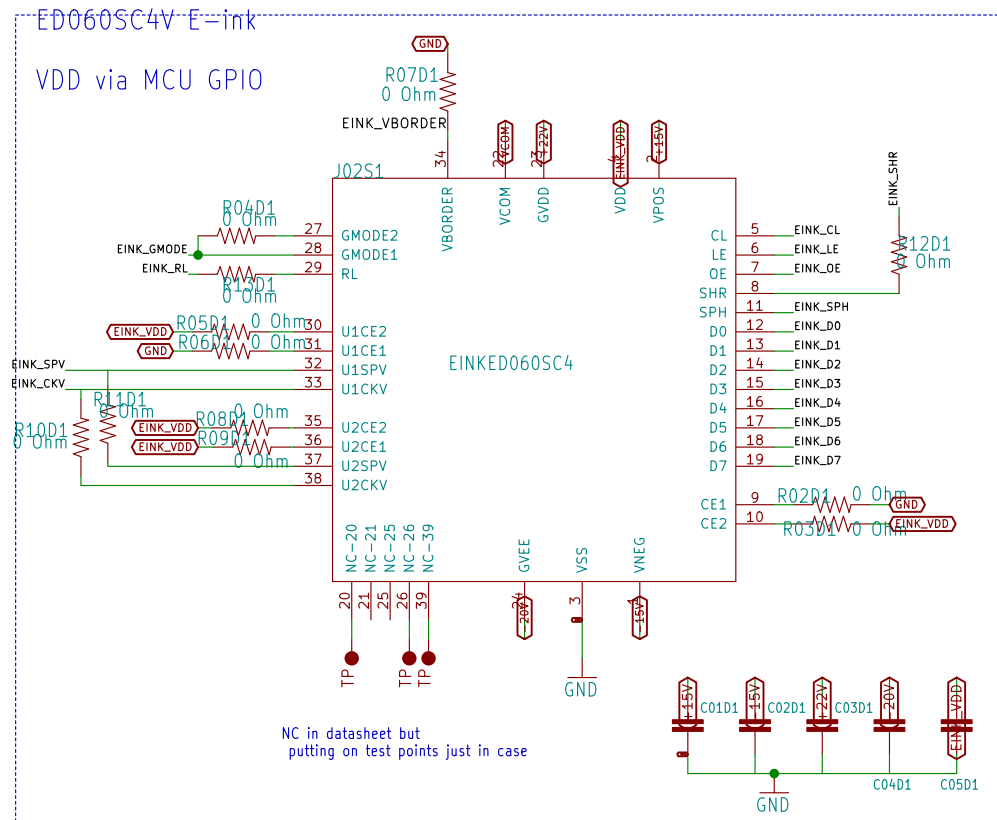


Vcomm voltage



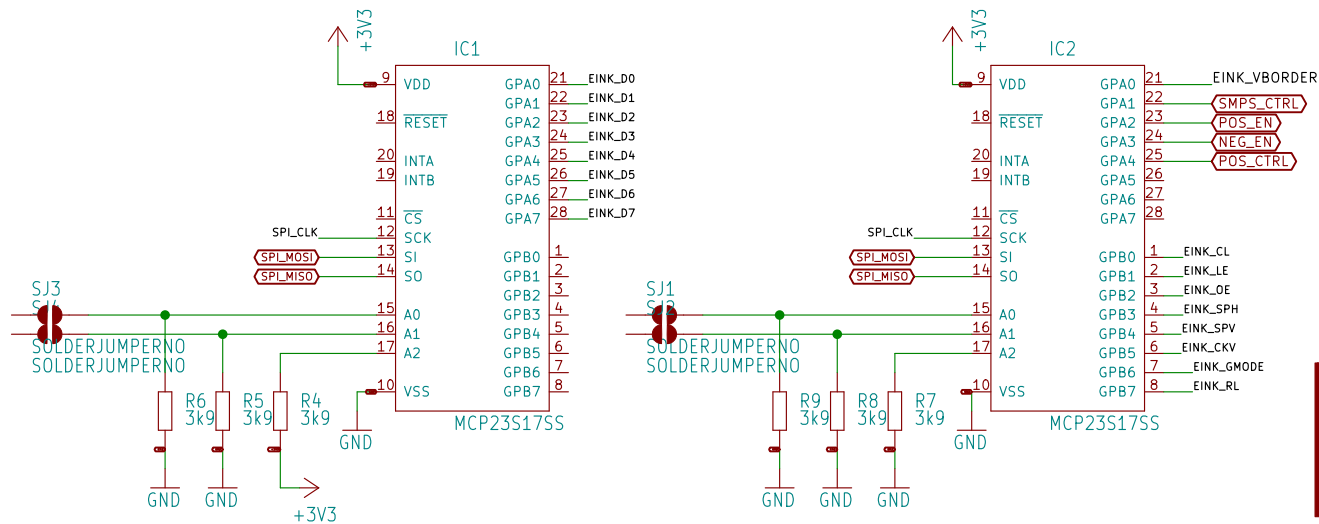
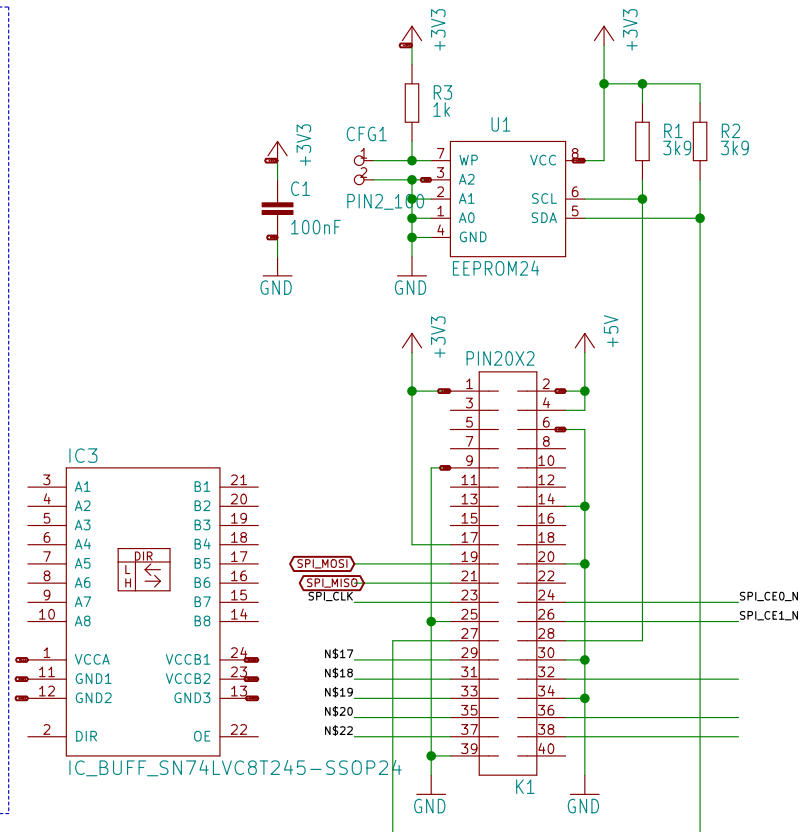
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Oscillator notes

32kHz – using 12.5pf
8MHz – using 20pf

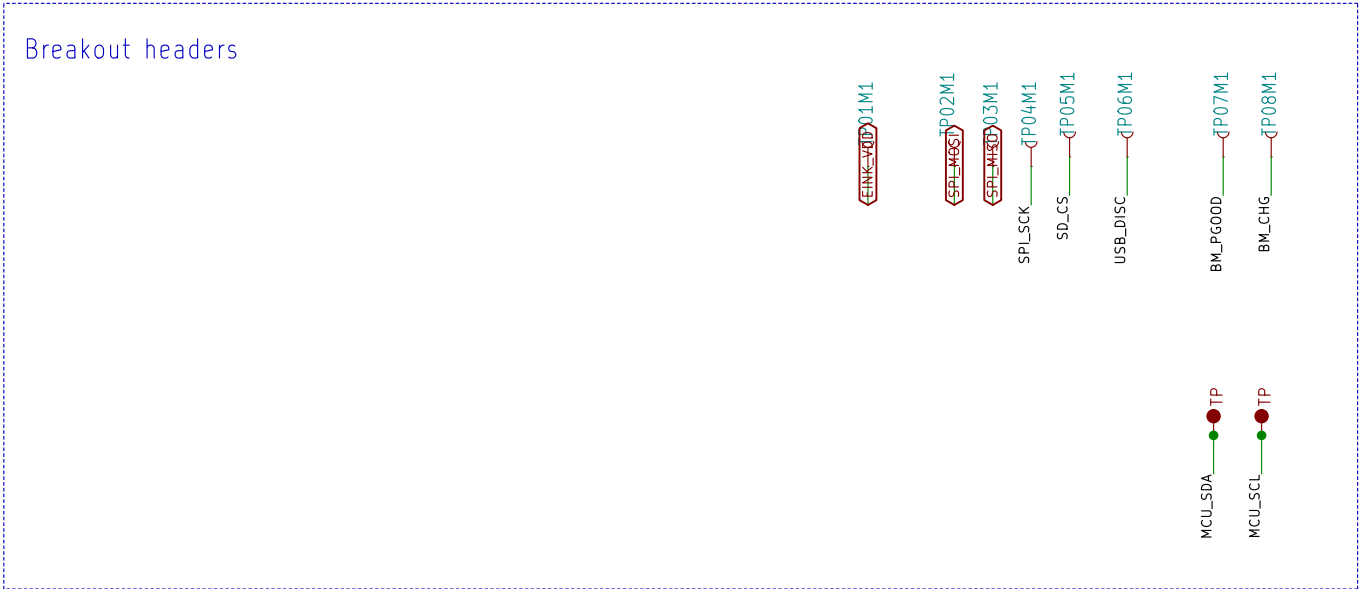


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I2C Address table

0x1010 011x ADXL



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Drawn by: Ivan Zilic Checked by: FLYFISH TECHNOLOGIES d.o.o.		
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