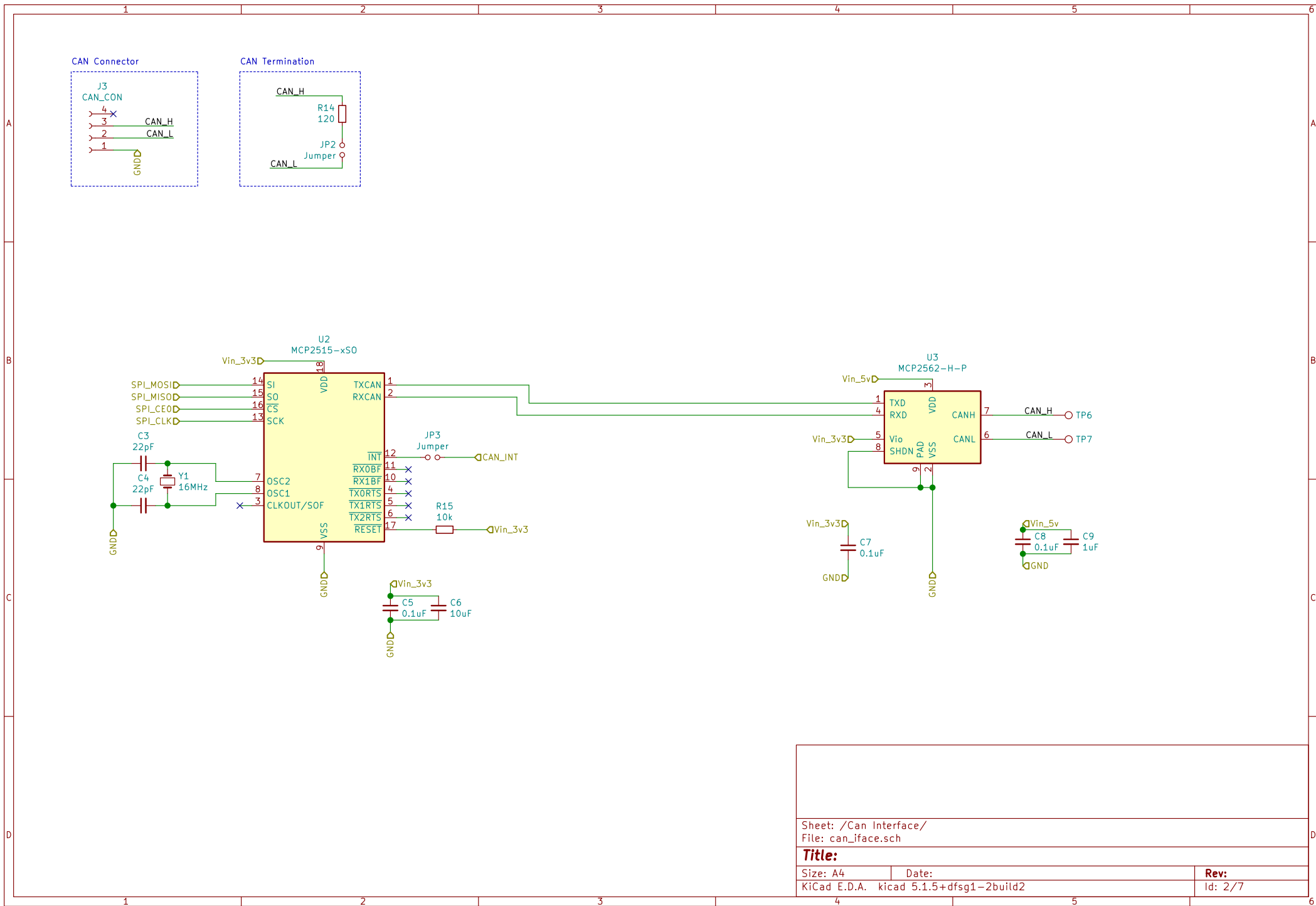


Sheet: /
File: dart-hat.sch

Title:

Size: A4 Date:
KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Rev:
Id: 1/7

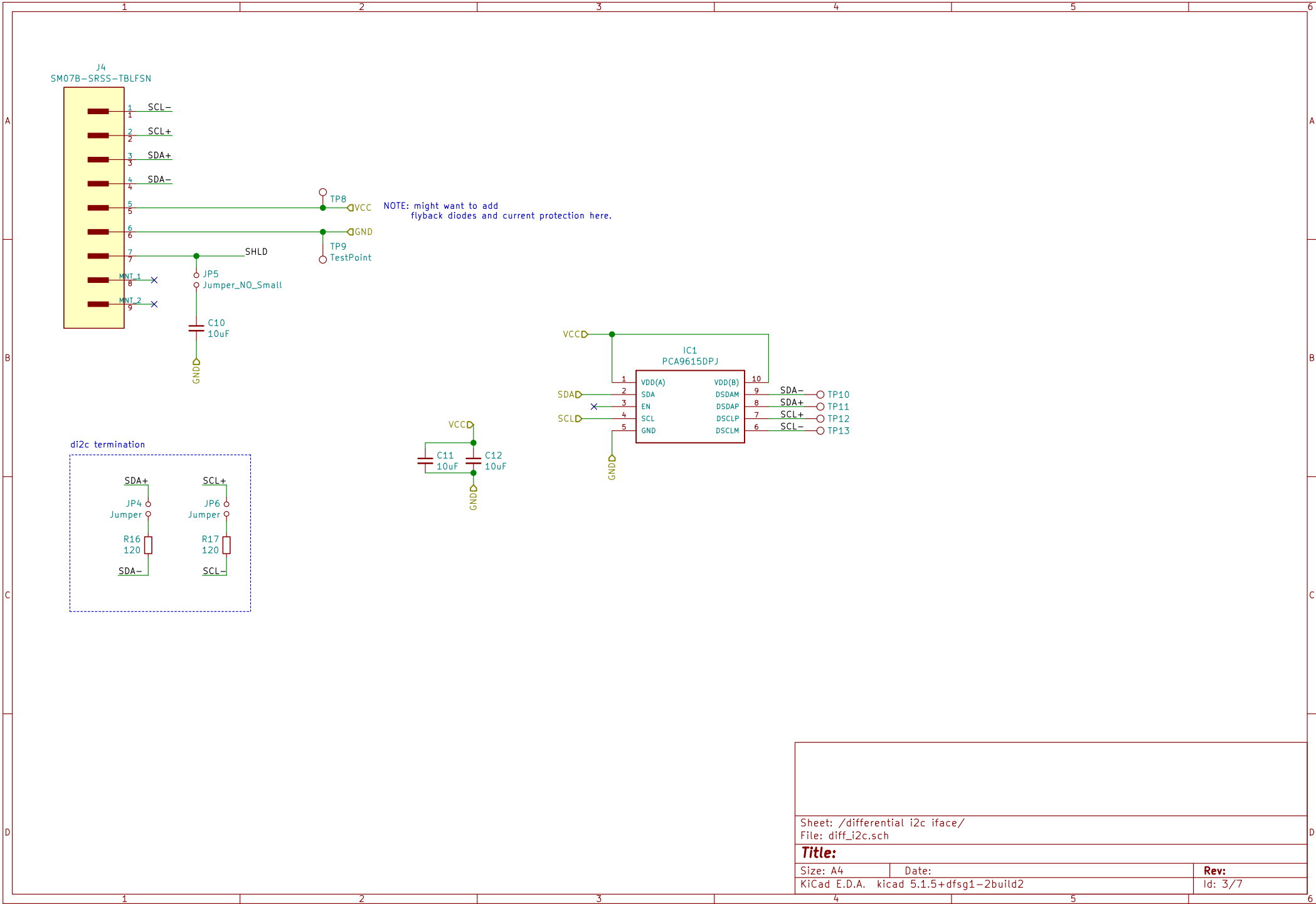


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File: can_iface.sch

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Size: A4 Date:
KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Rev:
Id: 2/7



Sheet: /differential i2c iface/
File: diff_i2c.sch

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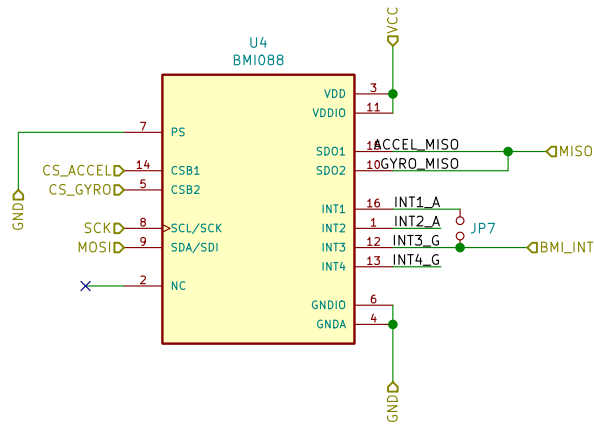
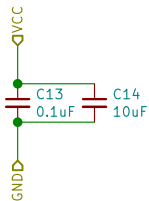
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NOTES: bmi088 driver has DRDY wired to gpio26 (pin 6 on wiringpi)
- i2c should be easier but i'm going for SPI since the old implementation works
- shuttle has interrupt pin jumper
- might want to not only expose the jumper for this, but also tie in 2 separate GPIO pins with the 2.54mm headers on each interrupt so i can manually connect interrupt pins?

IMPORTANT: review the SPI initialization behavior (6.1, p45, bmi088 datasheet)
- looks like GND on PS sets gyro to SPI mode
- giving a rising edge on the CS pin for the accel switches it to spi mode. this can be done via a dummy read/write operation

Sheet: /IMU/
File: IMU.sch

Title:

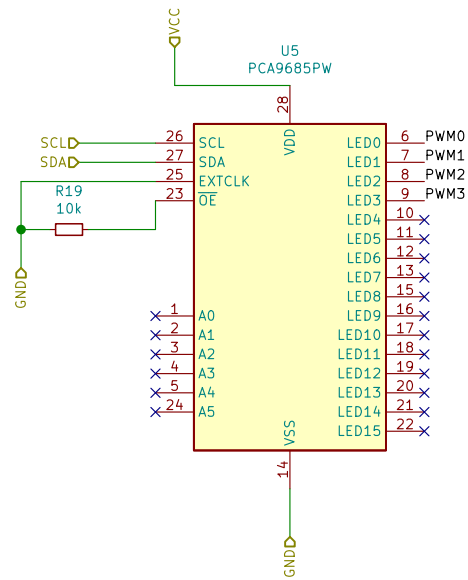
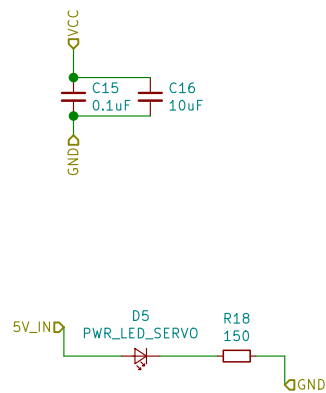
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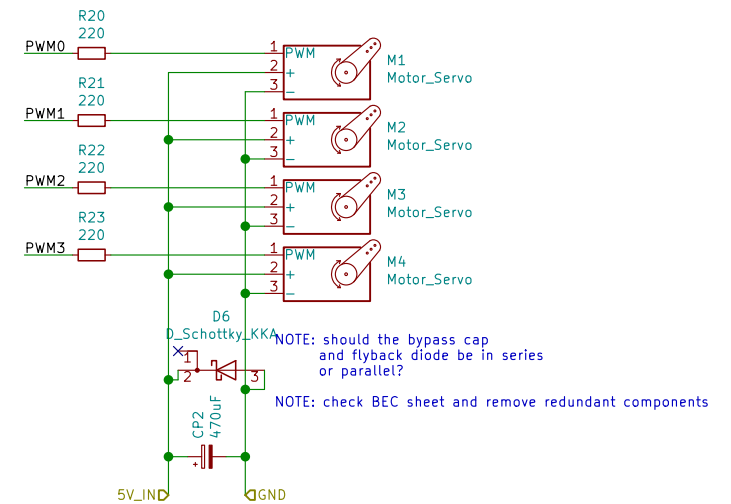
Rev:

Id: 4/7



TODO:

- reverse voltage protection (backcurrent)
- decoupling
- fuses
- power setup



Sheet: /Servo Driver/
File: servo_driver.sch

Title:

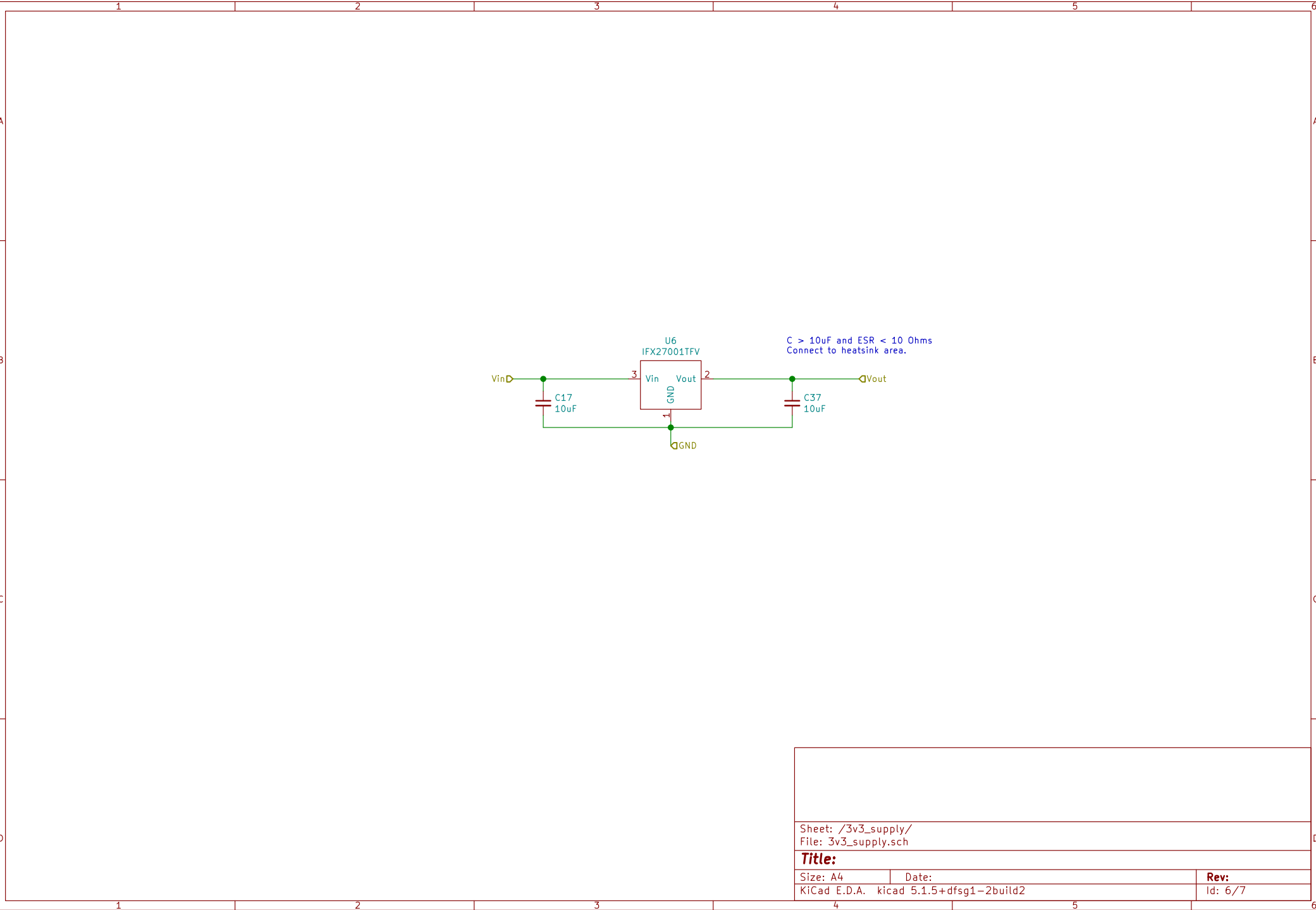
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Rev:

Id: 5/7



Sheet: /3v3_supply/ File: 3v3_supply.sch		
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