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File: dart-hat.sch

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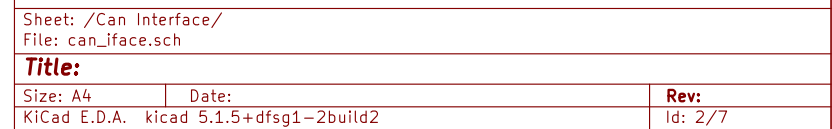
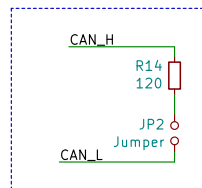
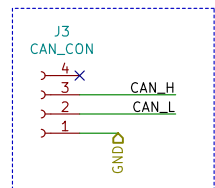
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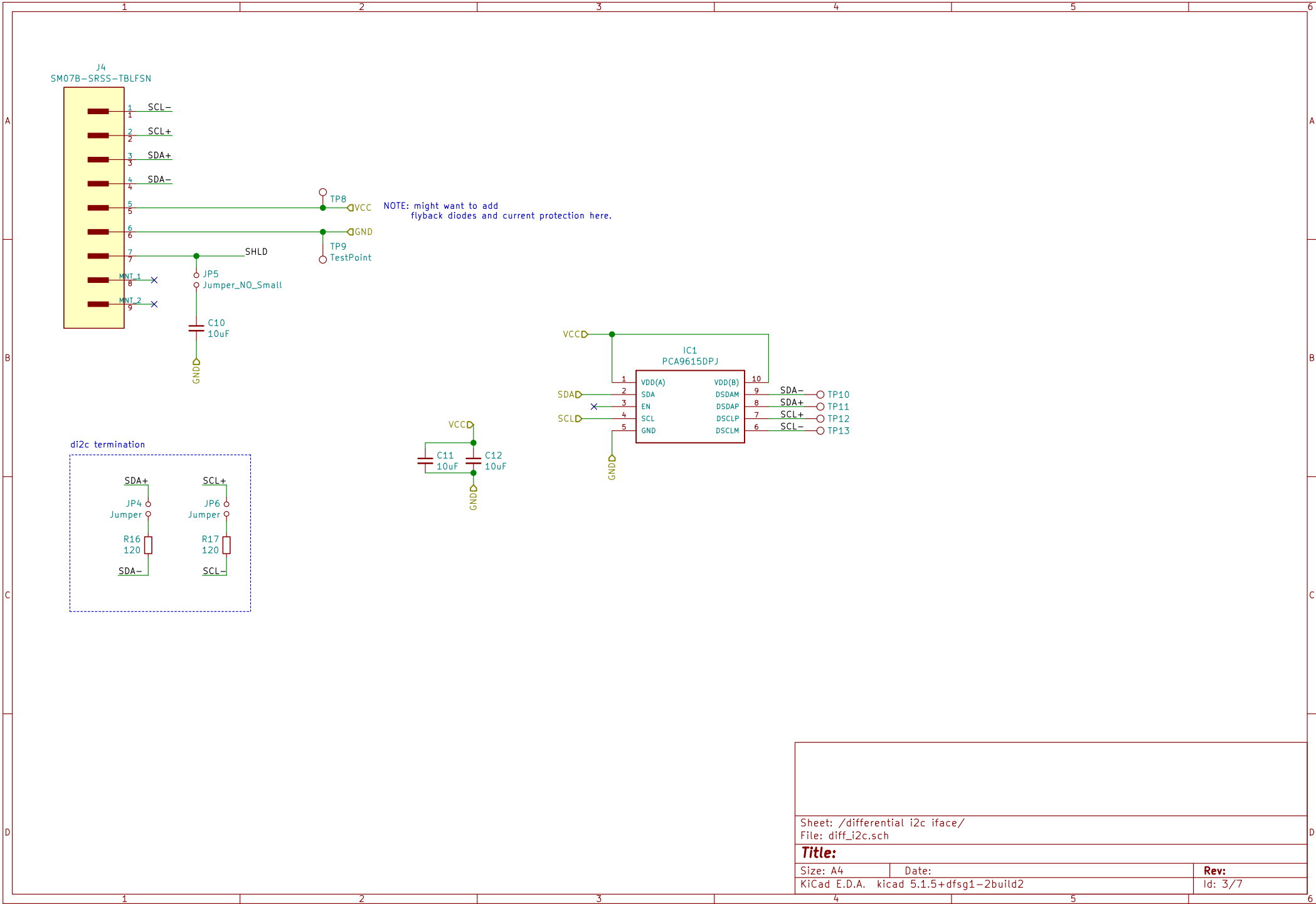
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Sheet: /differential i2c iface/  
File: diff\_i2c.sch

**Title:**

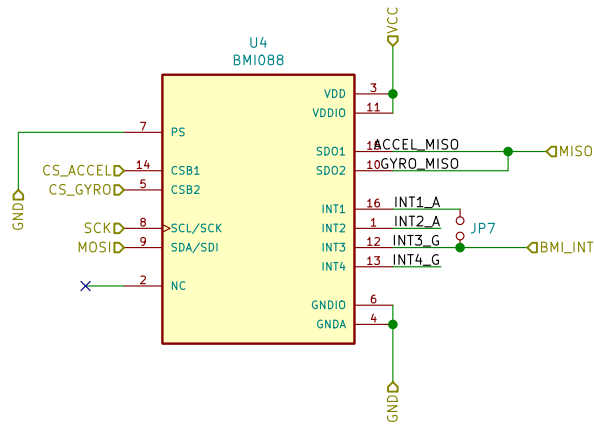
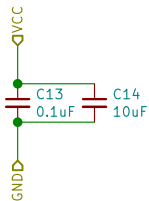
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NOTES: bmi088 driver has DRDY wired to gpio26 (pin 6 on wiringpi)  
- i2c should be easier but i'm going for SPI since the old implementation works  
- shuttle has interrupt pin jumper  
- might want to not only expose the jumper for this, but also 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:**

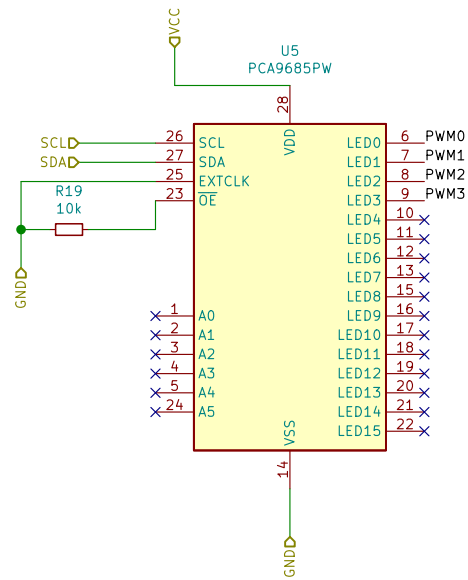
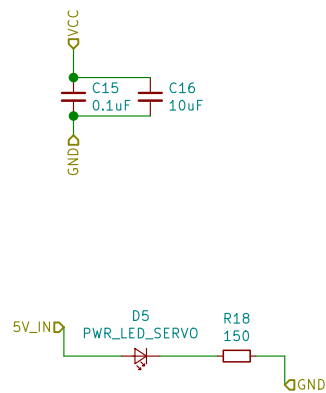
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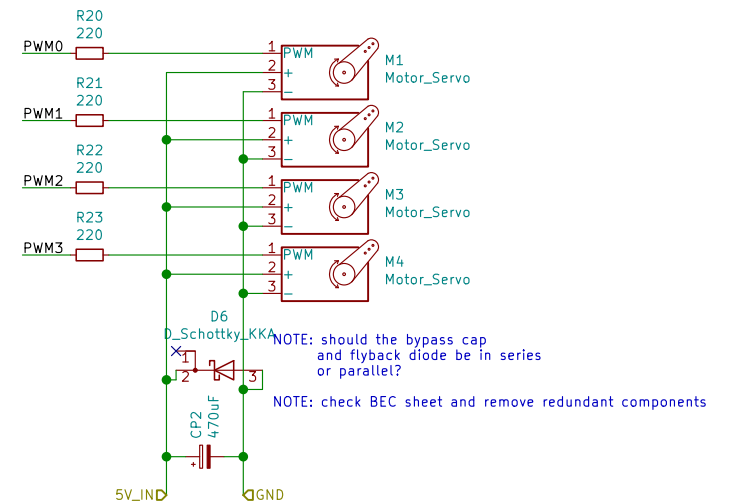
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TODO:

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



Sheet: /Servo Driver/  
File: servo\_driver.sch

**Title:**

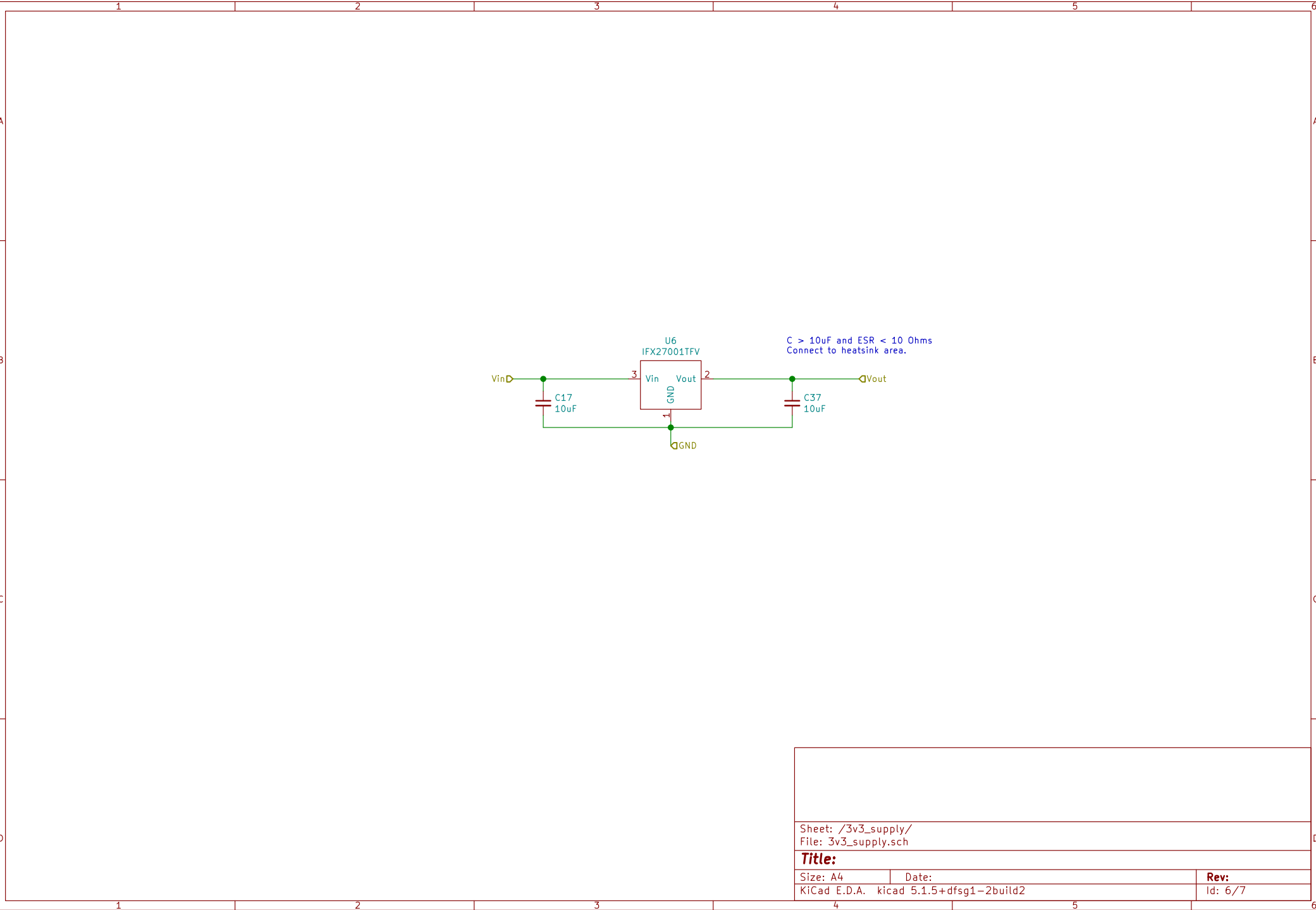
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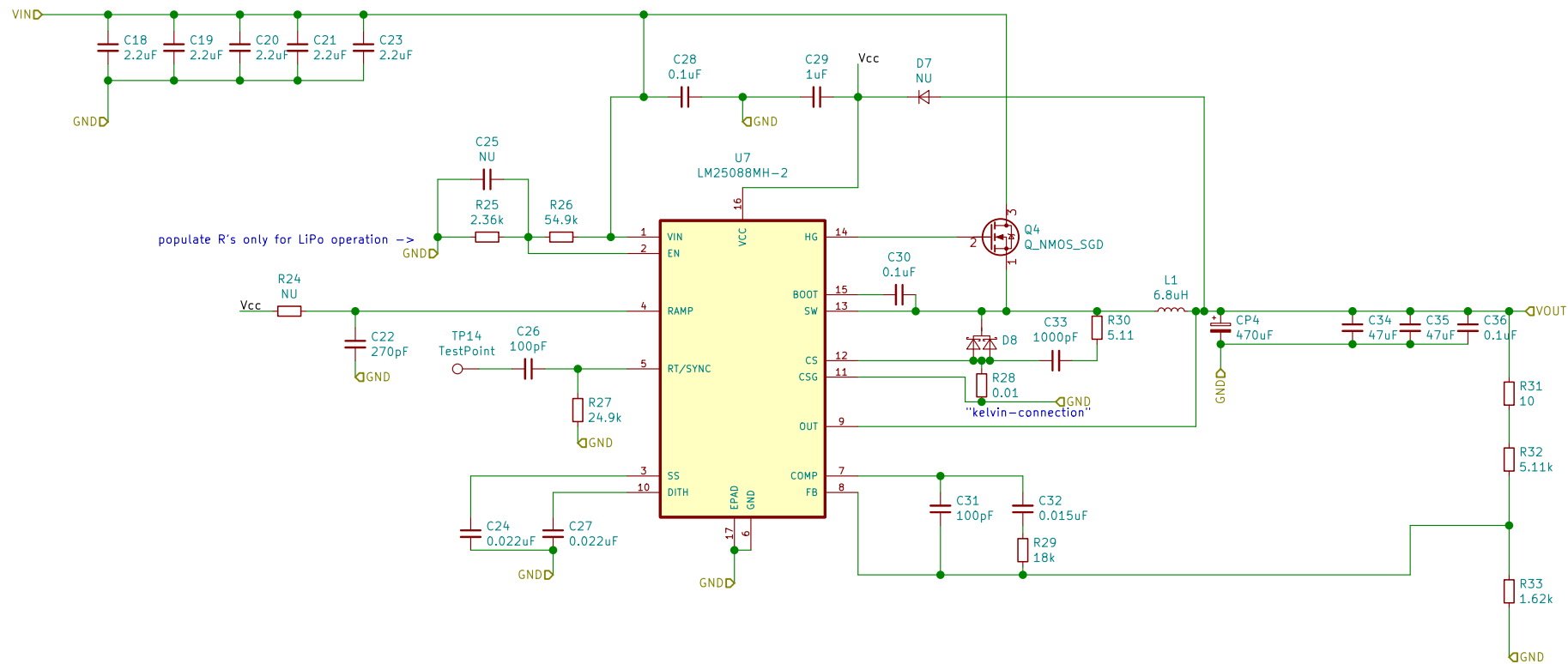
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|---|-------|---------|
| Sheet: /3v3_supply/<br>File: 3v3_supply.sch |       |         |
| Title:                                      |       |         |
| Size: A4                                    | Date: | Rev:    |
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Sheet: /5V Power Supply/  
File: 5V\_Power\_Supply.sch

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