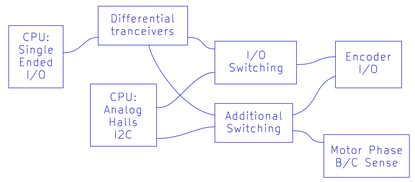
53V input maximum run voltage
20 Amp max continuous current draw (roughly, depends on thermals)
50 Amp peak per motor absolute maximum

CONSIDER THERMISTOR VOLTAGE IF MOTOR HALLS RUN AT 5V
(or punt!?)

Changelog:
July 16 2024
Change low side pullups to pulldowns so that low side FET is on by default.

Encoder Supports:
Single Ended I2C Hall Sensors
Differential or Single Ended SPI
Differential or Single Ended Quadrature with Index
Dual Channel Analog



SEE ALSO CA-IS3050G PART WHICH IS SIMILAR BUT HAS SWAPPED RXD AND TXD

When using halls, route signals through this filter network.

Divider for single ended use without hall filtering.

EXT_ANALOG_SW can be shared.
We either route external lines to the ADC or those lines go to differential transceivers and we read B and C phase sense with analog.

Note: Dual current sense resistors are used to allow for easier use at lower power levels. Remove one resistor or order boards with only one stuffed for more resolution at lower power.

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File: rp2350_driver.kicad_sch	
Title:	
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