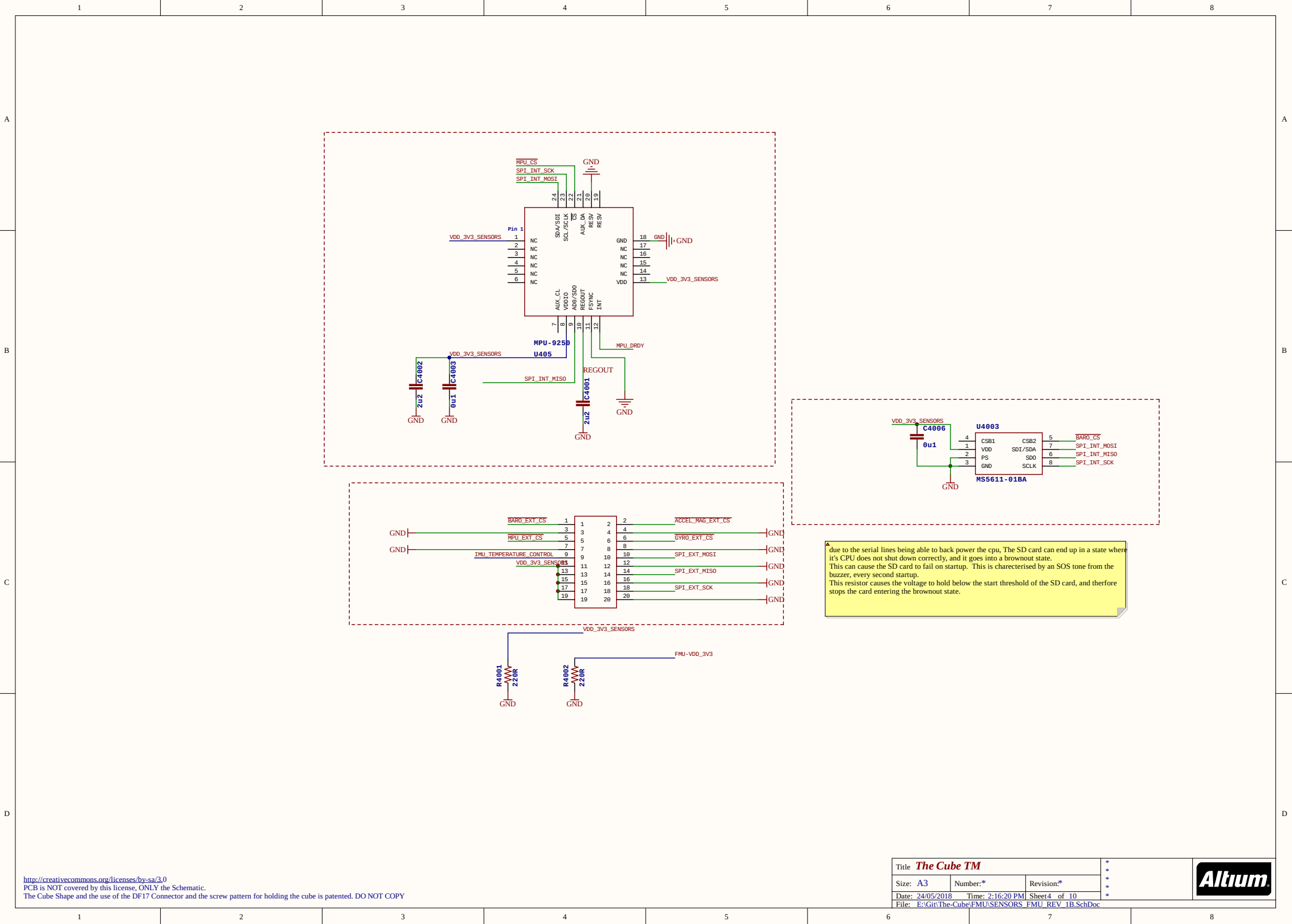
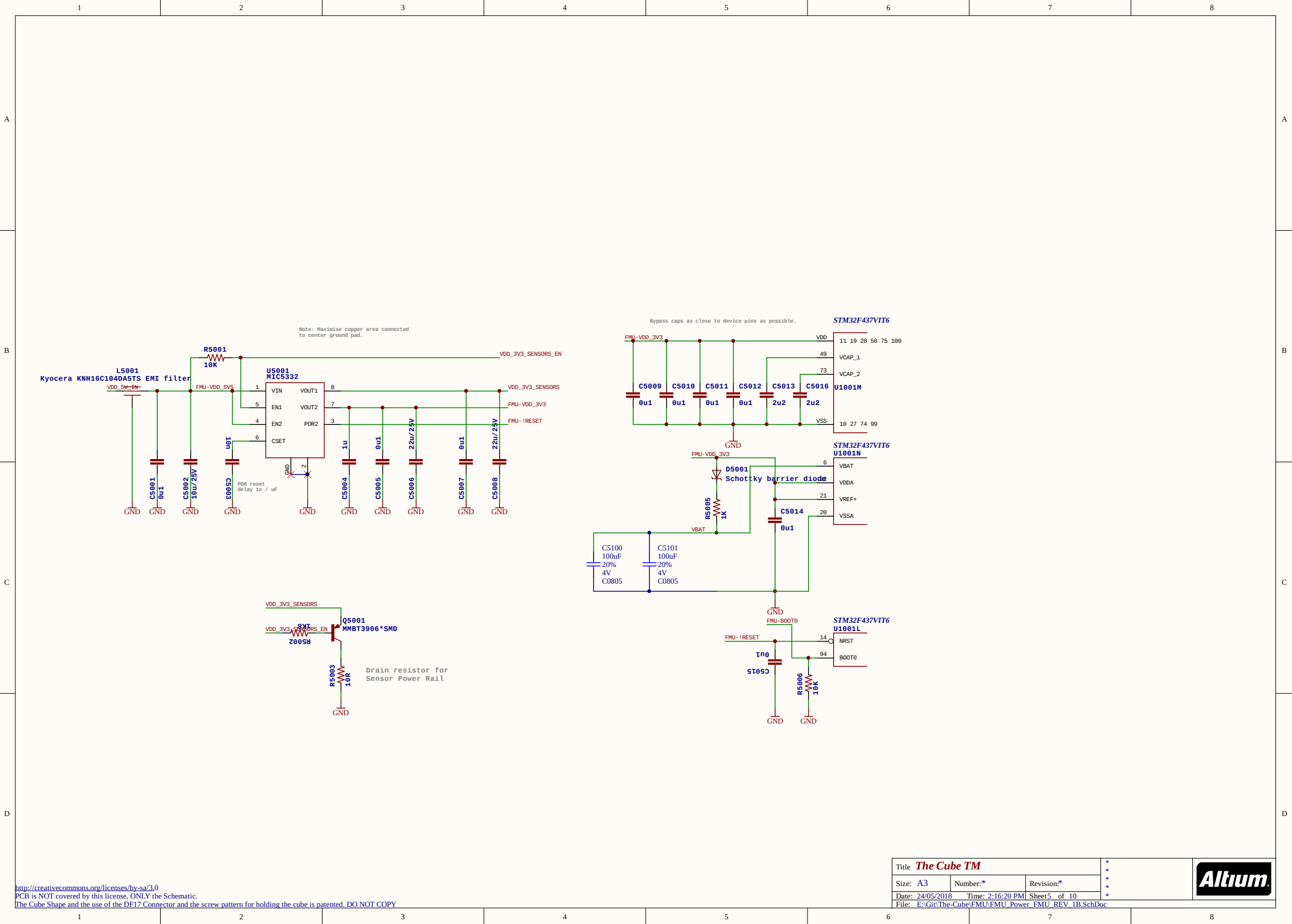
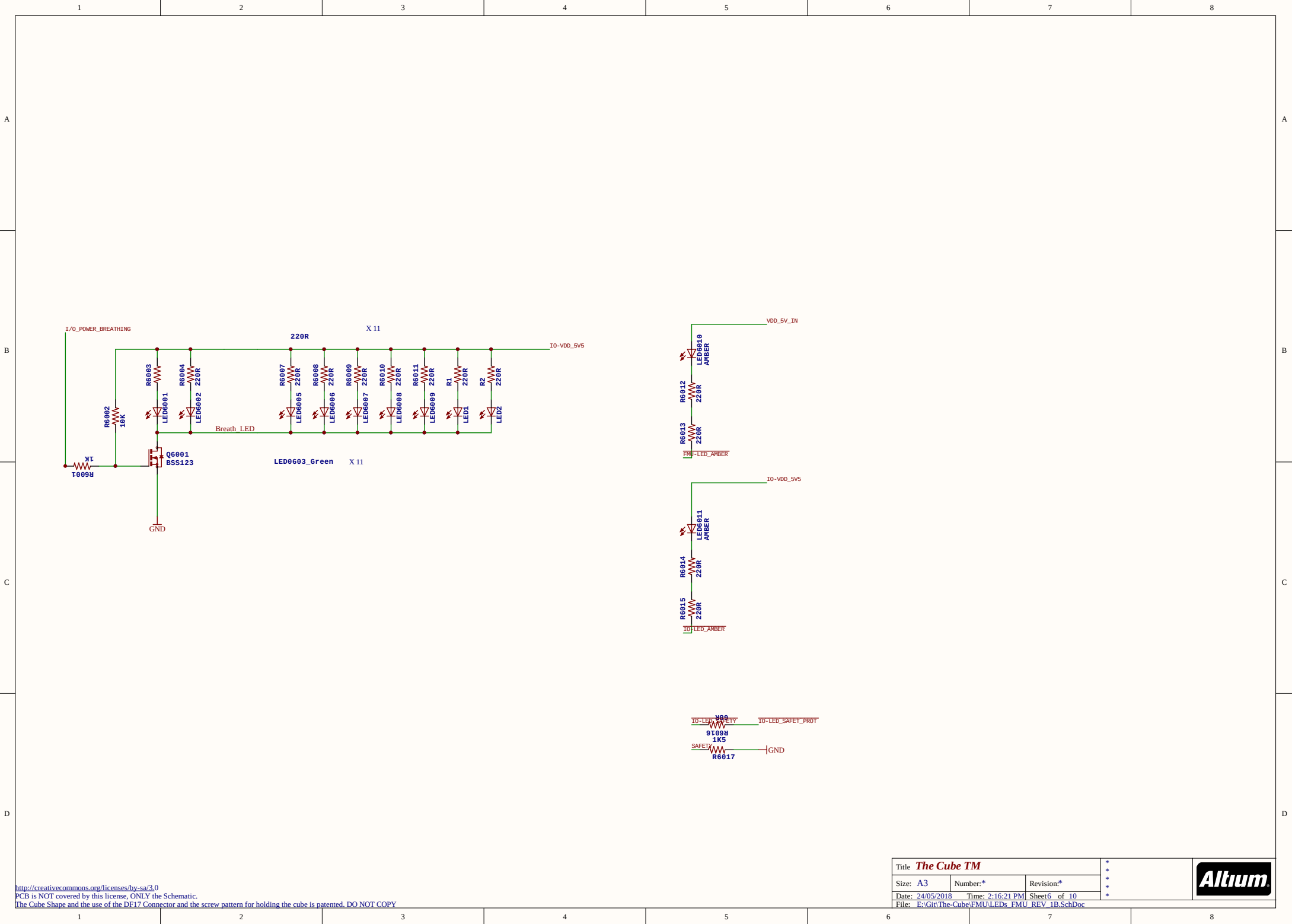




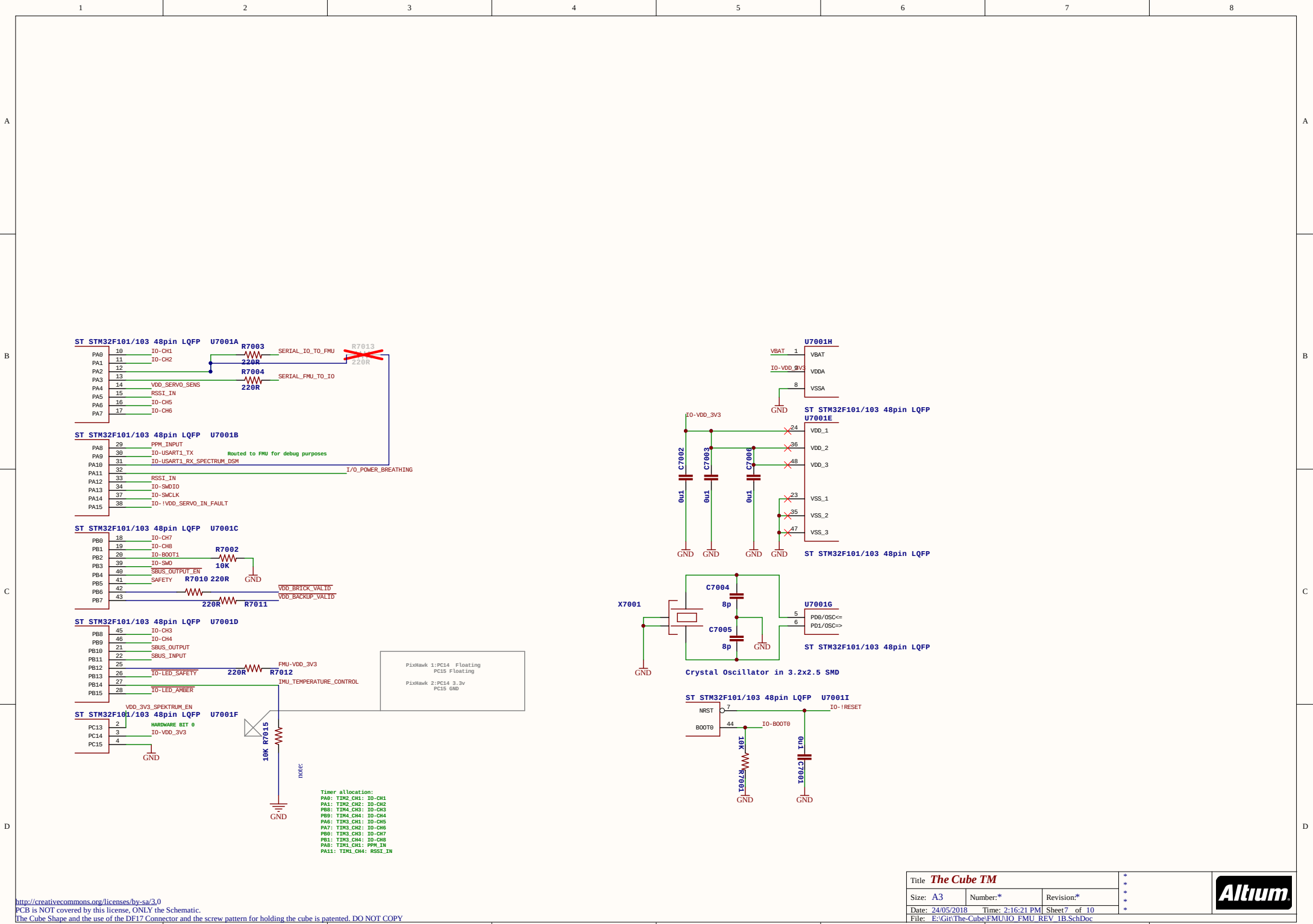


due to the serial lines being able to back power the cpu, The SD card can end up in a state where it's CPU does not shut down correctly, and it goes into a brownout state. This can cause the SD card to fail on startup. This is characted by an SOS tone from the buzzer, every second startup. This resistor causes the voltage to hold below the start threshold of the SD card, and therefore stops the card entering the brownout state.

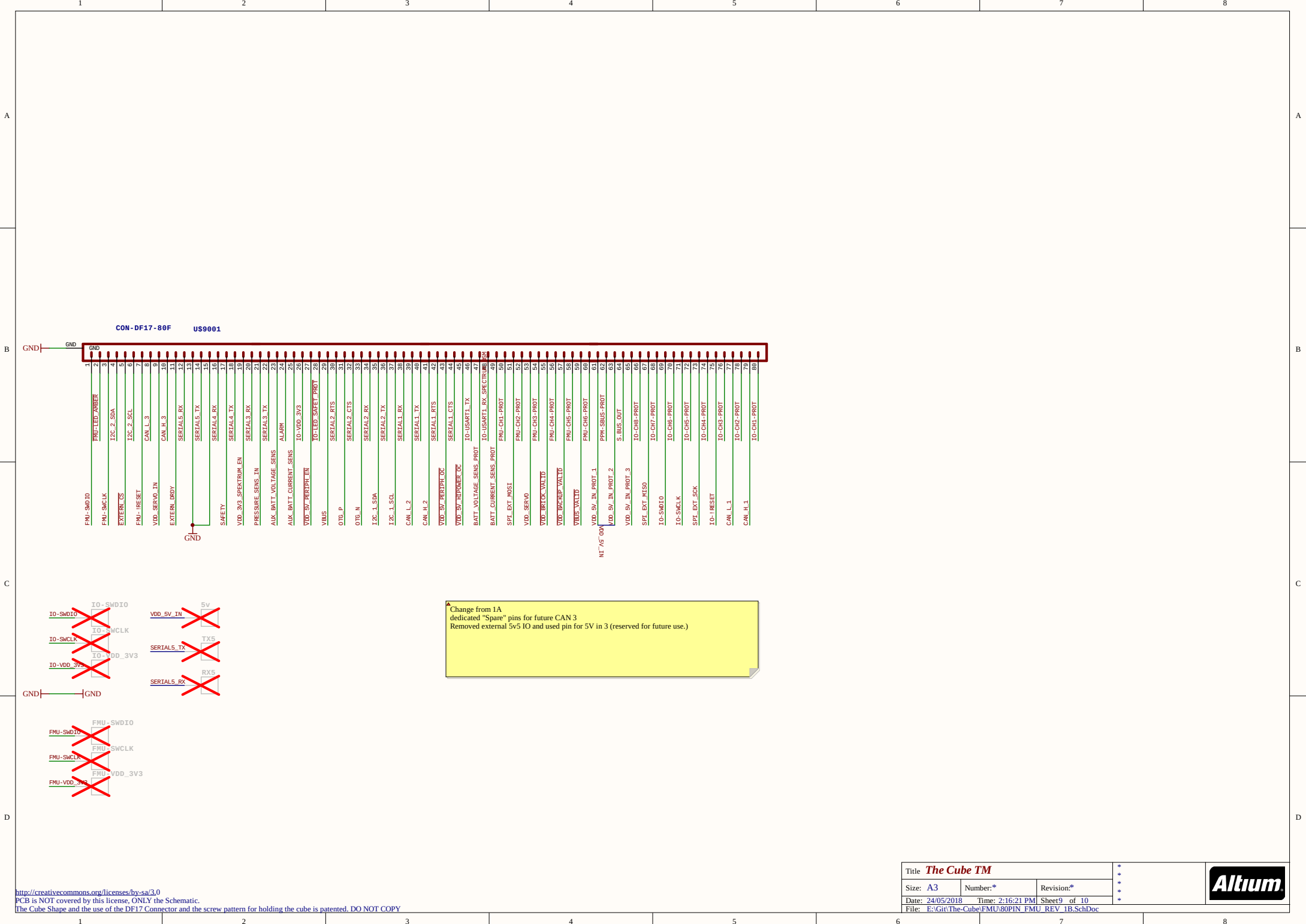


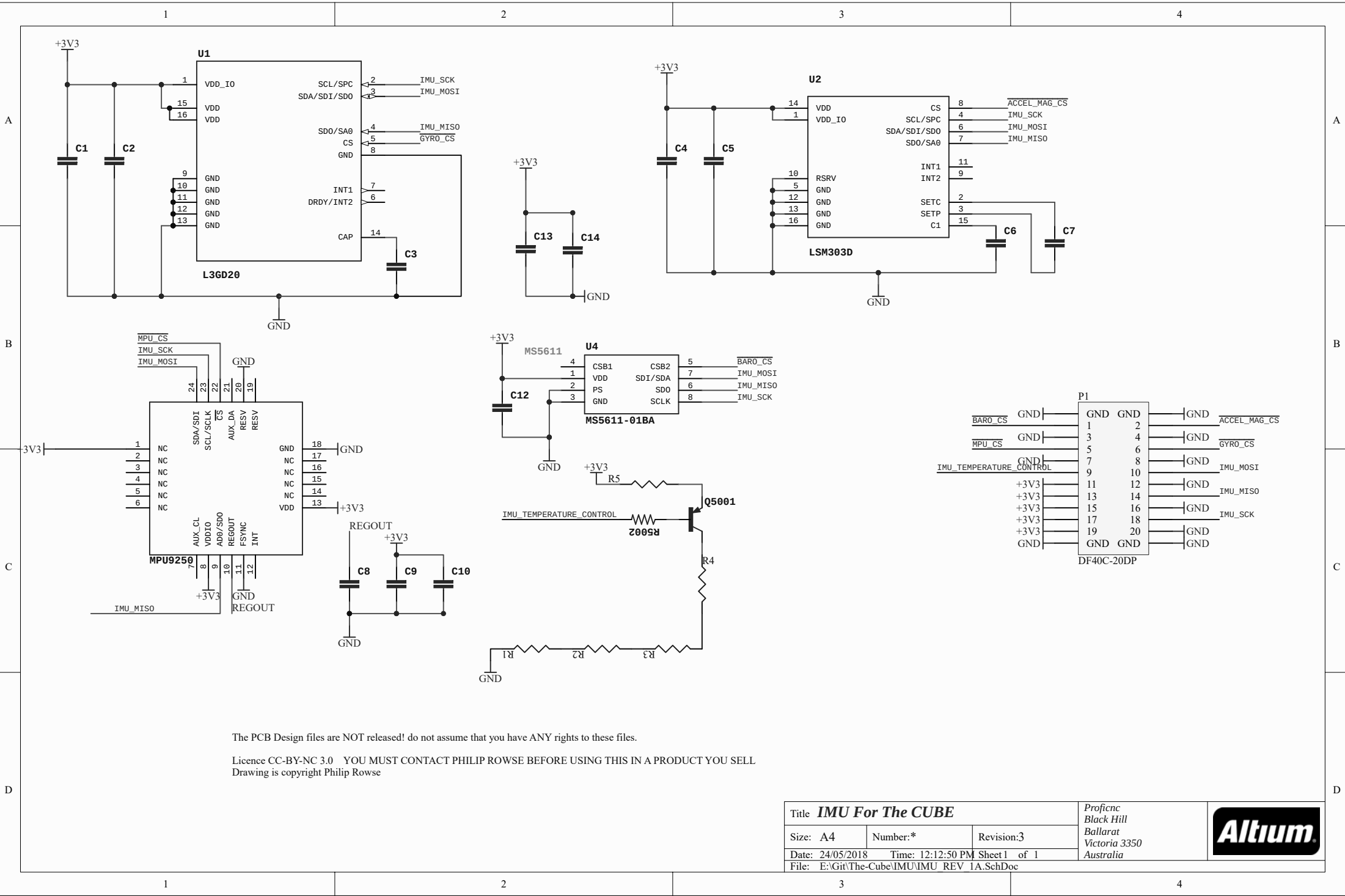


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The Cube Shape and the use of the DF17 Connector and the screw pattern for holding the cube is patented. DO NOT COPY





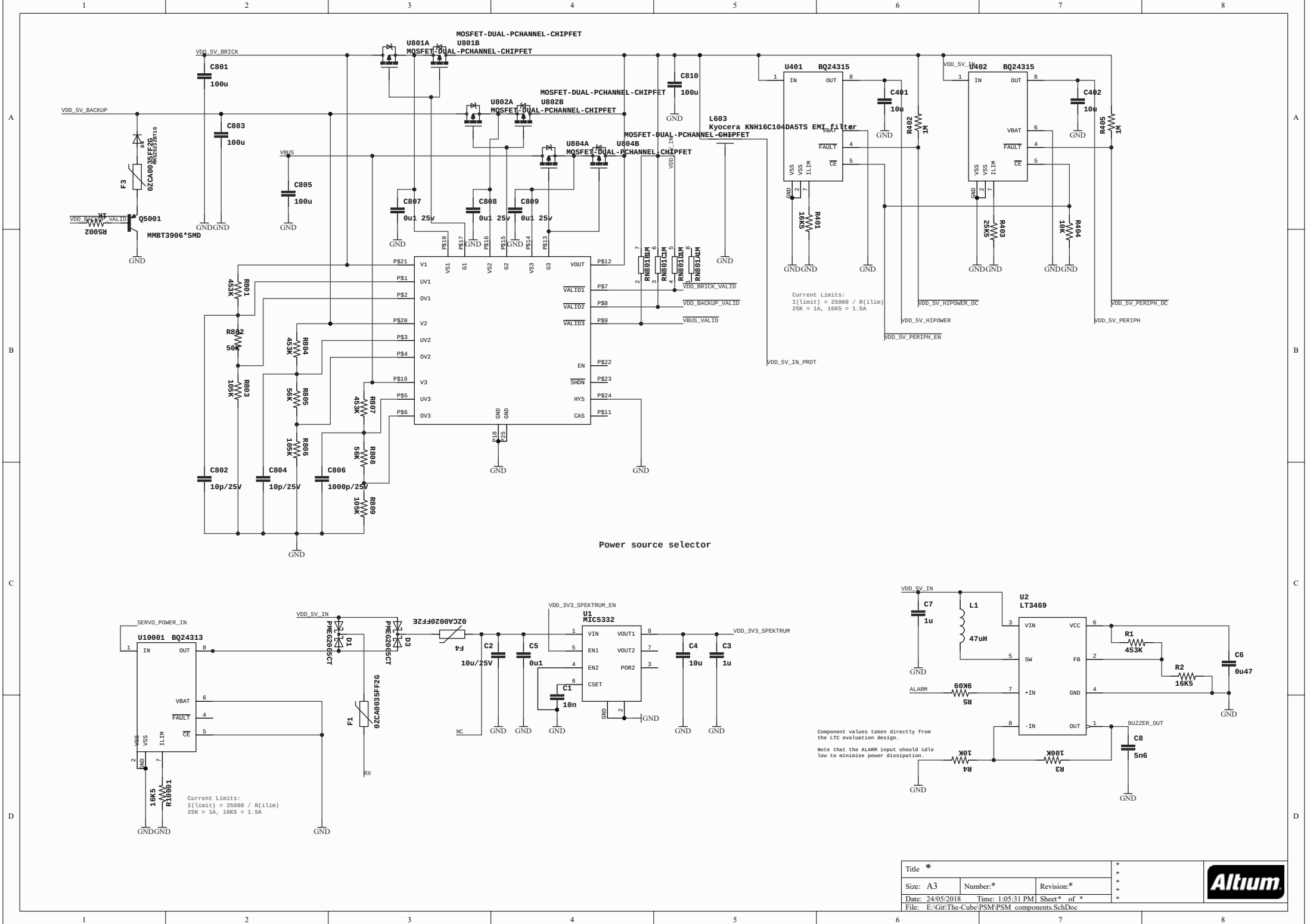




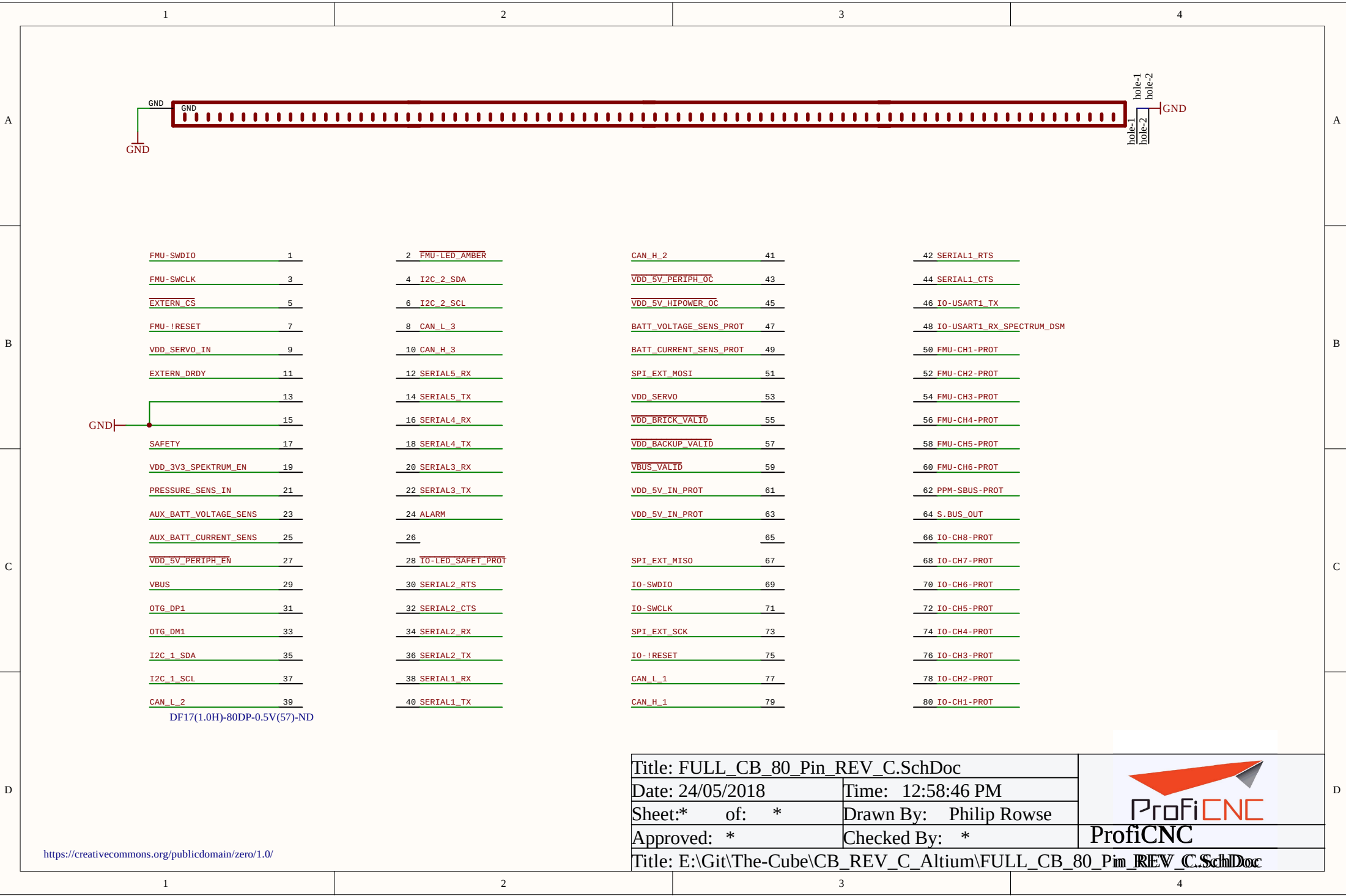
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Title <i>IMU For The CUBE</i>			Proficnc Black Hill Ballarat Victoria 3350 Australia	
Size: A4	Number:*	Revision:3		
Date: 24/05/2018	Time: 12:12:50 PM	Sheet 1 of 1		
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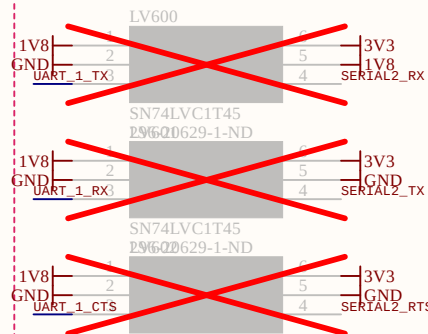


W08-7-808



Title: FULL_CB_80_Pin_REV_C.SchDoc		 ProFiCNC
Date: 24/05/2018	Time: 12:58:46 PM	
Sheet:* of: *	Drawn By: Philip Rowse	
Approved: *	Checked By: *	
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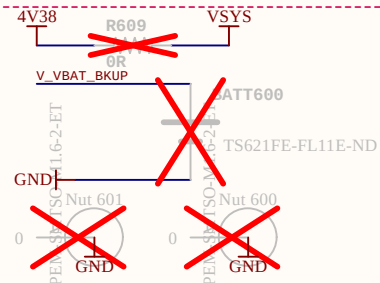
A



B

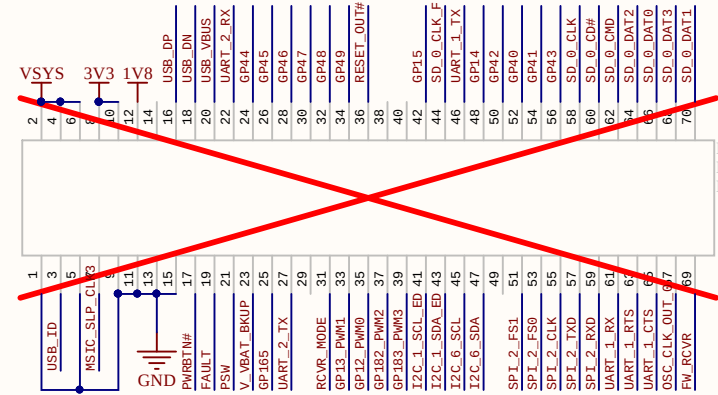
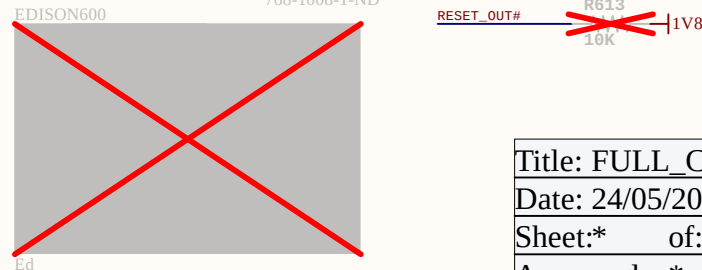
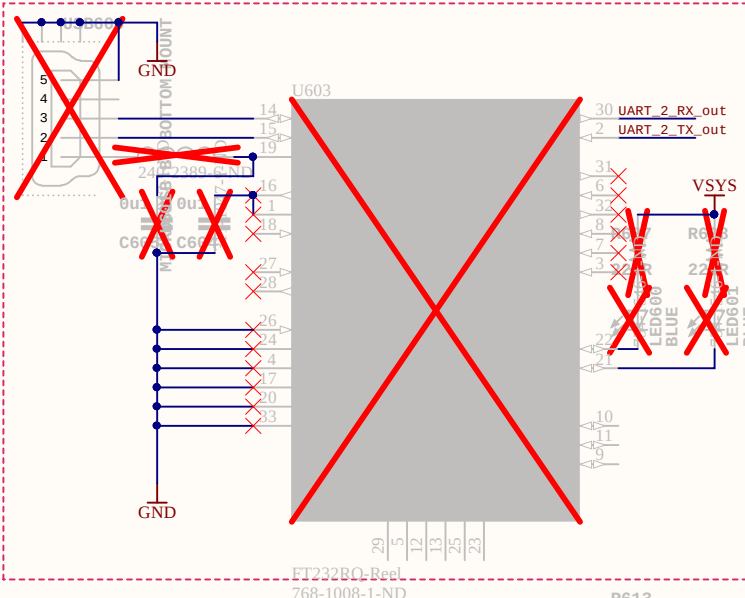
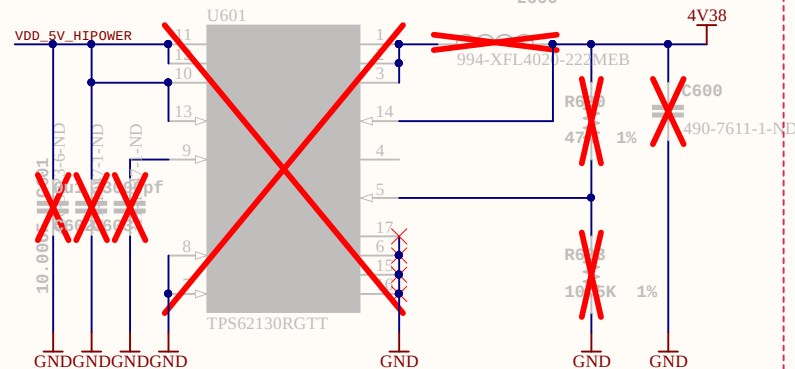


C



D

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A

B

C

D

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Date: 24/05/2018

Time: 12:58:46 PM

Sheet:* of: *

Drawn By: Philip Rowse

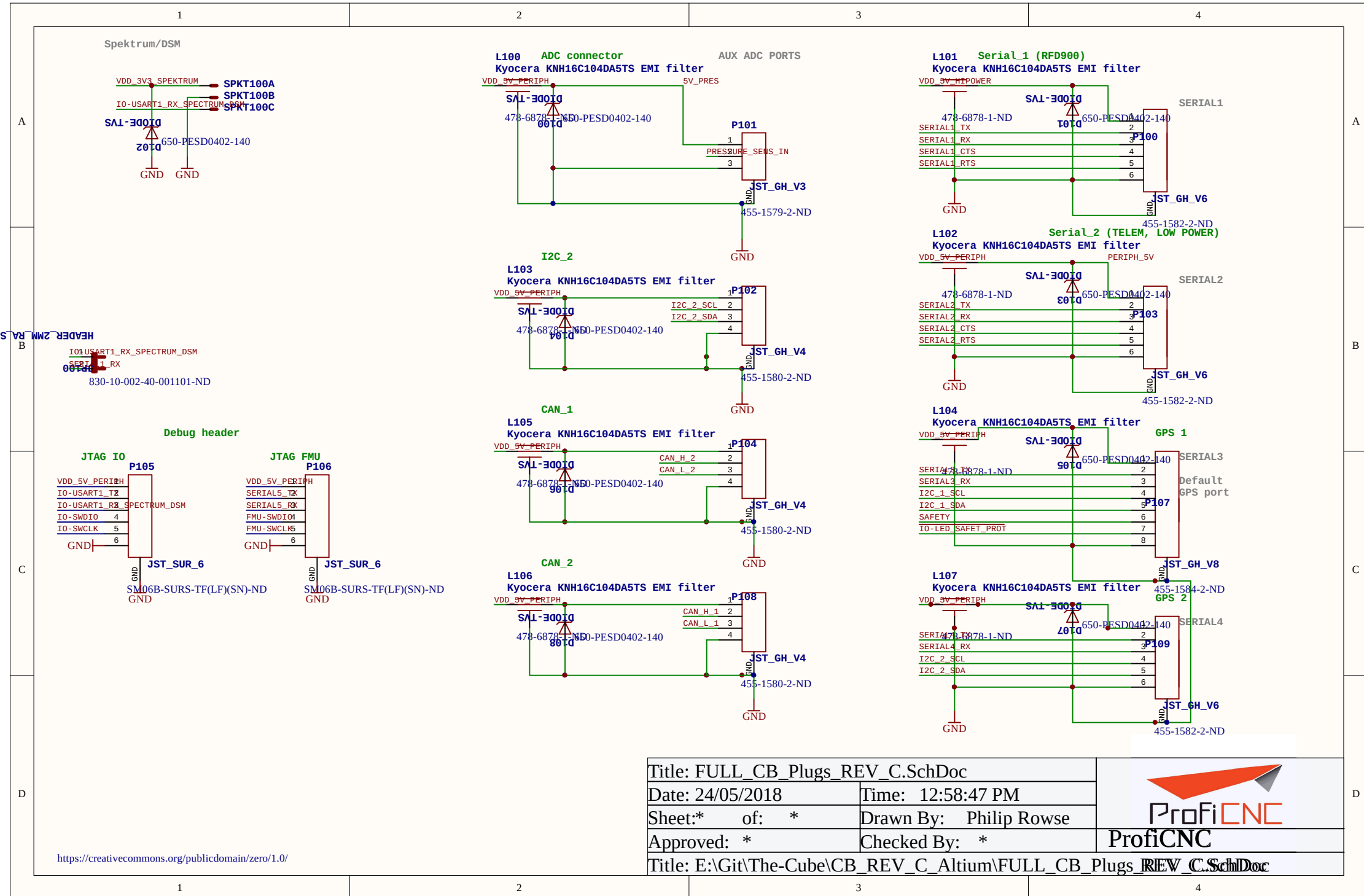
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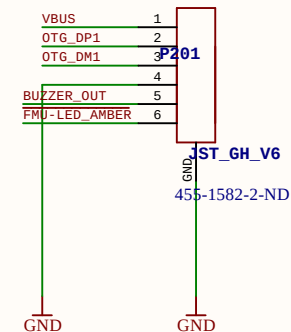
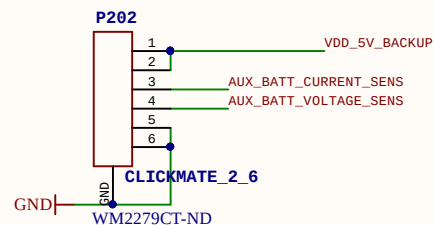
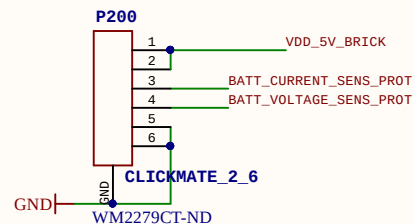
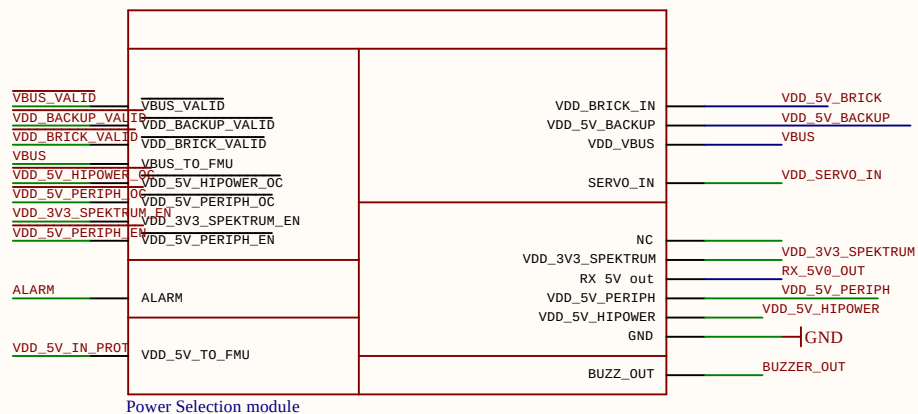
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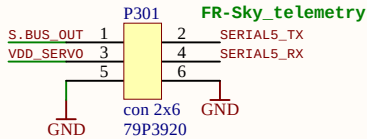


ProFiCNC





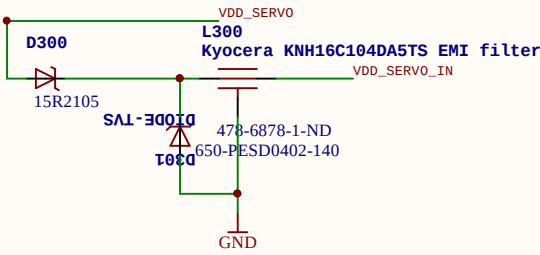
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Sheet:* of: *	Drawn By: Philip Rowse	
Approved: *	Checked By: *	
Title: E:\Git\The-Cube\CB_REV_C_Altium\FULL_CB_Power_REV_C.SchDoc		



FMU-CH1-PROT	1	P304	FMU-CH6
FMU-CH2-PROT	2		FMU-CH5
FMU-CH3-PROT	3		FMU-CH4
FMU-CH4-PROT	4		FMU-CH3
FMU-CH5-PROT	5		FMU-CH2
FMU-CH6-PROT	6		FMU-CH1
IO-CH1-PROT	7		IO-CH1
IO-CH2-PROT	8		IO-CH2
IO-CH3-PROT	9		IO-CH3
IO-CH4-PROT	10		IO-CH4
IO-CH5-PROT	11		IO-CH5
IO-CH6-PROT	12		IO-CH6
IO-CH7-PROT	13		IO-CH7
IO-CH8-PROT	14		IO-CH8
PPM-SBUS-PROT	15		PPM In

GND	GND	GND
VDD_SERVO	SERVO VCC	SERVO VCC
RX_5V0_OUT	RX 5V	RX 5V

PH_2 Servo header



1

2

3

4

A

B

C

D

~~S1TX~~
~~S1RX~~
~~S2TX~~
~~S2RX~~
~~S3TX~~
~~S3RX~~
~~S4TX~~
~~S4RX~~
~~S5TX~~
~~S5RX~~

~~ADC_PR~~
~~PRESSURE_SENS_IN~~
~~PAD.04~~

~~D_RDY1~~
~~EXTN_DRDY~~
~~SPI_CSCK1~~
~~SPI_EXT_CSCK~~
~~PAD.04~~
~~SPI_MISO1~~
~~SPI_EXT_MISO~~
~~PAD.04~~
~~SPI_MOSI1~~
~~SPI_EXT_MOSI~~
~~PAD.04~~
~~SPI_CS1~~
~~EXTN_CS~~
~~PAD.04~~



Fiducials for machine
vision alignment.

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Title: FULL_CB_tp_REV_C.SchDoc

Date: 24/05/2018

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Sheet:* of: *

Drawn By: Philip Rowse

Approved: *

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1

2

3

4