



Revision History:

Date:	Revision:	Comments:
<hr/>		
		Initial Revision
		Additional Notes:


Important Notes about this Schematic:

DESIGN NOTE:
Design notes in gray text boxes give information about design requirements and descisions.

LAYOUT NOTE:
Layout notes in red text boxes give infomation regarding layout requirements.

Revision History and Table of Contents



Title: Revision & History			
Size: A	Project ECE453 F24 Staff Dev Board	Rev: A	Sheet: 1 of 4
<div><div><div><div>THE UNIVERSITY</div><div>of</div><div>WISCONSIN</div><div>MADISON</div></div></div><div>College of Engineering 1415 Engineering Drive Madison, WI 53706</div></div>			

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A

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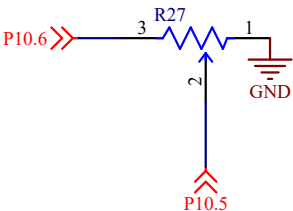
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Title:

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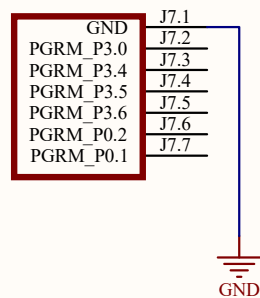
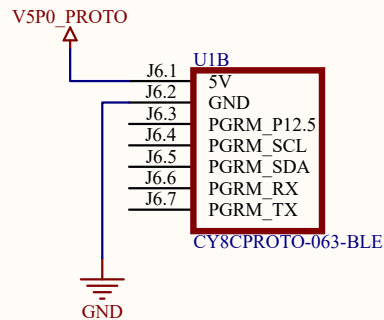
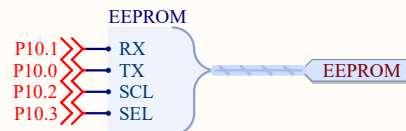
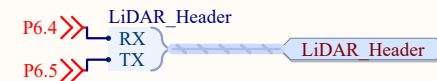
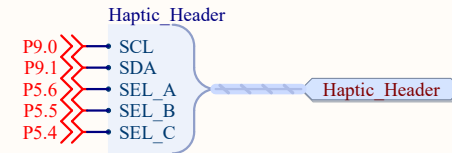
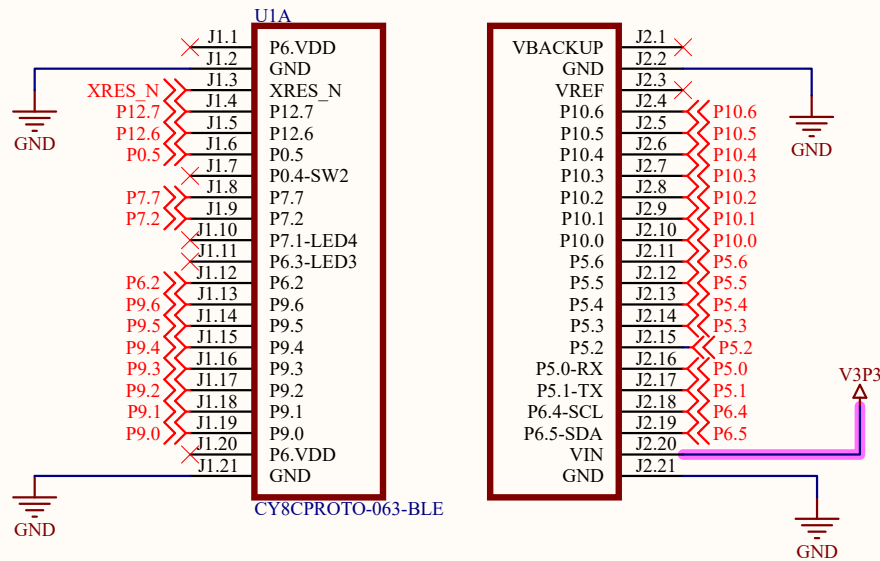
College of Engineering
1415 Engineering Drive
Madison, WI 53706

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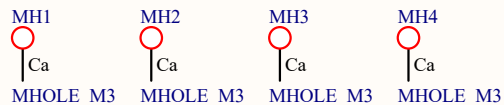


The following Pins are currently used by the CY8CPROTO-063 Dev Kit

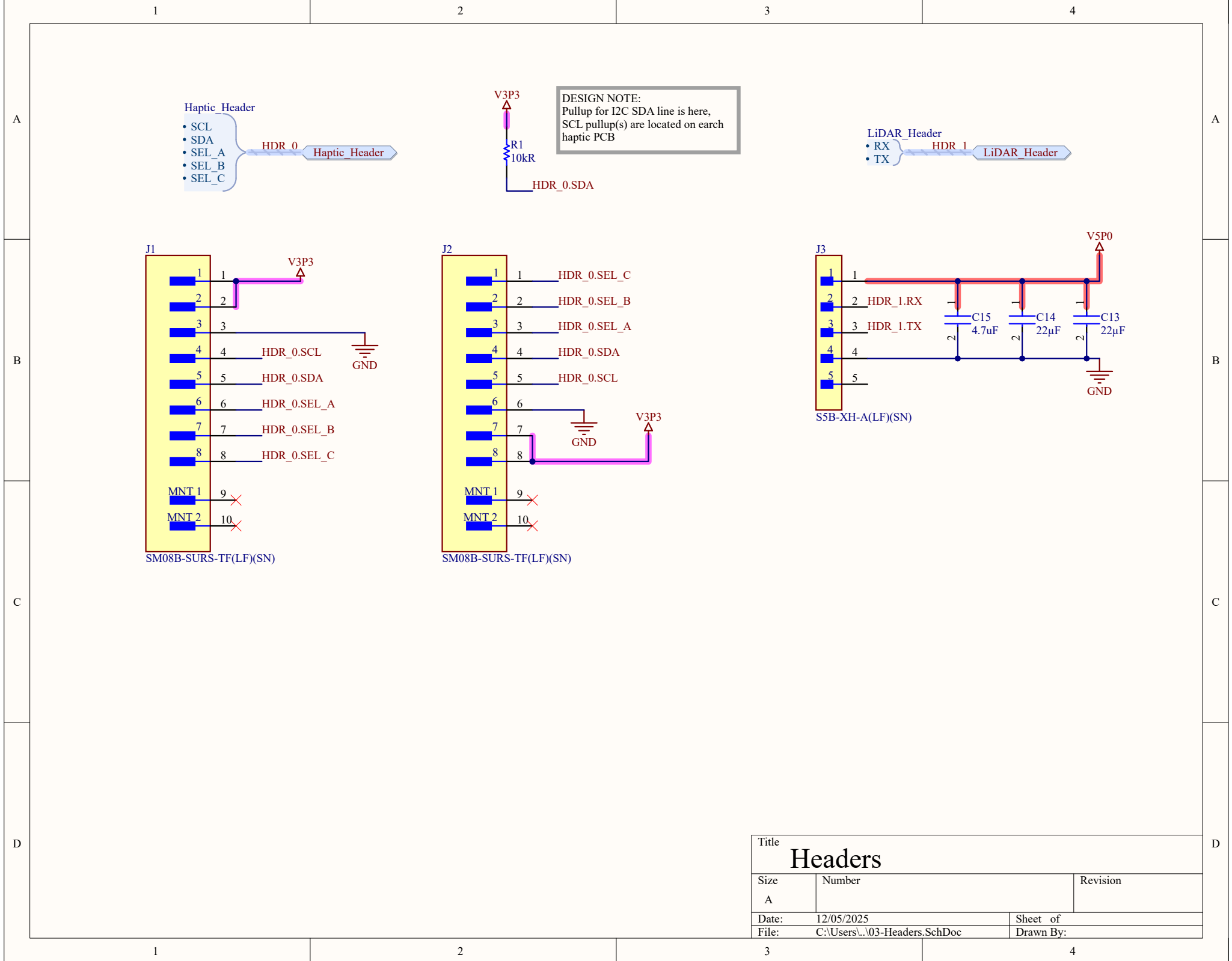
P5.0 - Console Rx
P5.1 - Console Tx
P7.1 - Green LED
P6.3 - Red LED
P0.4 - Push Button

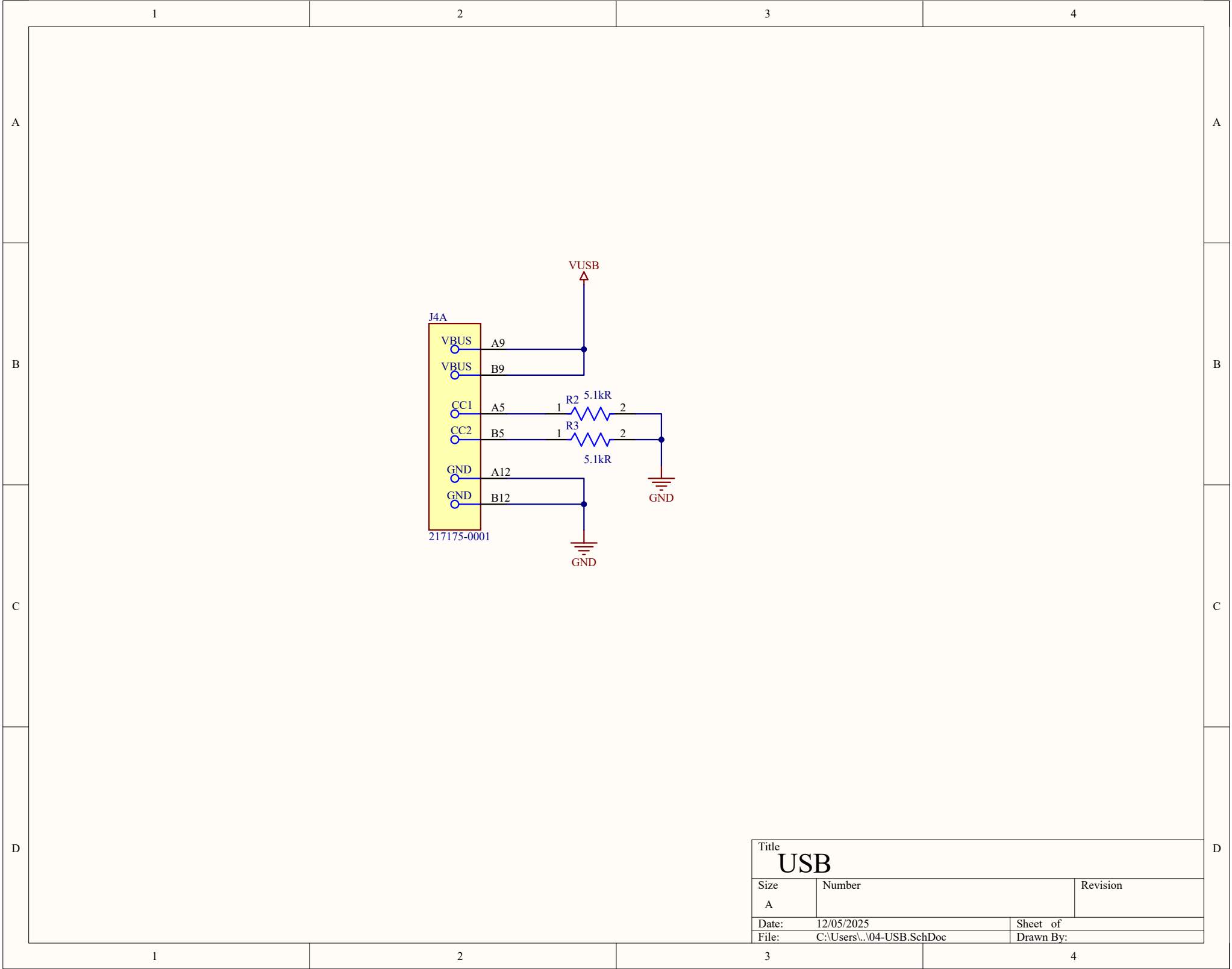
CY8CPROTO-063-BLE Connectors

Mounting Holes

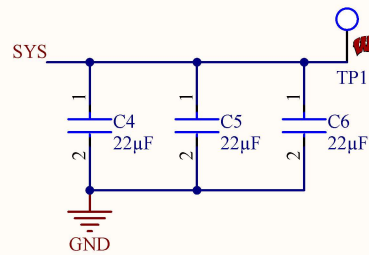
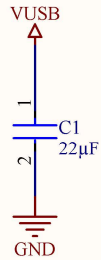


Title MCU		
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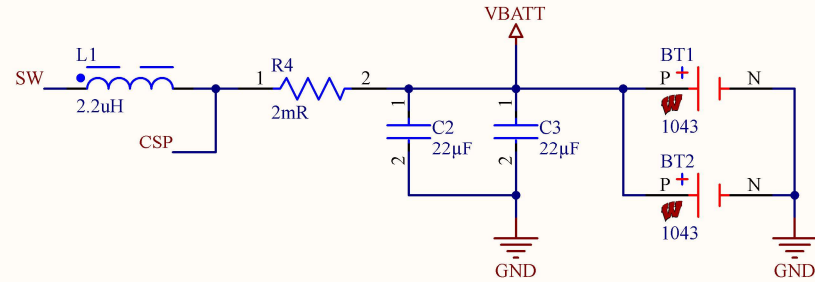




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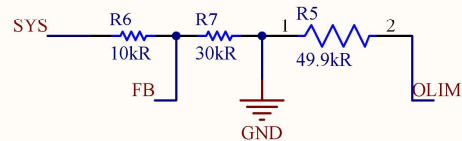


DESIGN NOTE:
Power switch will be
connected to bridge
test points



A

B

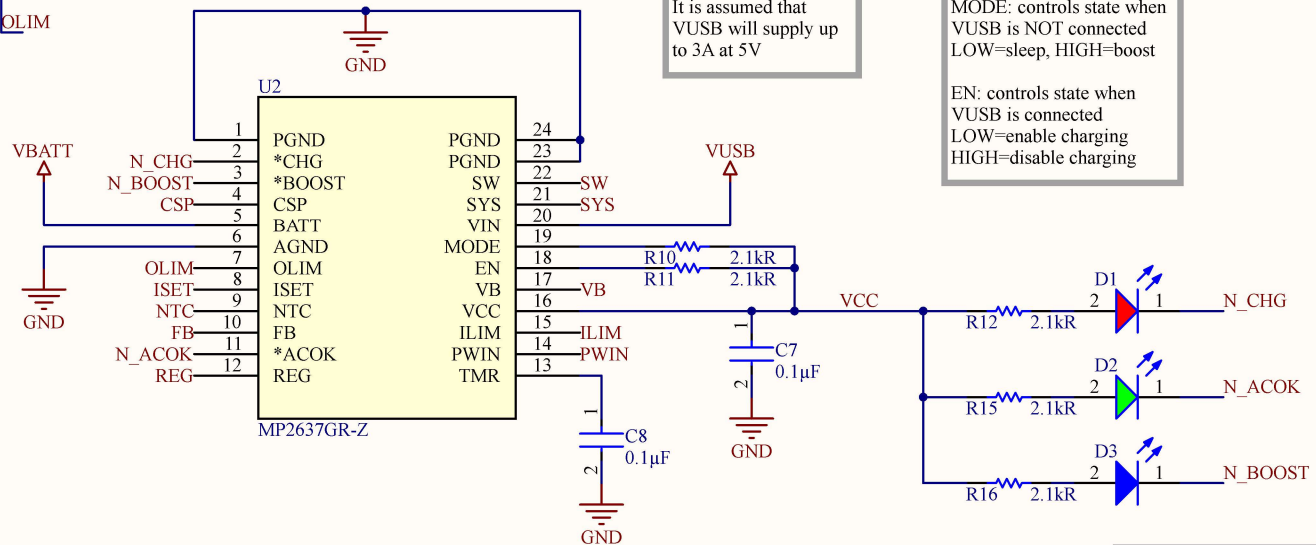
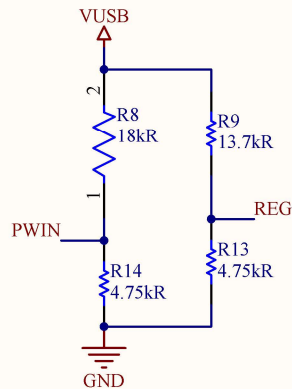


DESIGN NOTE:
It is assumed that
VUSB will supply up
to 3A at 5V

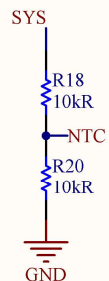
MODE: controls state when
VUSB is NOT connected
LOW=sleep, HIGH=boost

EN: controls state when
VUSB is connected
LOW=enable charging
HIGH=disable charging

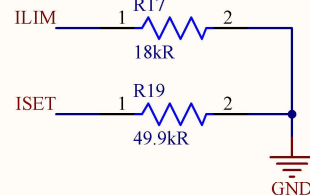
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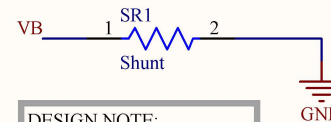


NTC Voltage divider is set
up for not using any
thermistor



ILIM: 2.5A, Input current
limit in charge mode

ISET: 2.4A, Charge current



DESIGN NOTE:
VB floating for 4.2V BATT
VB GND for 4.35V BATT

LED (on) indicators:
N_CHG (red): Battery is charging
N_ACOK (green): Valid power
supply
N_BOOST (blue): Using battery
power

NOTE: The LEDs used may need to
be swapped out for some with a
lower forward current

D

D

Title

Power A

Size

A

Number

Revision

Date:

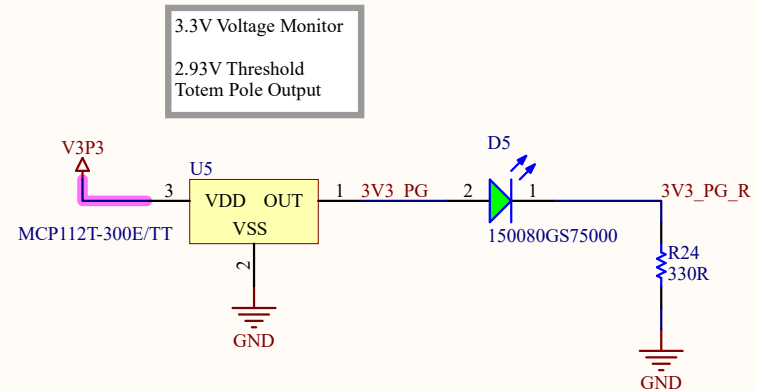
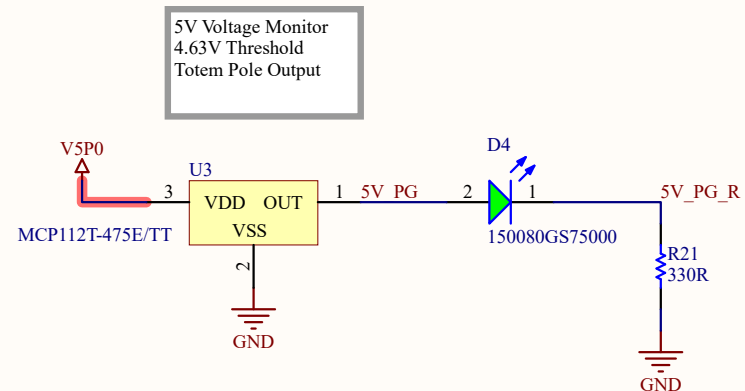
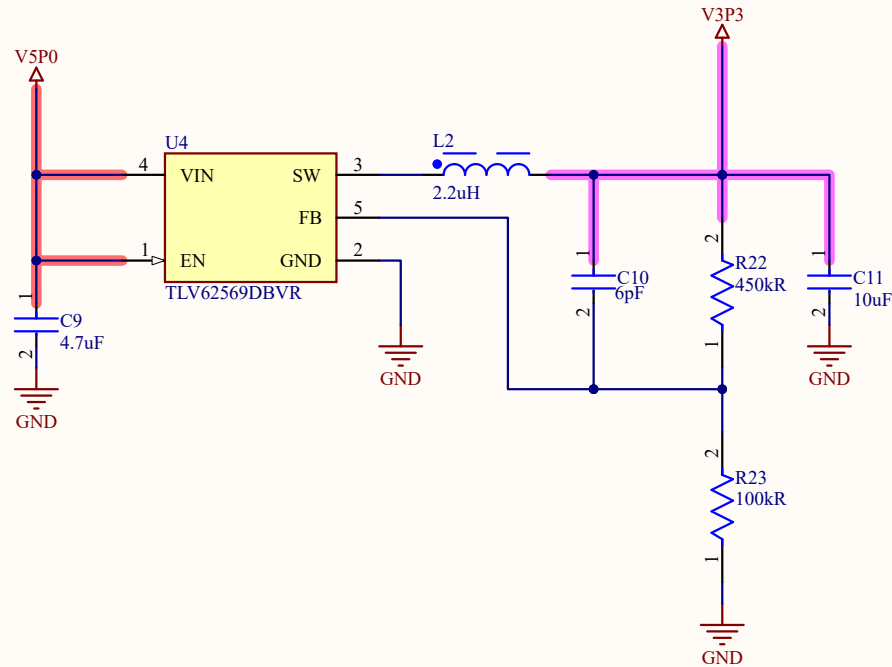
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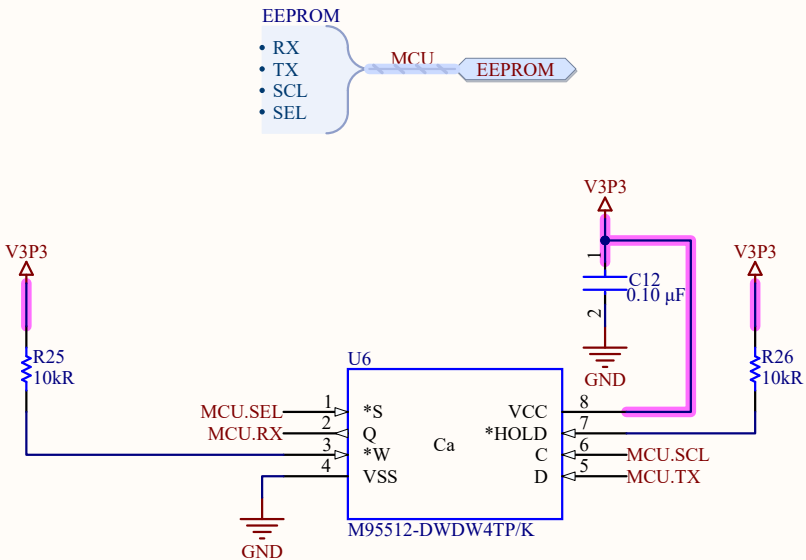
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Title		
Power B		
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Title		
EEPROM		
Size	Number	Revision
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