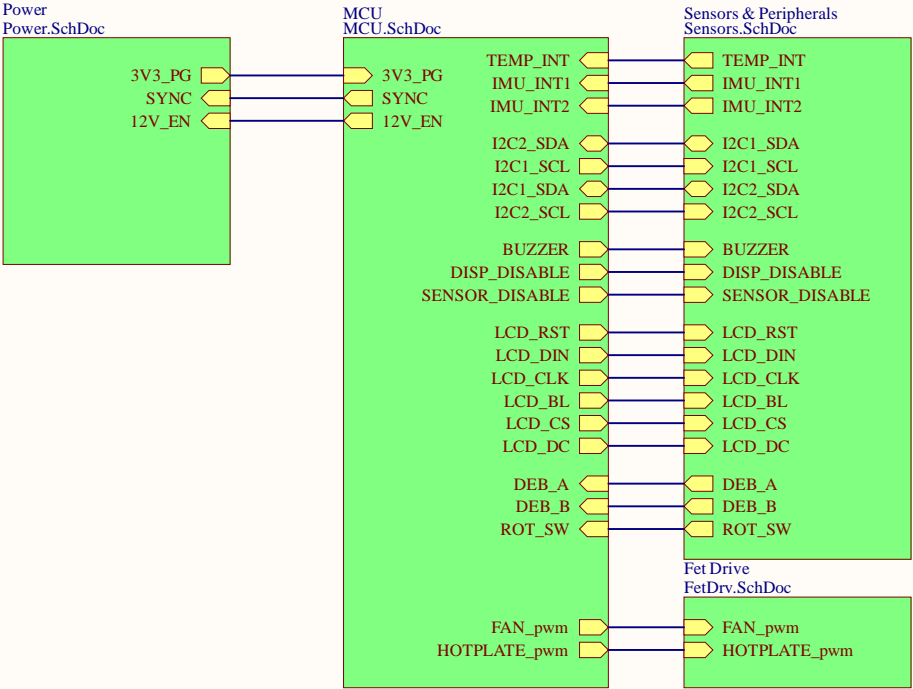


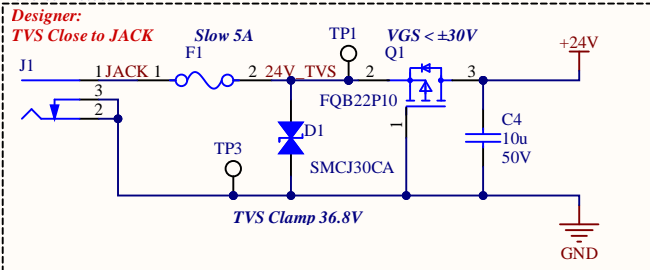
SMD Reflow Project



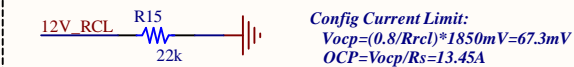
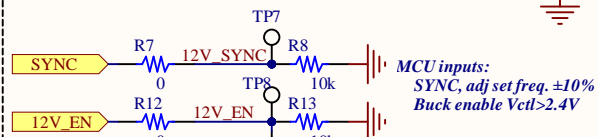
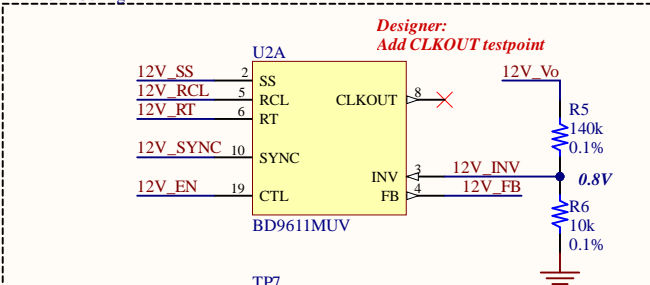
Title <i>SMD Reflow Hotplate: Main Schematic</i>		
Size A4	Number <i>1</i>	Revision <i>0</i>
Date:	6-23-2022	Sheet of
File:	E:\GitHub\...\Main.SchDoc	Drawn By: <i>Jesse Farrell</i>

Main Power

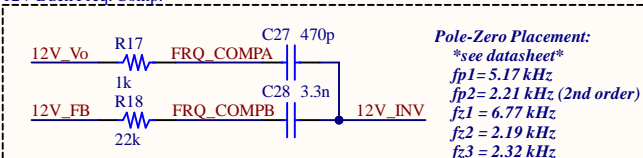
Reverse Protection



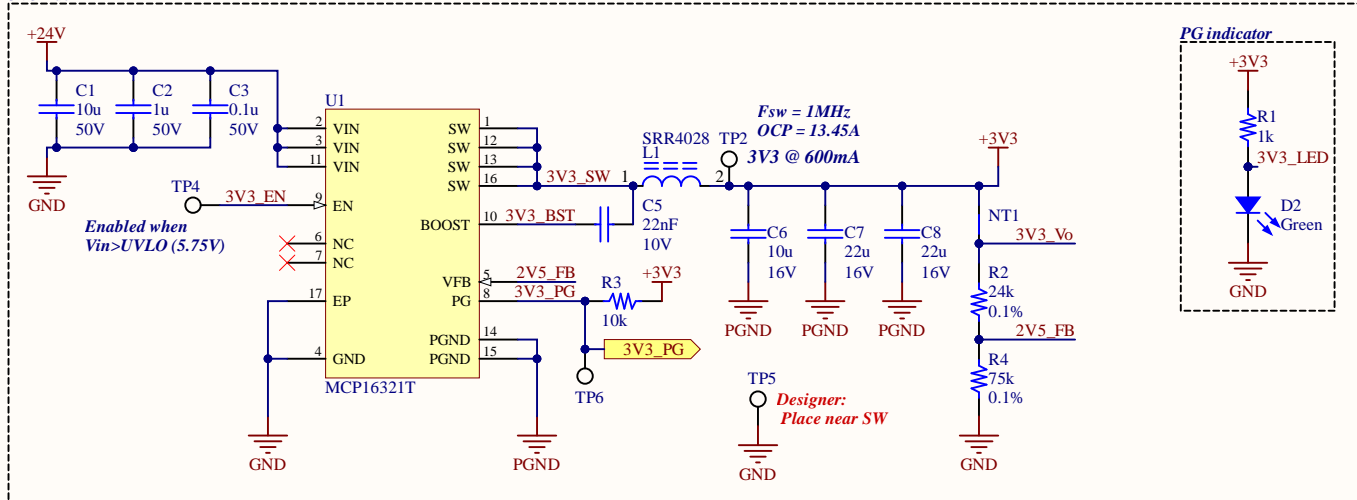
12V Buck Config



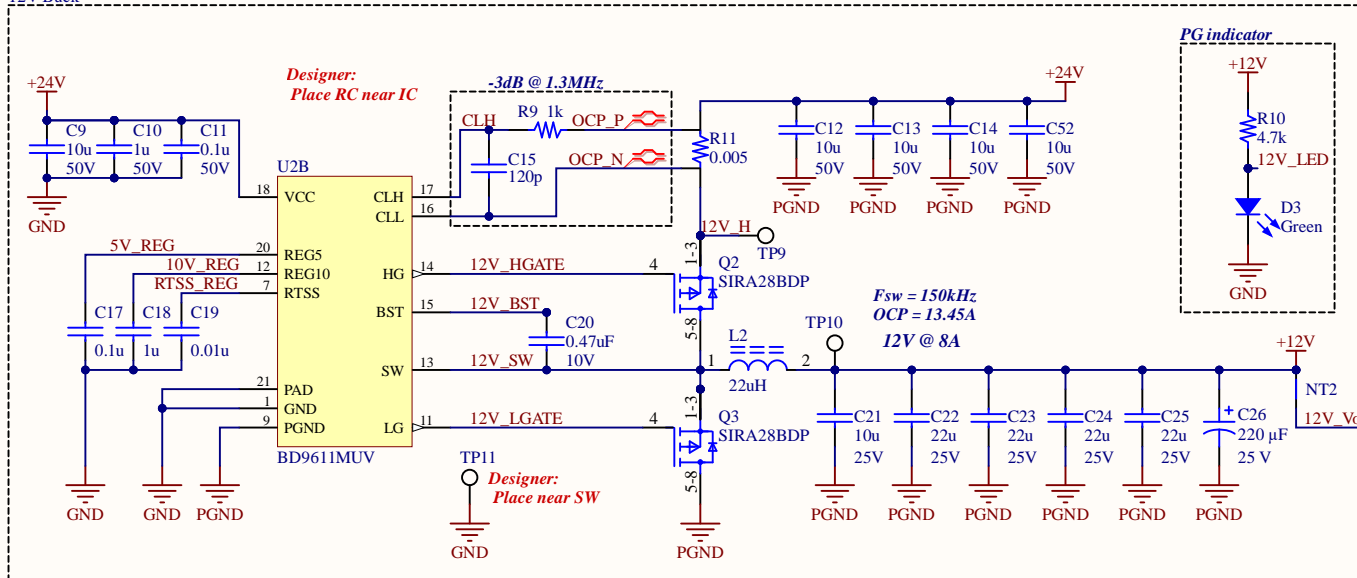
12V Buck Freq. Comp.



3V3 Buck



12V Buck

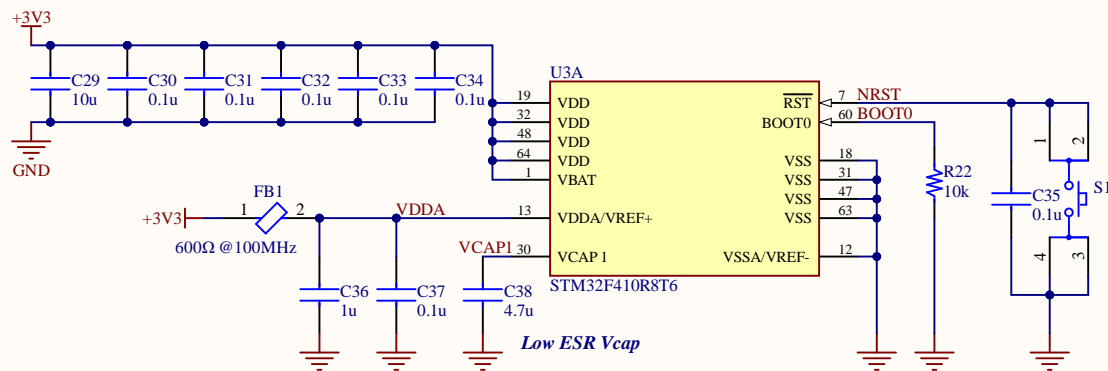


Title
SMD Reflow Hotplate: Power

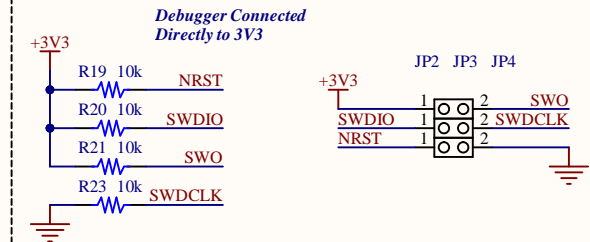
Size	Number	Revision
A4	2	0
Date:	6-23-2022	Sheet of
File:	E:\GitHub\...\Power.SchDoc	Drawn By: Jesse Farrell

Microcontroller

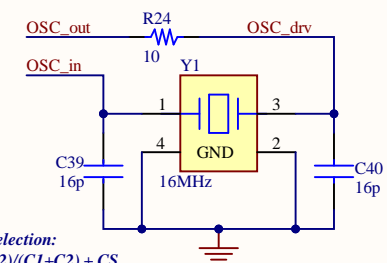
Decoupling & Config



Debug Header

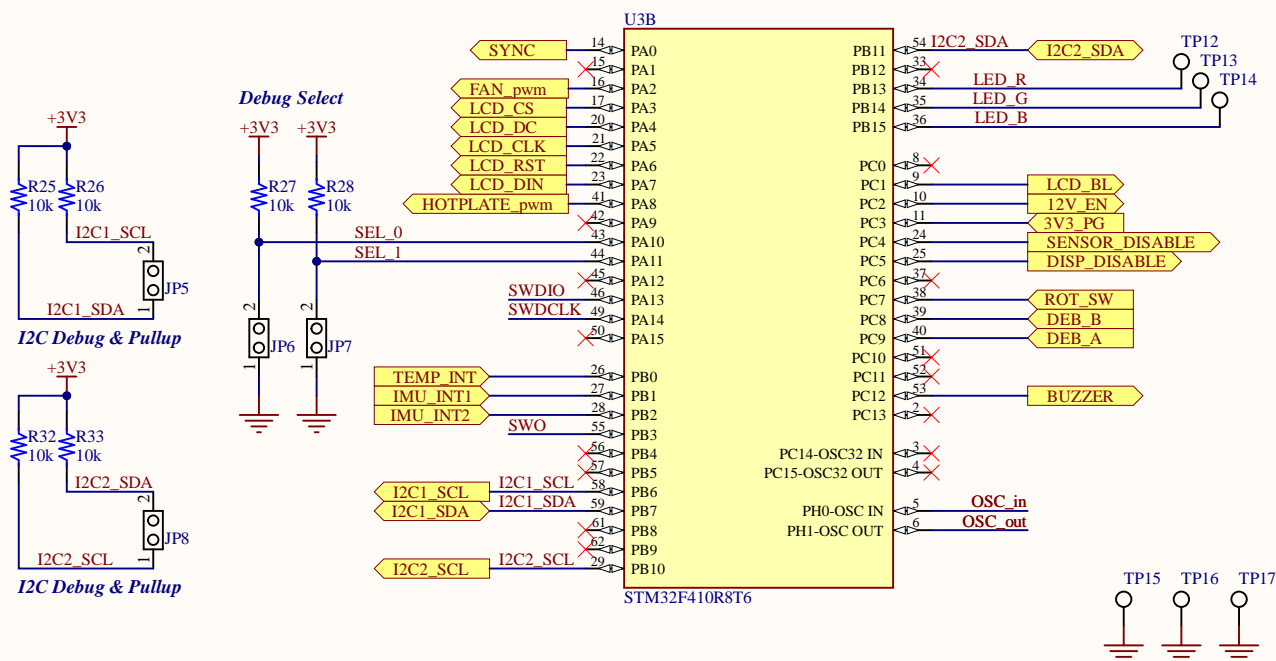


External Clock

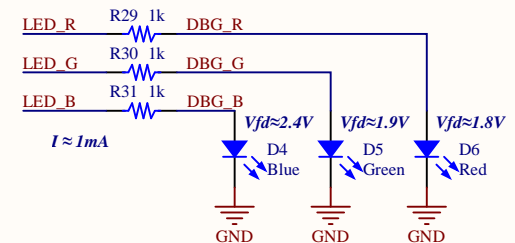


Capacitor Selection:
 $C_L = (C1 * C2) / (C1 + C2) + CS$
 $C_L = 12pF, C1 = C2, CS \approx 4pF$
 $C = 16pF$

MCU I/O



Debug LEDs

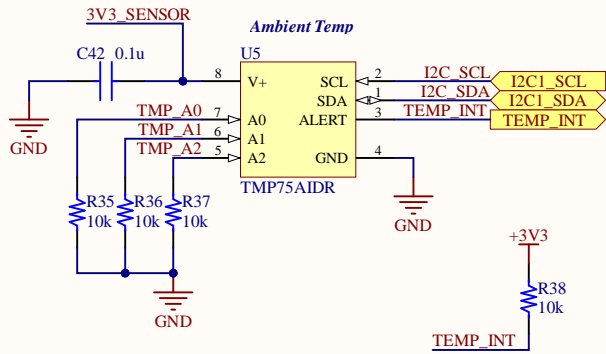


Title <i>SMD Reflow Hotplate: Microcontroller</i>		
Size A4	Number 3	Revision 0
Date: 6-23-2022	Sheet of	
File: E:\GitHub\...\MCU_SchDoc	Drawn By:	<i>Jesse Farrell</i>

SENSORS & PERIPHERALS

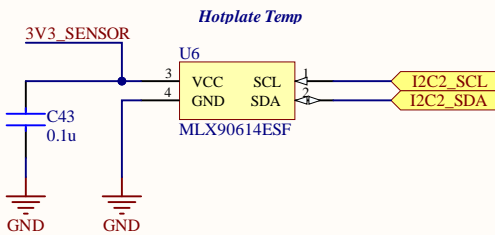
Temp Sense 1

Address: 0b1001000



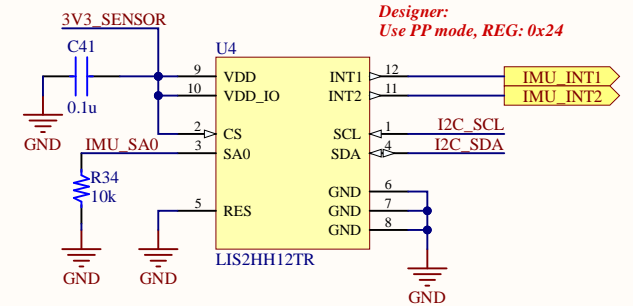
Temp Sense 2

Address: 0b01011011

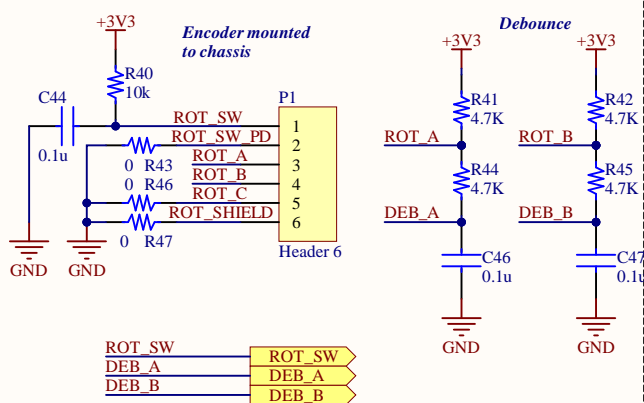


IMU

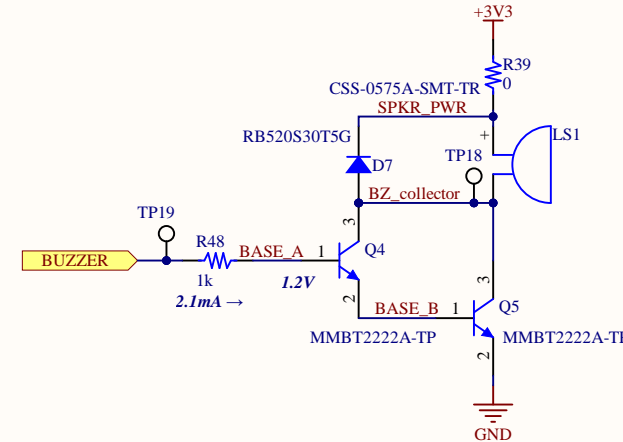
Address: 0b0011110



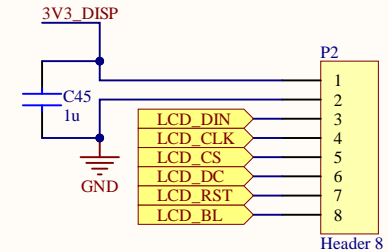
Rotary Encoder



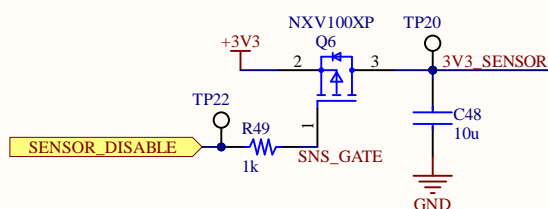
Buzzer



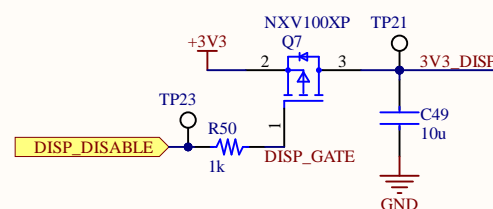
LCD I/O



Sensor Force RESET



Display Force RESET



Title SMD Reflow Hotplate: Sensors and Peripherals		
Size A4	Number 4	Revision 0
Date: 6-23-2022	Sheet of	
File: E:\GitHub\...\Sensors.SchDoc	Drawn By: Jesse Farrell	

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