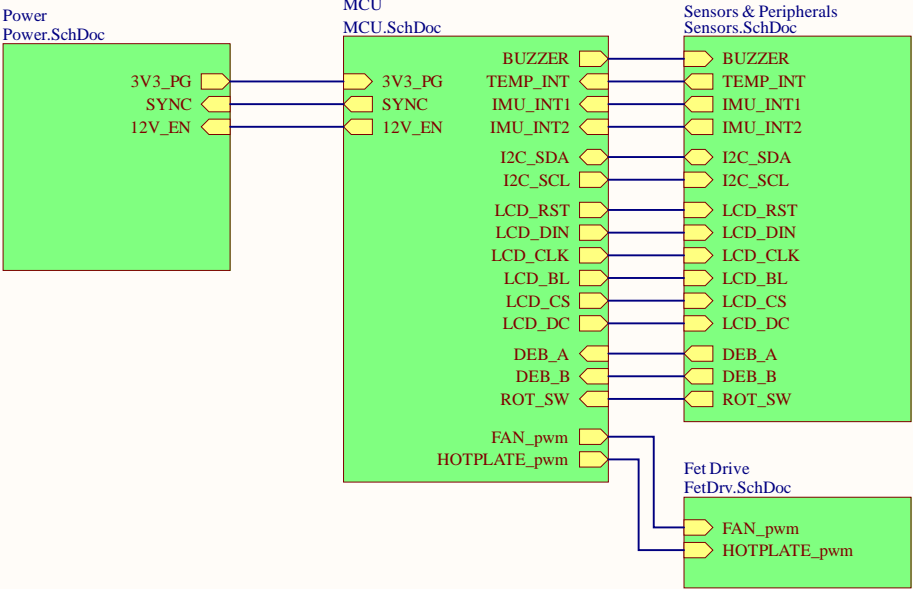


# SMD Reflow Project



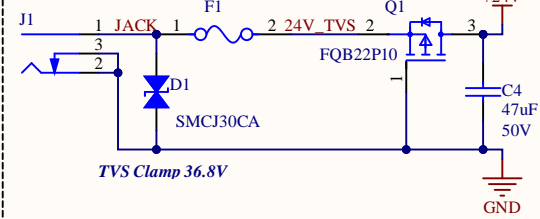
Title <i>SMD Reflow Hotplate: Main Schematic</i>		
Size A4	Number <i>1</i>	Revision <i>0</i>
Date:	6-19-2022	Sheet of
File:	E:\GitHub\...\Main.SchDoc	Drawn By: <i>Jesse Farrell</i>

# Main Power

## Reverse Protection

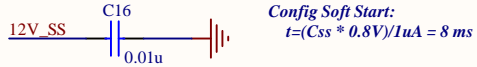
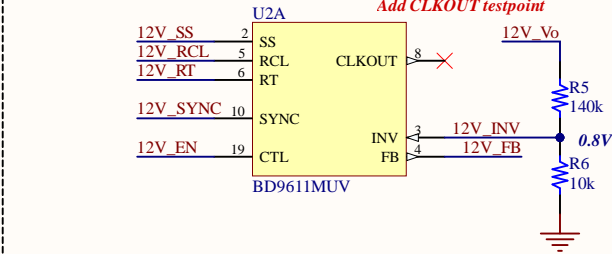
Designer:

TVS Close to JACK

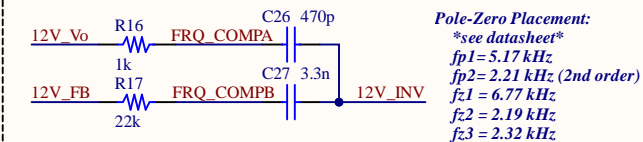


## 12V Buck Config

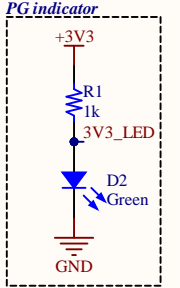
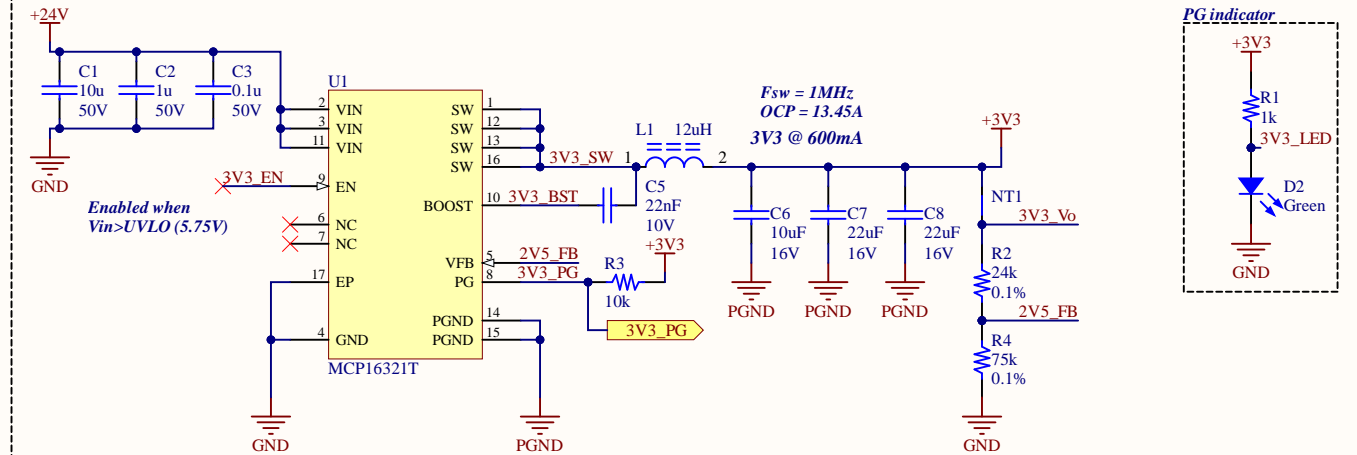
Designer:  
Add CLKOUT testpoint



## 12V Buck Freq. Comp.

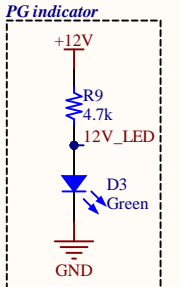
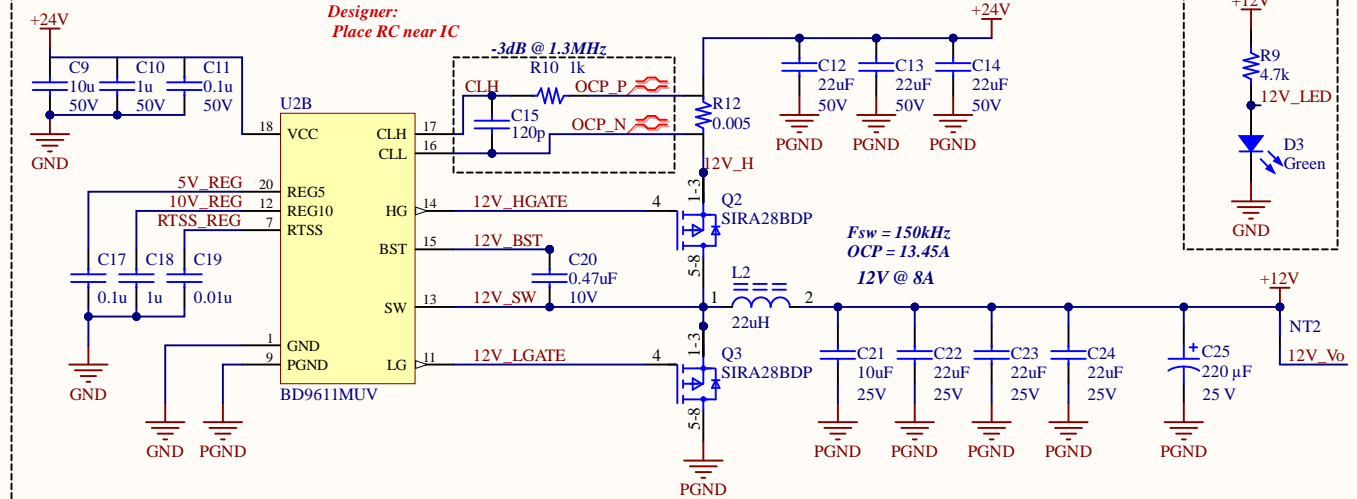


## 3V3 Buck



## 12V Buck

Designer:  
Place RC near IC

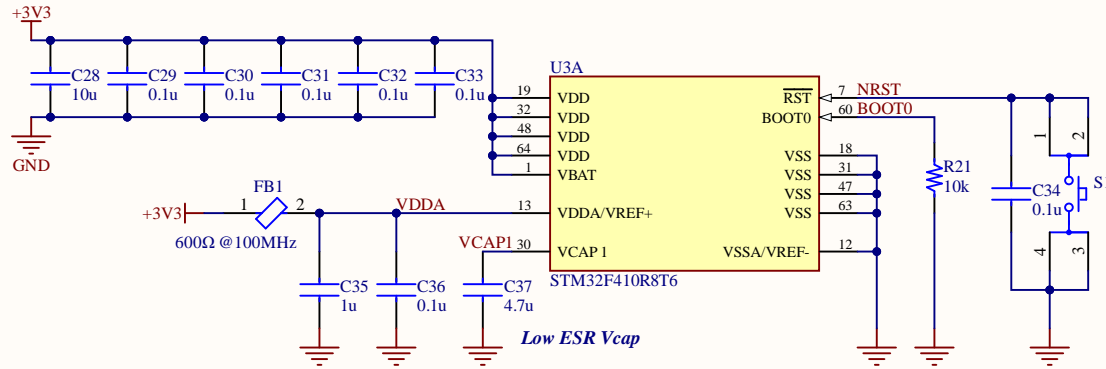


Title  
**SMD Reflow Hotplate: Power**

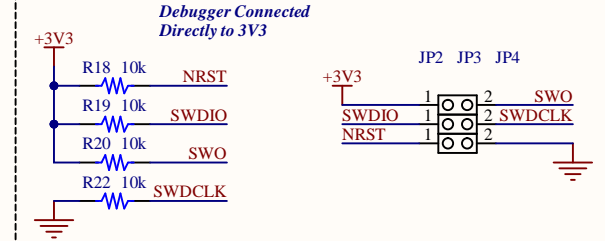
Size	Number	Revision
A4	1	0
Date:	6-19-2022	Sheet of
File:	E:\Git\Hub\...\Power.SchDoc	Drawn By: <b>Jesse Farrell</b>

# Microcontroller

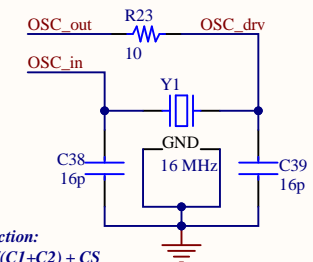
## Decoupling & Config



## Debug Header

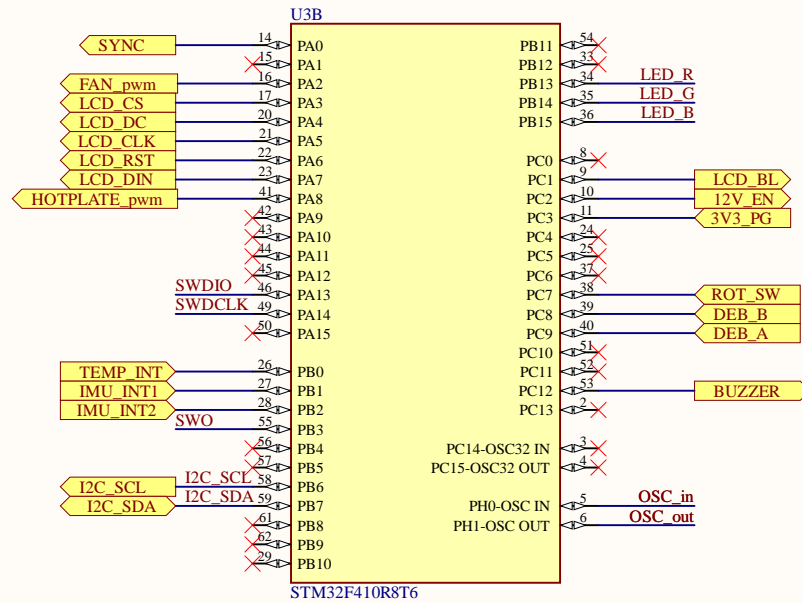


## External Clock

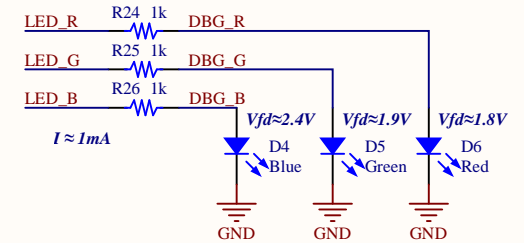


Capacitor Selection:  
 $C_L = (C1 * C2) / (C1 + C2) + C_S$   
 $C_L = 12pF, C1 = C2, C_S \approx 4pF$   
 $C = 16pF$

## MCU I/O



## Debug LEDs



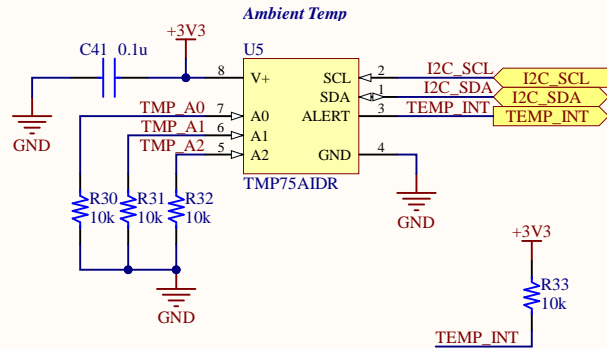
Title: **SMD Reflow Hotplate: Microcontroller**

Size	Number	Revision
A4	<b>1</b>	<b>0</b>
Date:	6-19-2022	Sheet of
File:	E:\Git\Hub\...\MCU.SchDoc	Drawn By: <b>Jesse Farrell</b>

# SENSORS & PERIPHERALS

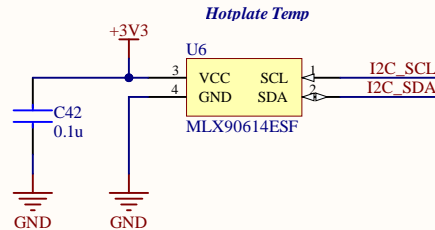
Temp Sense 1

Address: 0b1001000



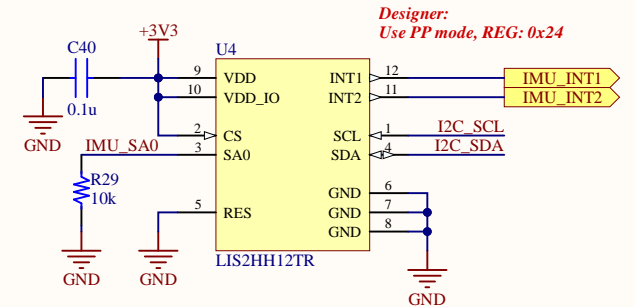
Temp Sense 2

Address: 0b01011011

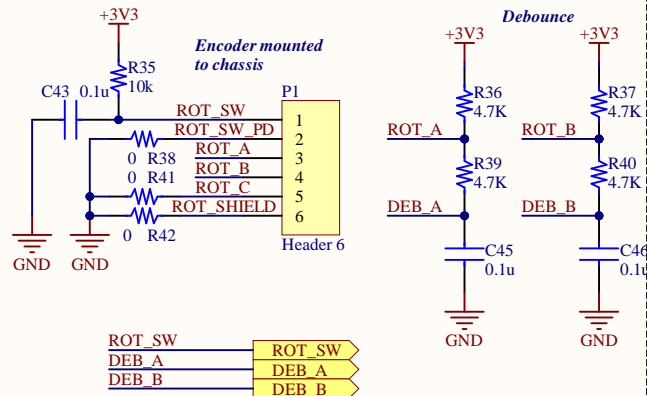


IMU

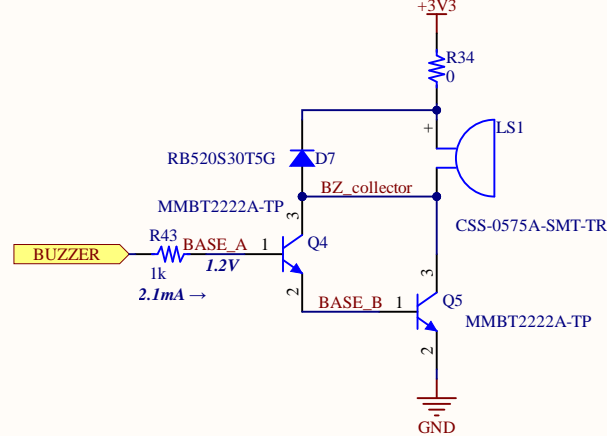
Address: 0b0011110



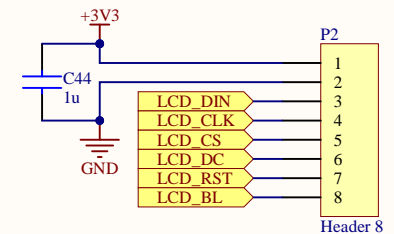
Rotary Encoder



Buzzer



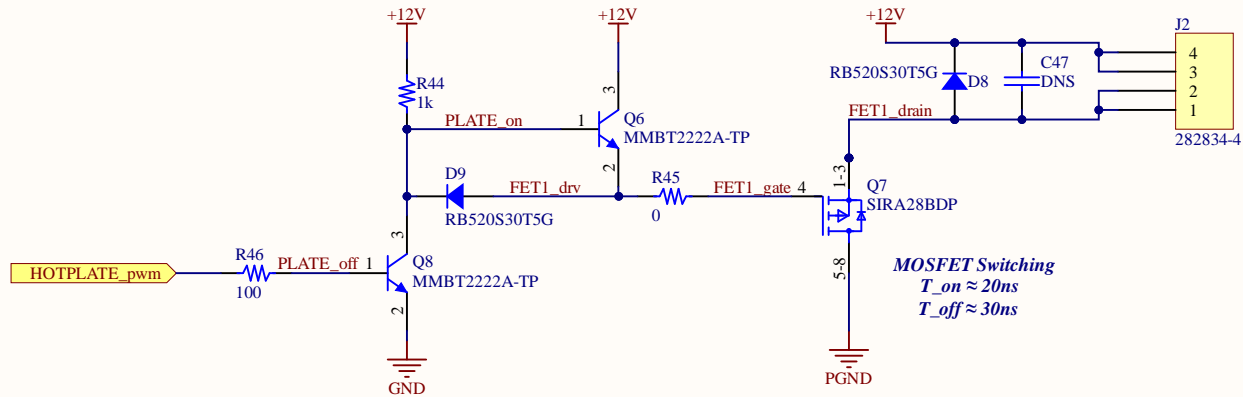
LCD I/O



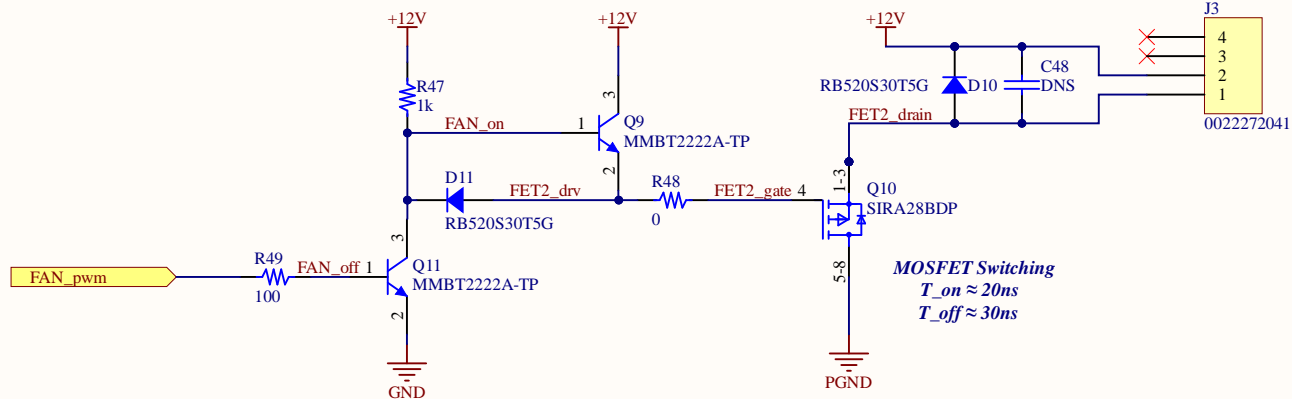
Title: <b>SMD Reflow Hotplate: Sensors and Peripherals</b>		
Size: A4	Number: <b>1</b>	Revision: <b>0</b>
Date: 6-19-2022	Sheet of	
File: E:\GitHub\...\Sensors.SchDoc	Drawn By: <b>Jesse Farrell</b>	

# FET DRIVERS

Hot Plate FET



Case Fan FET



Title <b>SMD Reflow Hotplate: Fet Drivers</b>		
Size A4	Number <b>1</b>	Revision <b>0</b>
Date: 6-19-2022	Sheet of	
File: E:\Github\...\FetDrv.SchDoc	Drawn By: <b>Jesse Farrell</b>	