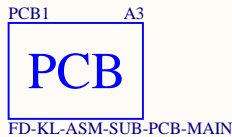


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6	POWER
7	NOISE
8	DEBUG
9	CHARGER

# FD-KL-ASM-SUB-PCB-MAIN

Revisions			
Rev	Description	Date	Approved
A1	Initial release for production	11/23/2021	M. Beach
A2	Added testpoints. Added some alternates to BOM.	11/29/2021	M. Beach
A3	Changed U1 to TPS79920YZU Added C87-89, TP85. Removed R1, C1.	12/11/2021	M. Beach
A4	DNI: U1, X1, C49, C55-56, C88-89 Changed R34 to 1k, R6 to 4.7k, R27 to 300, and R25 to 2.2k	04/19/2022	M. Beach
A5	Switched P19 from TL1014BF160QG to TL1014BF220QG	05/02/2022	M. Beach



## STM32H753

CAMERA HEADER

DEBUG

SECURE ELEMENT  
LCD / BACKLIGHT  
FLASH

AVALANCHE  
NOISE SOURCE

KEYPAD  
SD CARD  
JTAG

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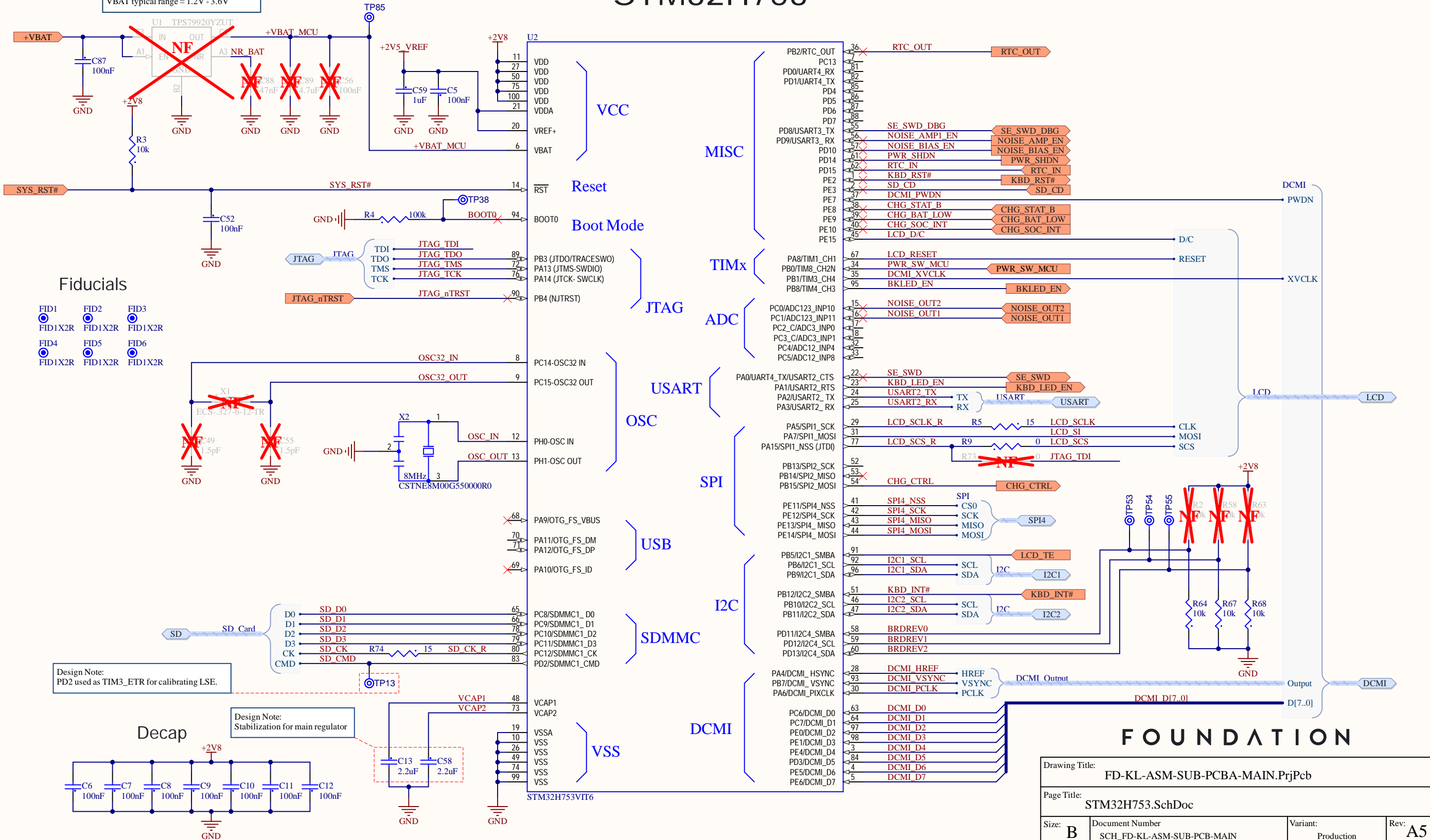
REGULATORS

CHARGER

Engineer: M. Beach	FOUNDATION			Foundation Devices Inc 6 Liberty Sq #6018 Boston, MA 02109	
Designer: M. Beach	Drawing Title: FD-KL-ASM-SUB-PCBA-MAIN.PrjPcb				
	Page Title: Title.SchDoc				
Approved: M. Beach Date: 12/11/2021	Size: B	Document Number SCH_FD-KL-ASM-SUB-PCB-MAIN	Variant: Production	Rev: A5	
	Date: 5/2/2022 11:19:14 AM		Sheet: 1 of 9		

# STM32H753

Design Note:  
VBAT absolute maximum rating = 4.0V.  
VBAT typical range = 1.2V - 3.6V



FOUNDATION

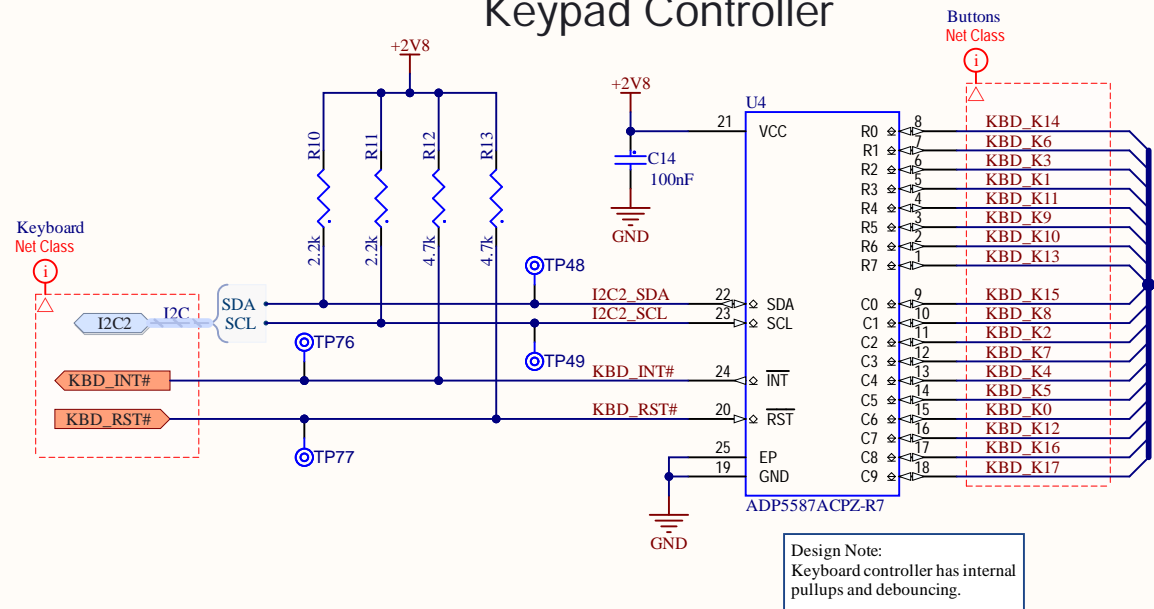
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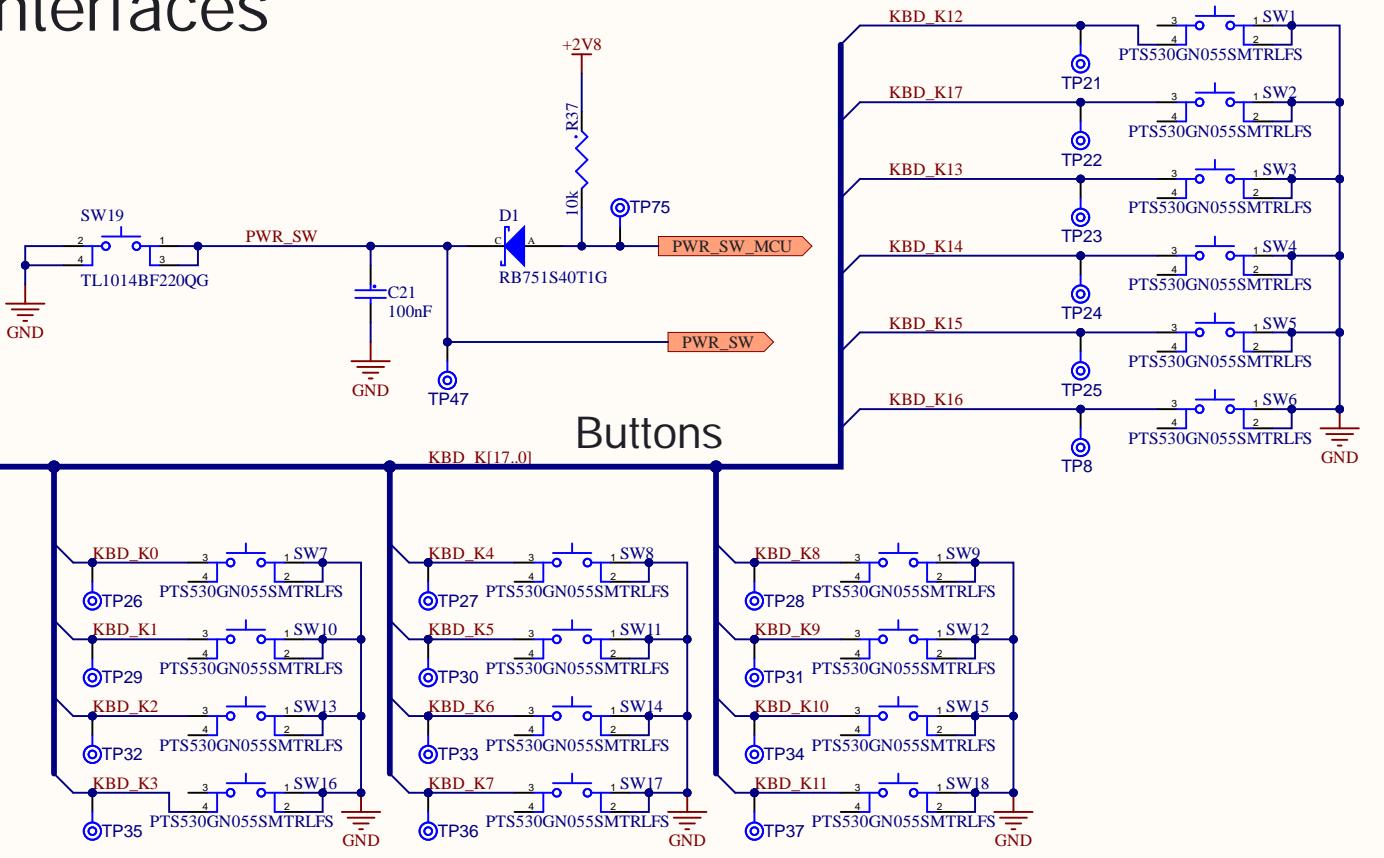
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# Interfaces

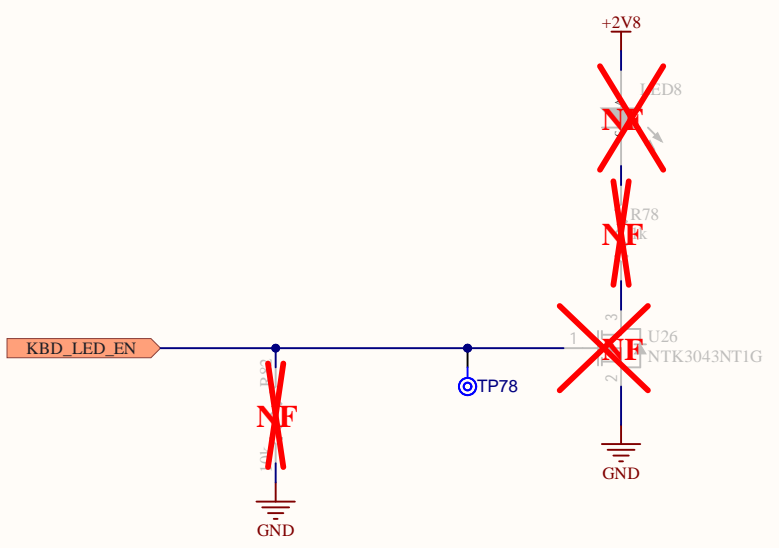
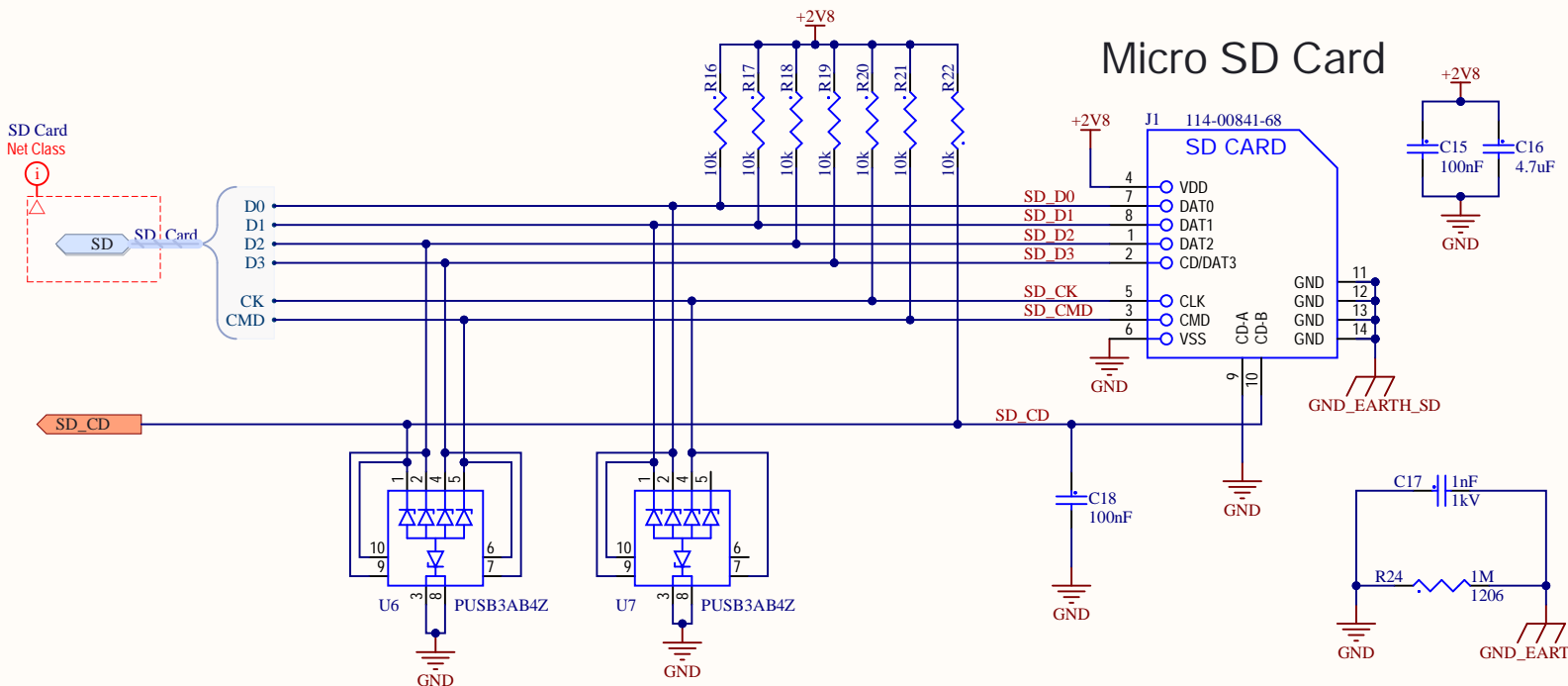
## Keypad Controller



## Buttons



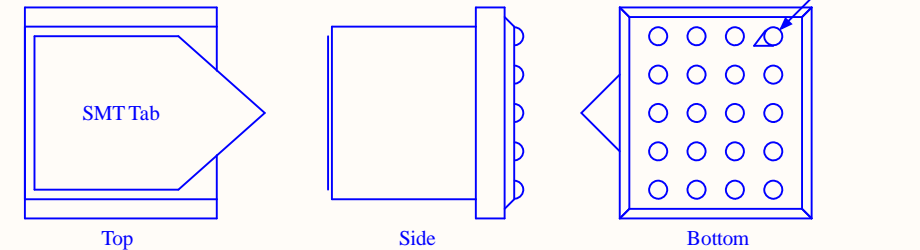
## Micro SD Card



## FOUNDATION

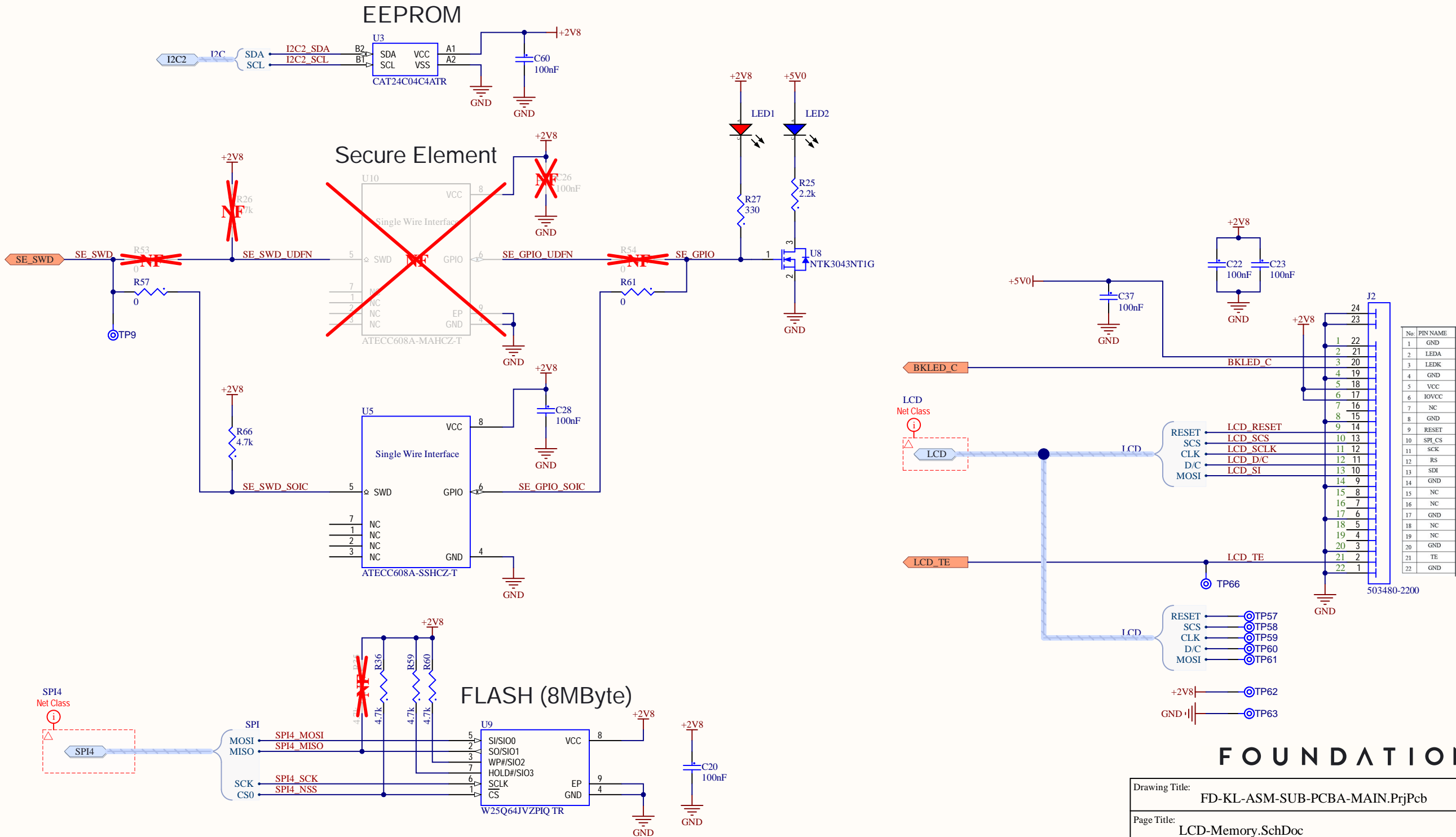
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## meraCube



Drawing Title: <b>FD-KL-ASM-SUB-PCBA-MAIN.PrfPcb</b>			
Page Title: <b>Camera.SchDoc</b>			
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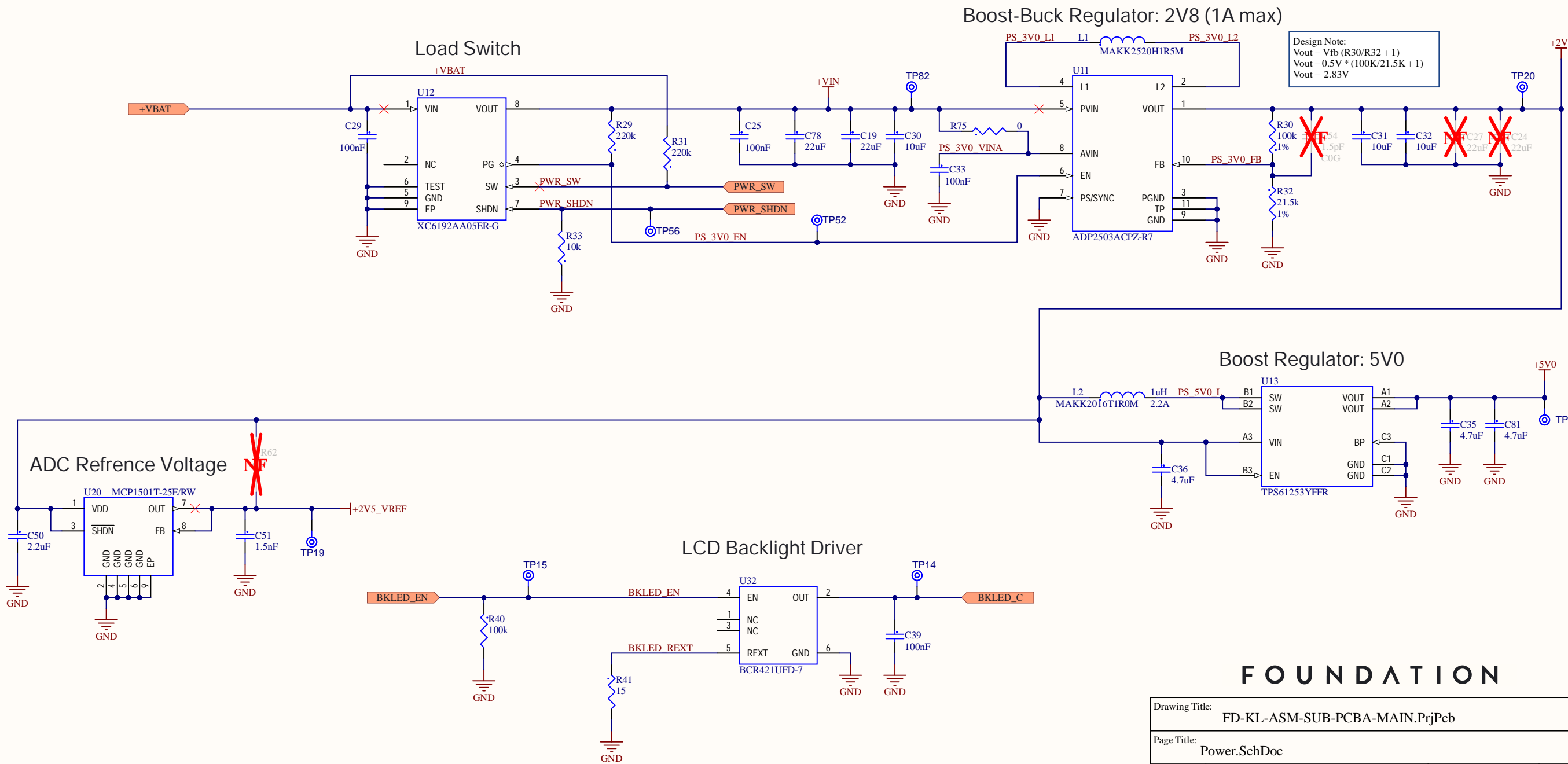
LCD, MEMORY



FOUNDATION

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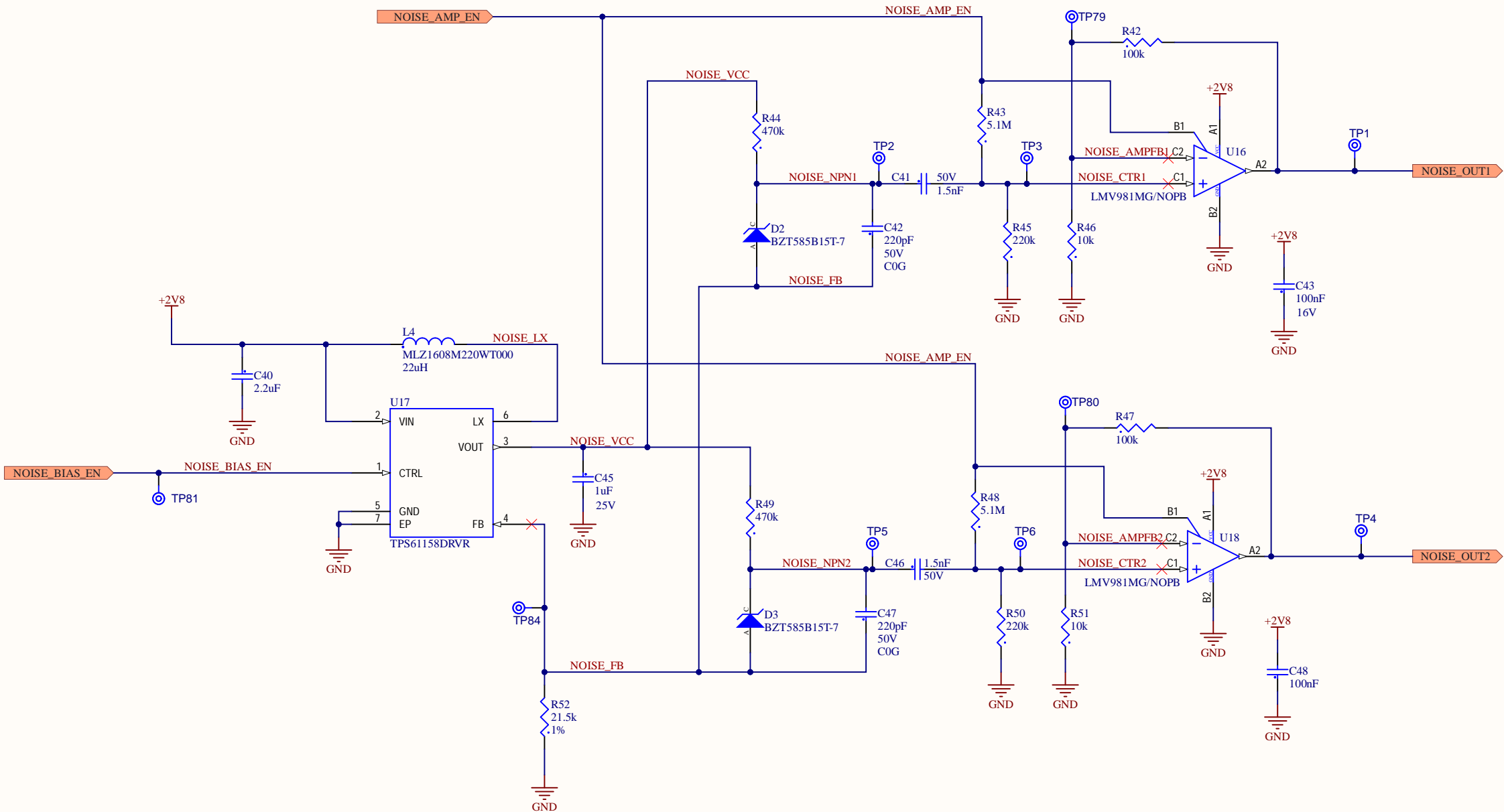
# Power Regulators



FOUNDATION

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# Avalanche Breakdown Noise Source



Circuit designed by:  
Andrew 'bunnie' Huang  
@bunniestudios  
[betrusted.io](http://betrusted.io)

FOUNDATION

Drawing Title: FD-KL-ASM-SUB-PCBA-MAIN.PrfPcb			
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