

Notes:
STM32 is powered by the 5V rail.

Battery info:
Battery voltage = 12.6V down to 7.5V (cut off)
Discharge current = 4A @35C
OC Protection = 4.8A continuous <2-4 seconds
OL Protection = 15.27A <23ms
SC Protection = 38.88A <916ns

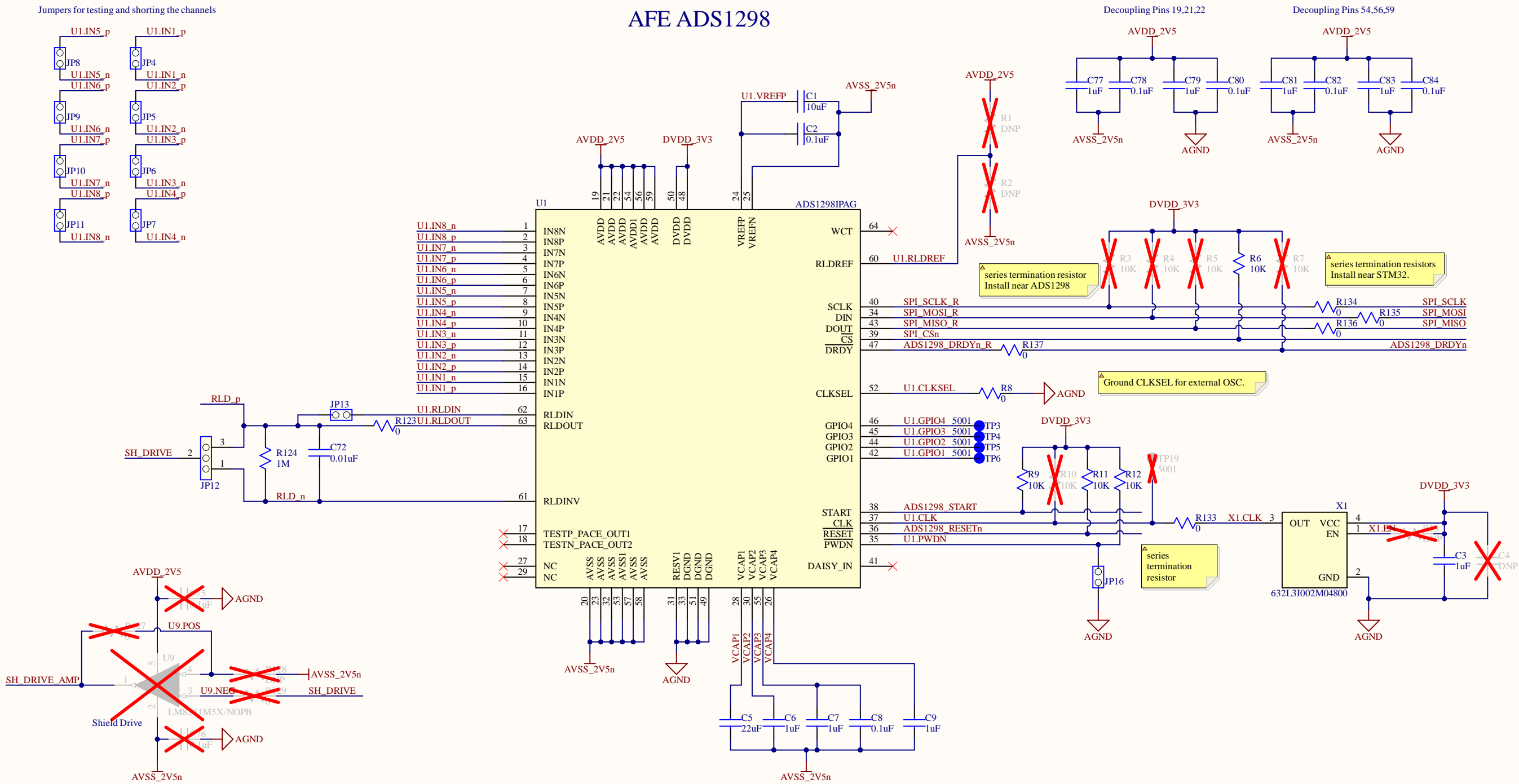


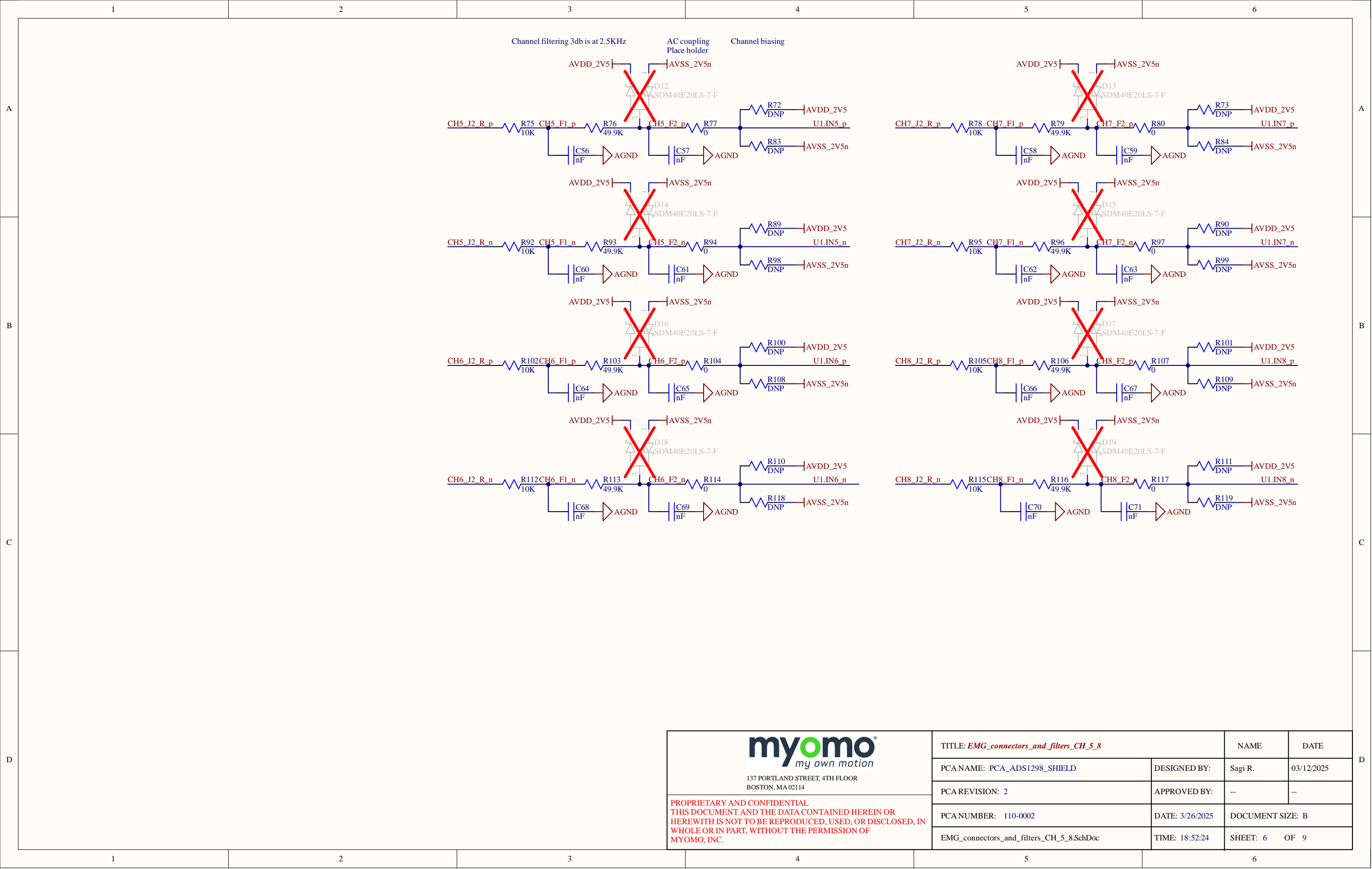
137 PORTLAND STREET, 4TH FLOOR
BOSTON, MA 02114

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TITLE: <i>Regulators_2</i>		NAME	DATE
PCA NAME: PCA_ADS1298_SHIELD	DESIGNED BY:	Sagi R.	03/12/2025
PCA REVISION: 2	APPROVED BY:	--	--
PCA NUMBER: 110-0002	DATE: 3/26/2025	DOCUMENT SIZE: B	
Regulators_2.SchDoc	TIME: 18:52:24	SHEET: 3	OF 9

AFE ADS1298





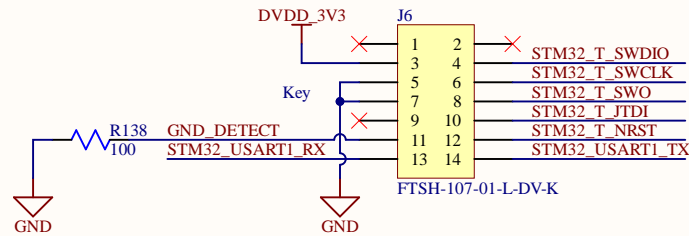
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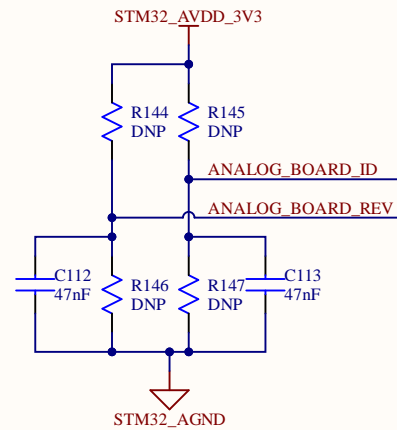
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PCA NAME: <i>PCA_ADS1298_SHIELD</i>	DESIGNED BY:	Sagi R.	03/12/2025
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PCA NUMBER: <i>110-0002</i>	DATE: <i>3/26/2025</i>	DOCUMENT SIZE: <i>B</i>	
CAN.SchDoc	TIME: <i>18:52:24</i>	SHEET: <i>7</i> OF <i>9</i>	

SWD + JTAG Programming port

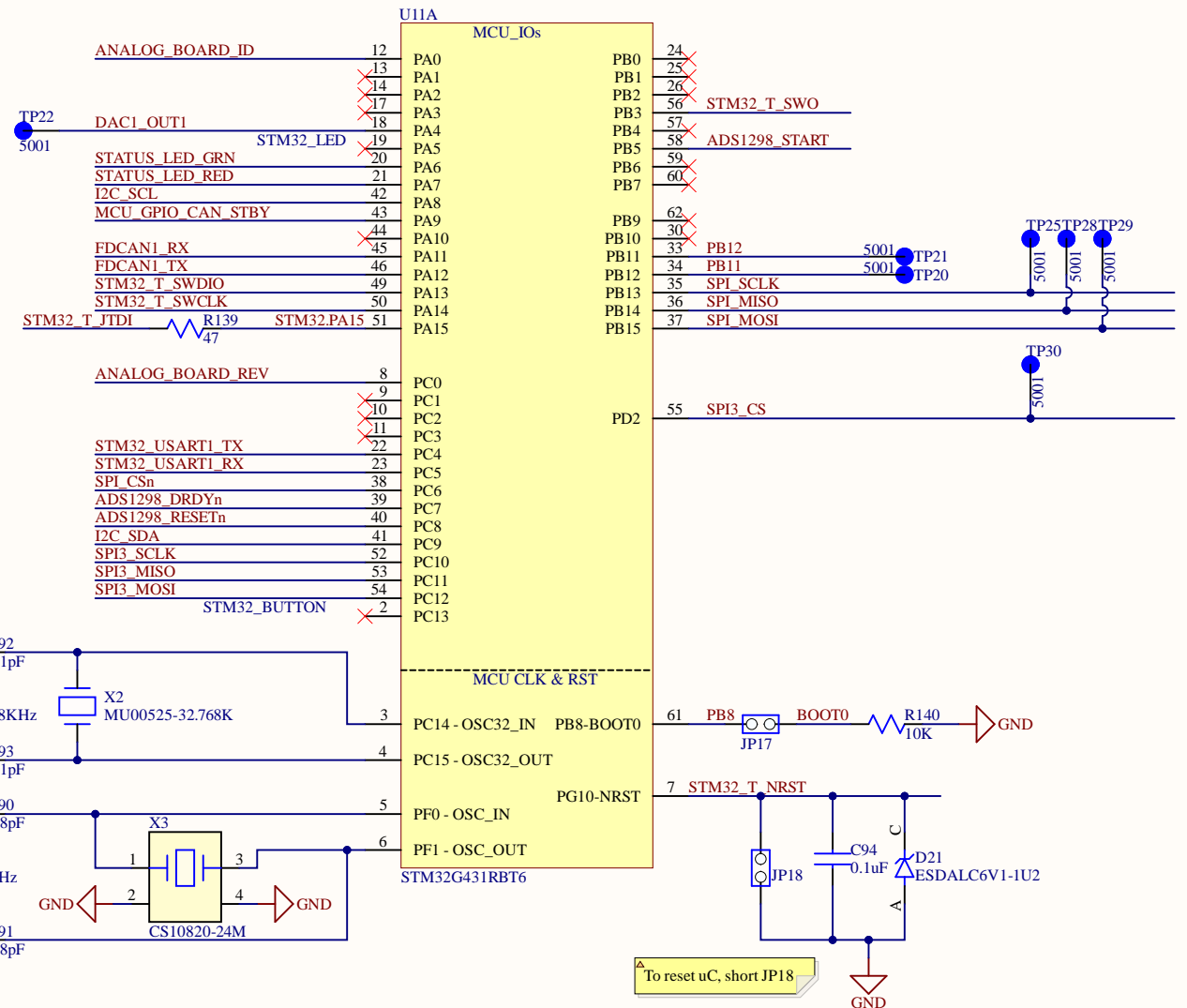
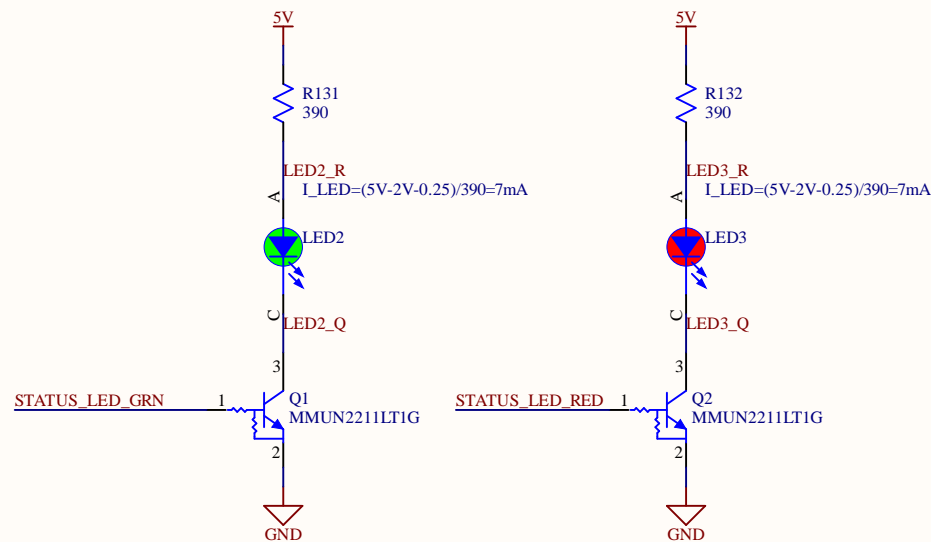
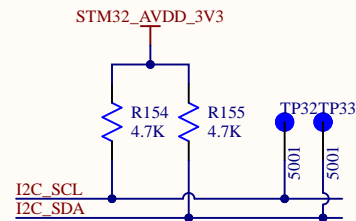
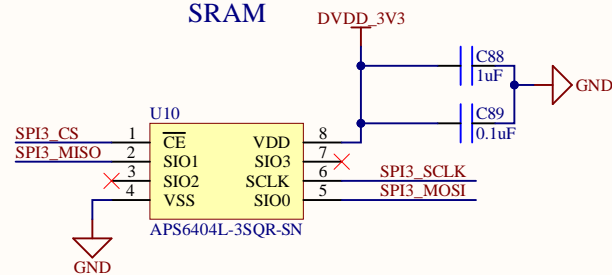



△ SWDIO and SWCLK should run as a pair with equal length and shielded.



△ Analog input to determine board model and revision.
Place caps close to STM32 analog input.

SRAM



 <p>45 Blue Sky Dr, Suite 101 Burlington, MA 01803-2778</p>	TITLE: <i>STM32_IO</i>		NAME	DATE
	PCA NAME: <i>PCA_ADS1298_SHIELD</i>	DESIGNED BY:	Sagi R.	03/12/2025
	PCA REVISION: 2	APPROVED BY:	--	--
	PCA NUMBER: <i>110-0002</i>	DATE: <i>3/26/2025</i>	DOCUMENT SIZE: <i>B</i>	
	STM32_IO.SchDoc	TIME: <i>18:52:24</i>	SHEET: 9	OF 9
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