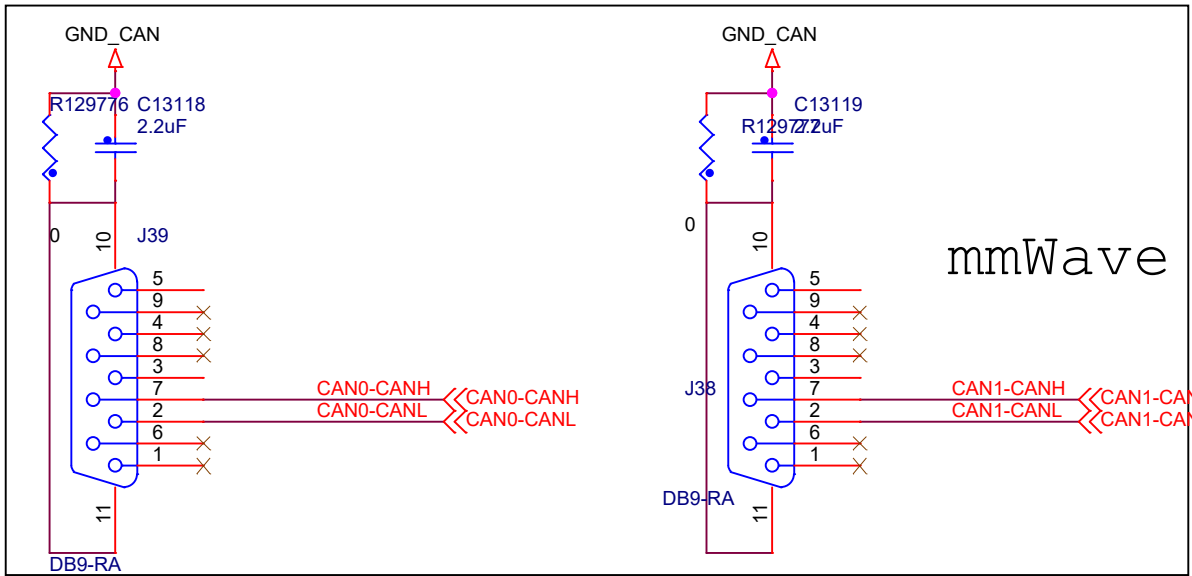
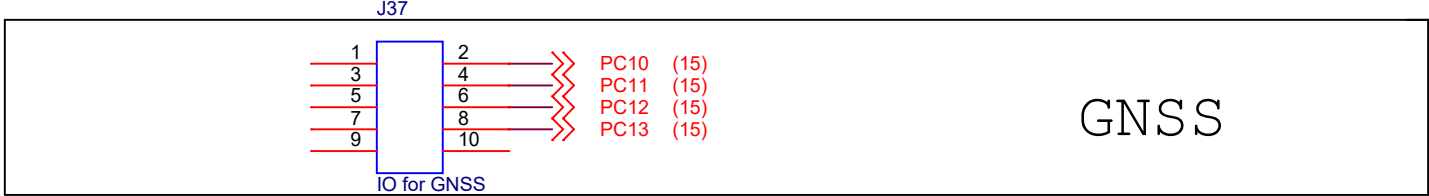
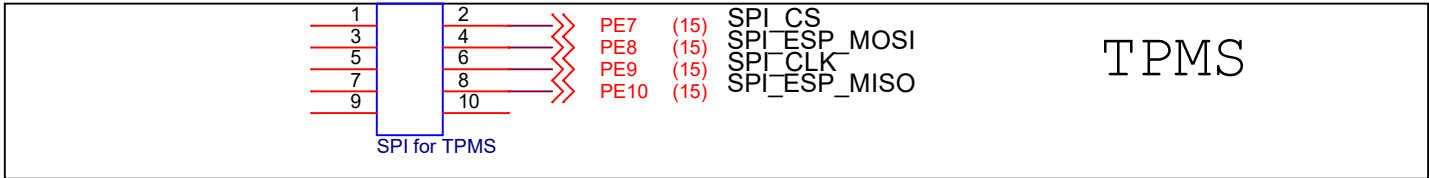
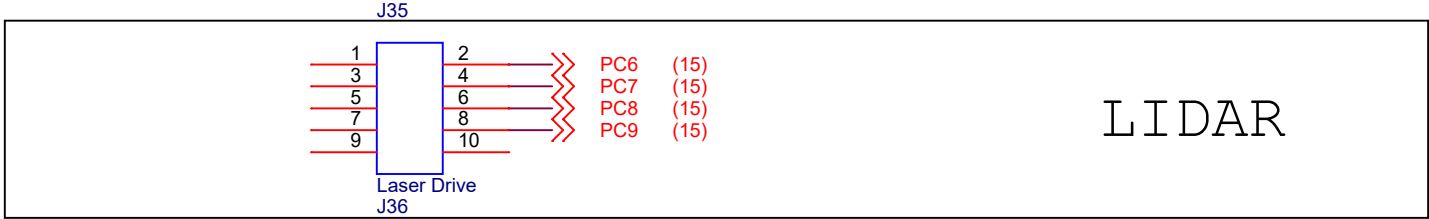
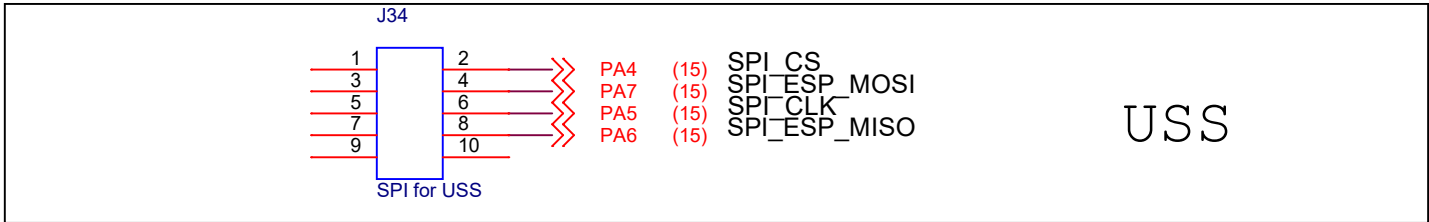


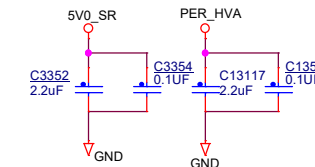
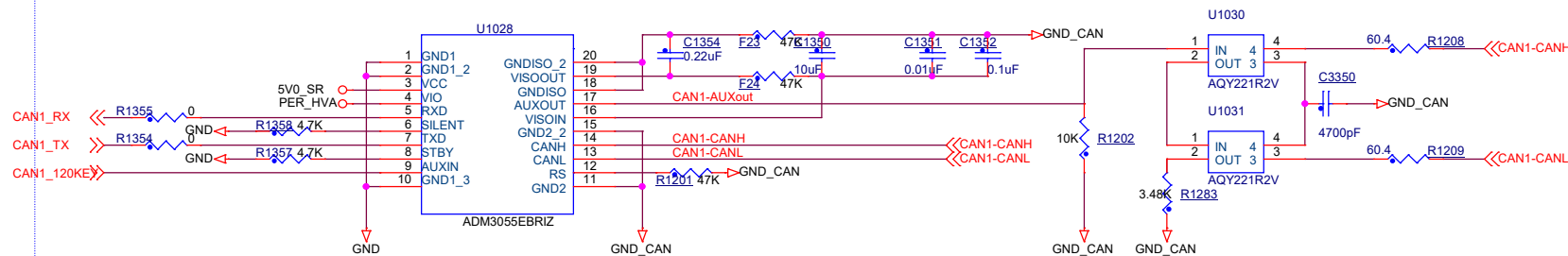
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Date:	Thursday, December 04, 2025	Sheet	1 of 1



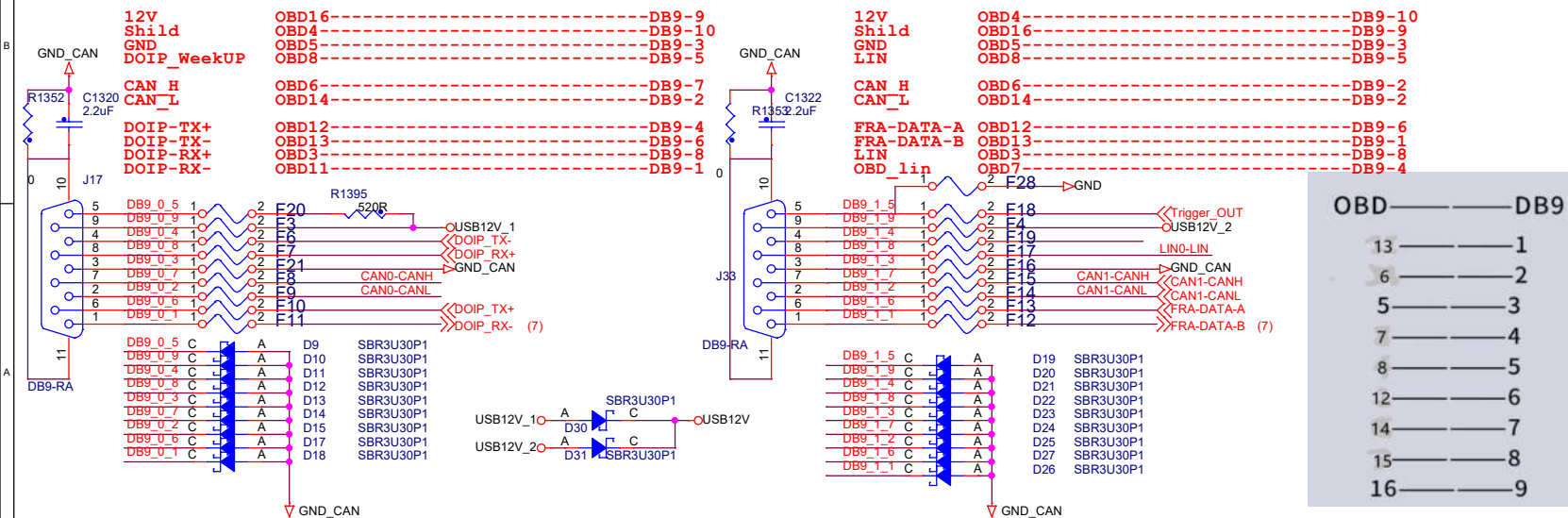
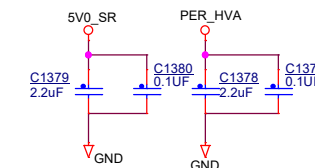
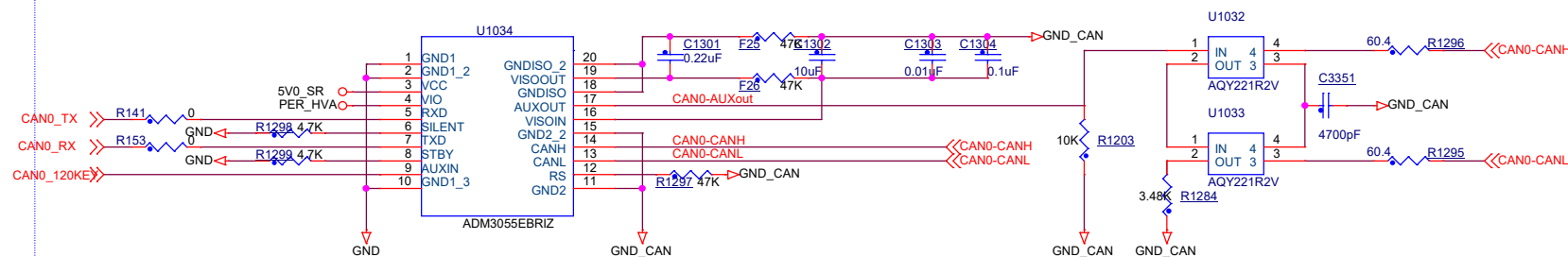
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Size	Document Number	Rev
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Date:	Thursday, December 04, 2025	Sheet 1 of 1



CAN1 Physical Interface



CAN0 Physical Interface



OBD	DB9
13	1
6	2
5	3
7	4
8	5
12	6
14	7
15	8
16	9

USB (Type A Host and Type AB OTG)

General Layout Note. Recommendation is to keep all tracks between MCU and USB PHI less than 3"

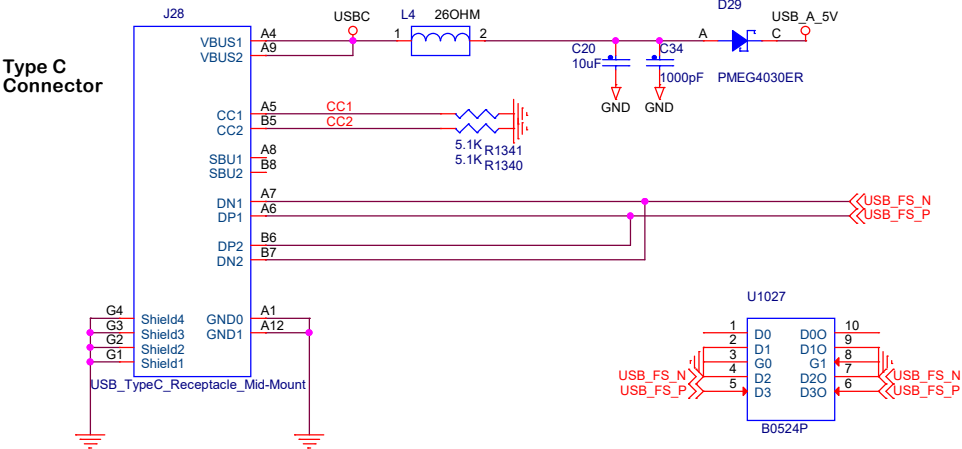
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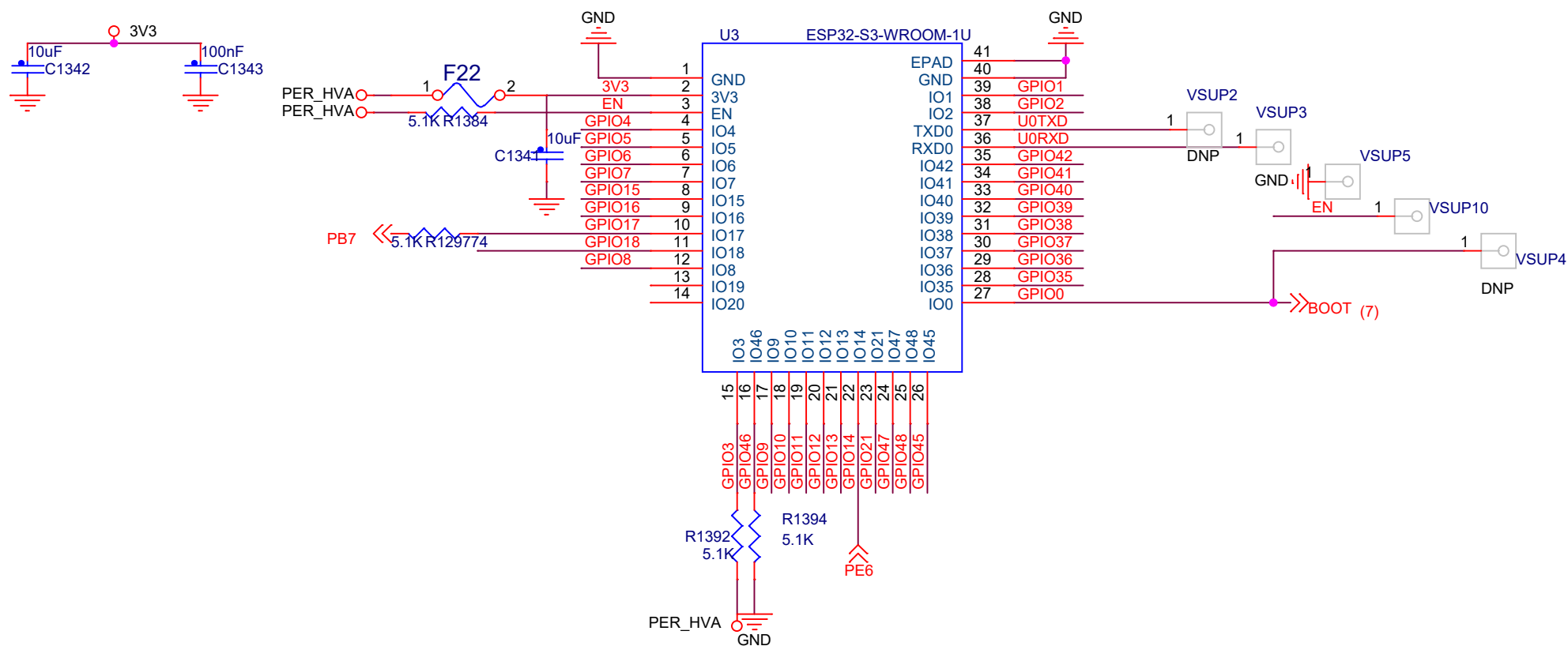
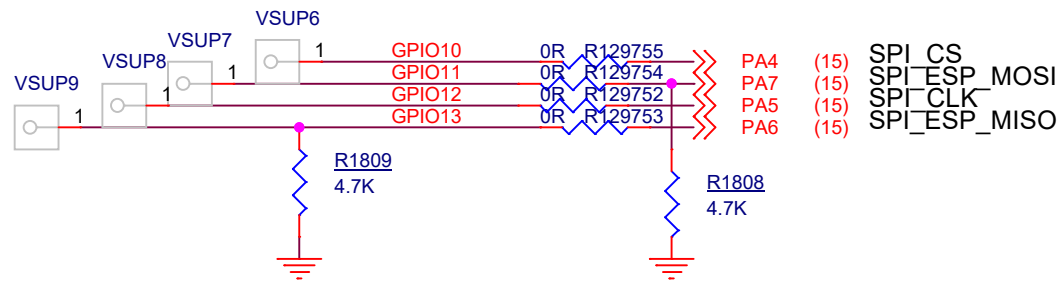
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Changed to
211-75297-USB_TYPE_A
CON 4 SKT RA SMT -- AU USB A

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USB Signals
are in
power
domain
VDD_HV_A

The USB interface only supports 3.3V operation. All I/O signals must be 3.3V. If VDD HVA is set to 5V, USB MCU pads must be left as tri-state with no pullups or series resistors to be removed

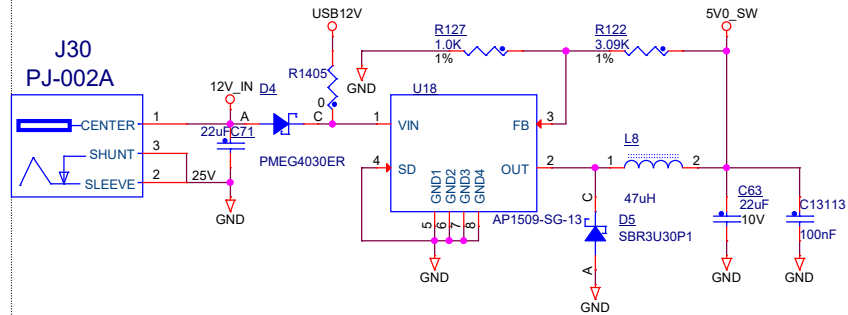




Power Input and Voltage Regulators

12V Power Supply Input 5V Switching Regulator

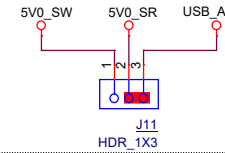
Input Voltage 12V, Output 5V at 1800mA



Layout note: follow IC datasheet recommendations for PCB layout and thermal dissipation

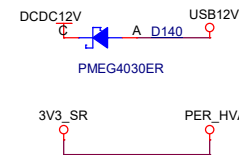
Board supply selection Select between USB and external 12V

1-2 -> external 12V
2-3 -> USB/UART connector



Power Control

Jumpers can be fitted to facilitate power measurements

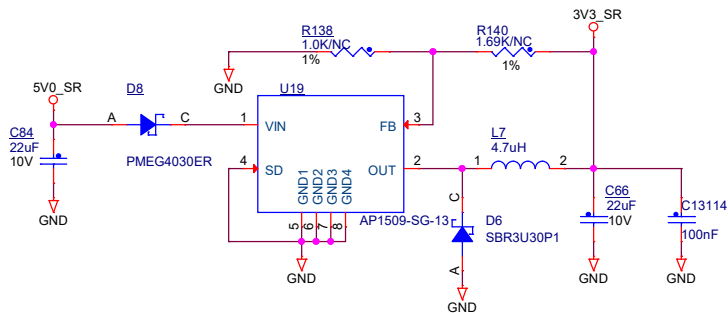


Test and reference points

GND Test Points,
Top Side

3.3V Switching Regulator

Input Voltage 5V, Output 3.3V at 1600mA



Layout note: follow IC datasheet recommendations for PCB layout and thermal dissipation

