

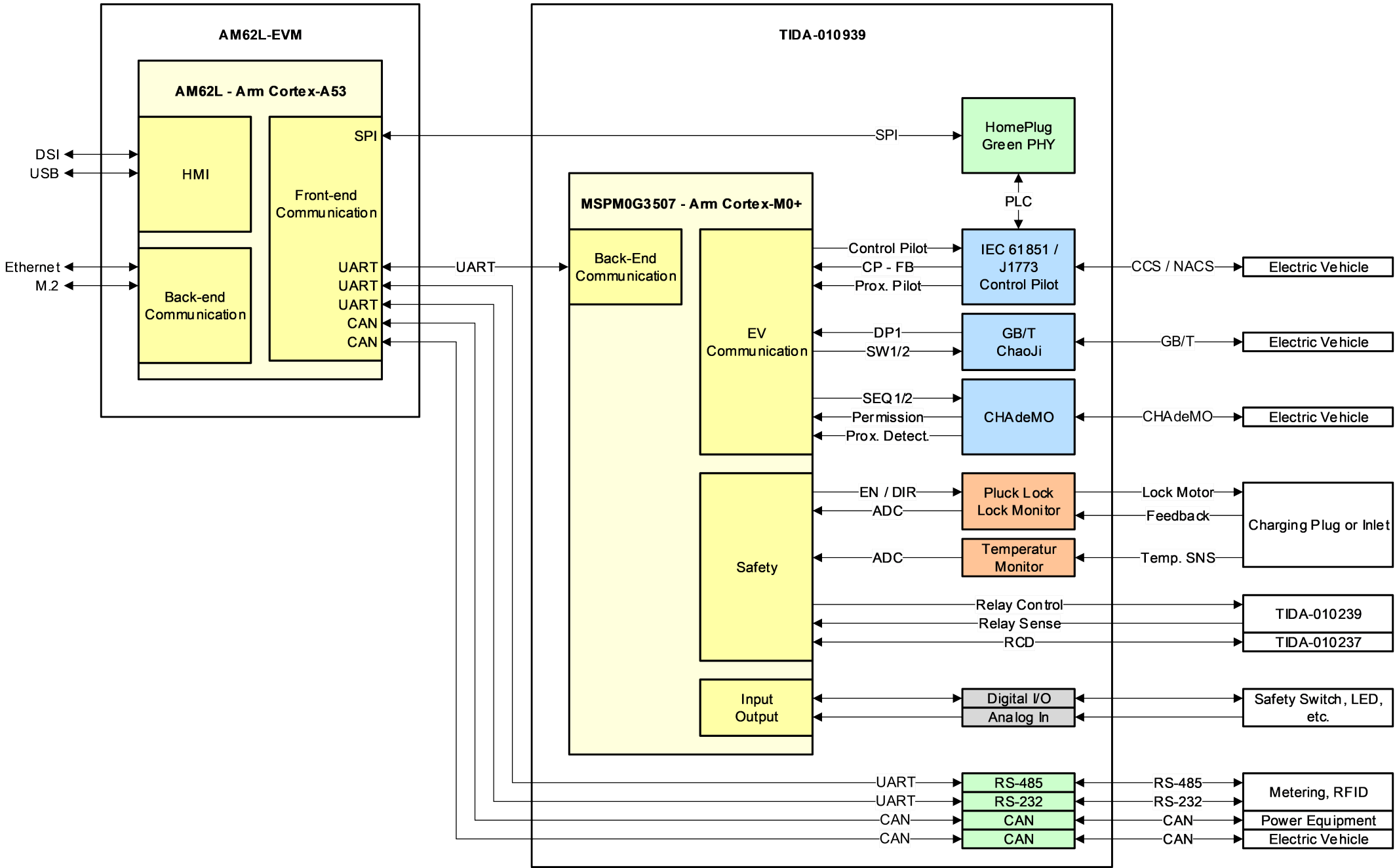
Revision History				
Rev	ECN #	Approved Date	Approved by	Notes
N/A	N/A	N/A	N/A	N/A

A

B

C

D



A

B

C

D



A

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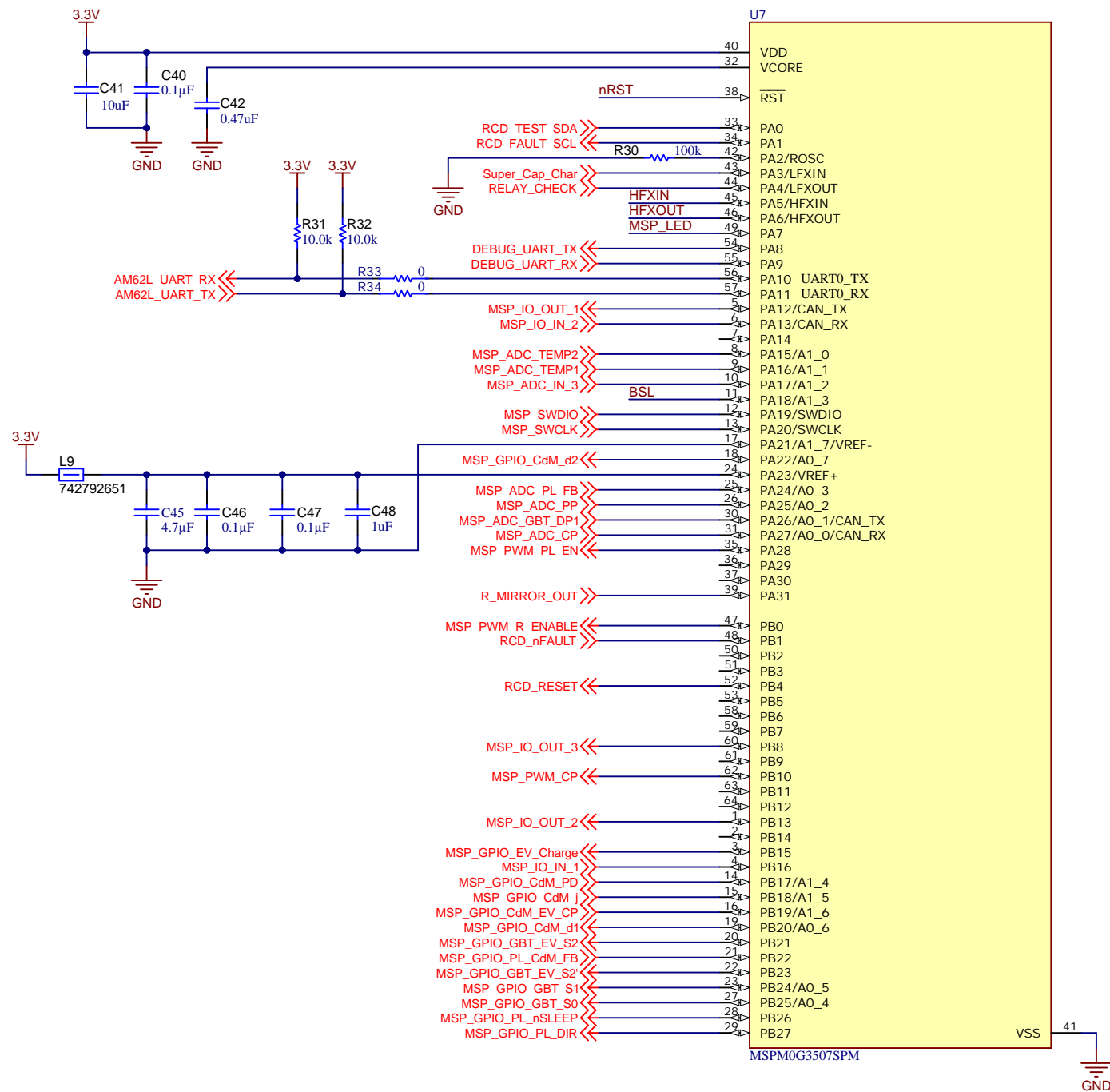
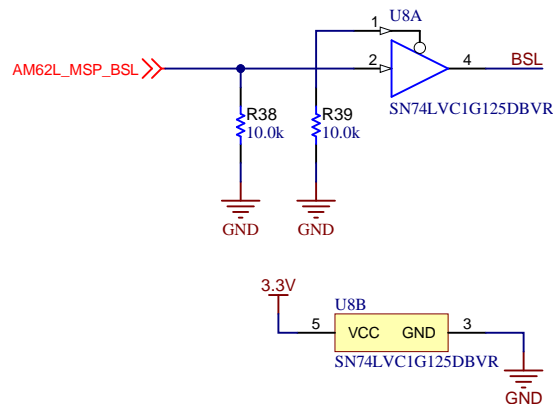
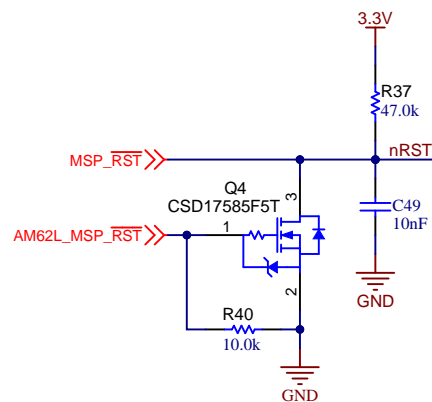
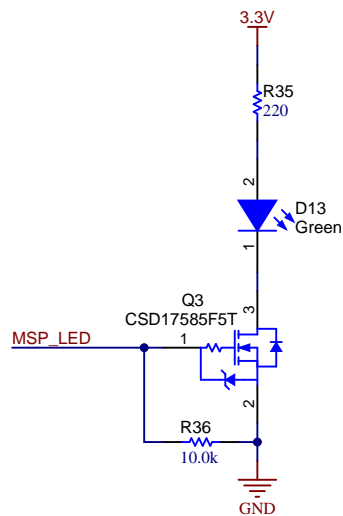
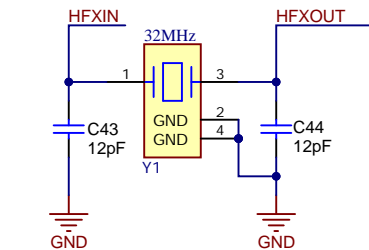
D

A

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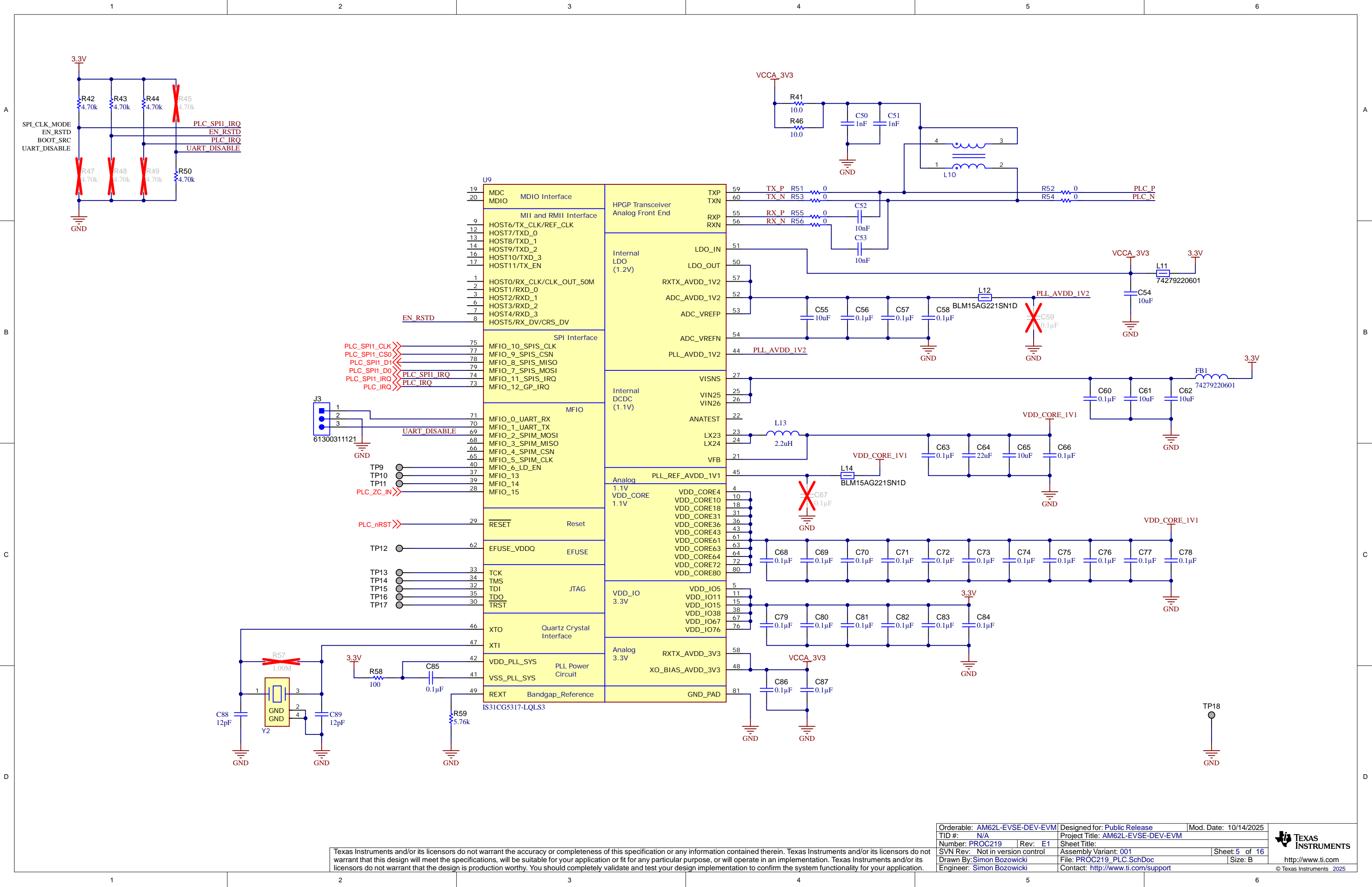
C

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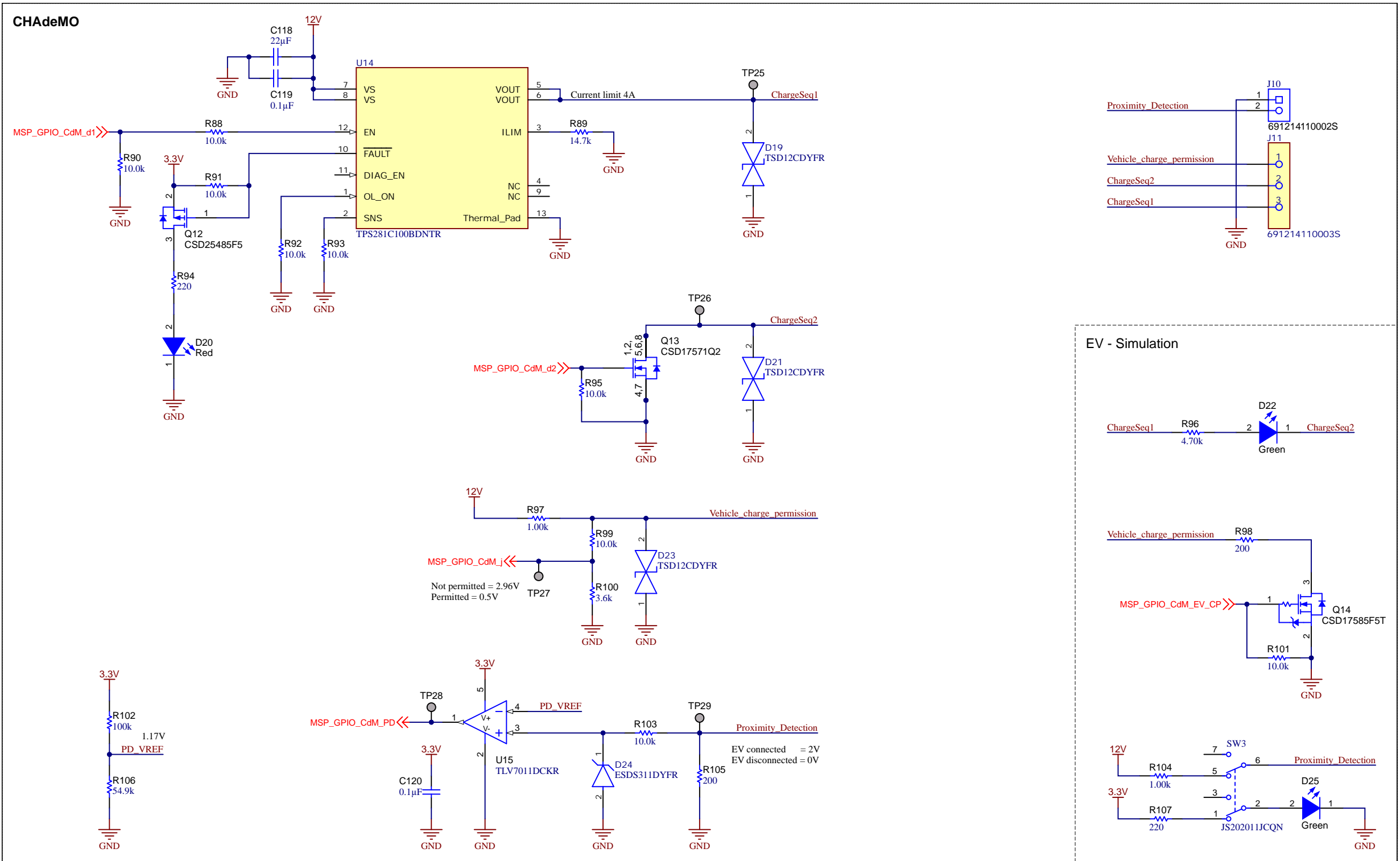
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Orderable: AM62L-EVSE-DEV-EVM	Designed for: Public Release	Mod. Date: 10/14/2025
TID #: N/A	Project Title: AM62L-EVSE-DEV-EVM	
Number: PROC219	Rev: E1	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 4 of 16
Drawn By: Simon Bozowicki	File: PROC219_MSPM0.SchDoc	Size: B
Engineer: Simon Bozowicki	Contact: http://www.ti.com/support	



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TID #: N/A	Project Title: AM62L-EVSE-DEV-EVM	
Number: PROC219	Rev: E1	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 5 of 16
Drawn By: Simon Bozowicki	File: PROC219_PLC.SchDoc	Size: B
Engineer: Simon Bozowicki	Contact: http://www.ti.com/support	



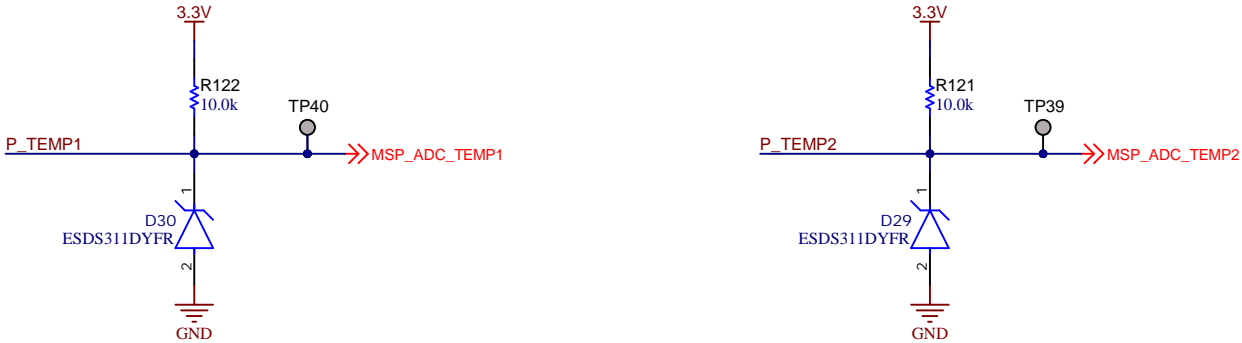
Requirements of the power supply to the vehicle according to IEEE Std 2030.1.1-2021

Supply voltage 12 V (dc) $\pm 10\%$, Continuous rating 2 A, 24 W - Short-circuit current to the vehicle shall decrease less than 6 A within 1 s after the short circuit occurs. Charge Sequence 1/2 is used to switch the EVs HV relay.

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TID #: N/A	Project Title: AM62L-EVSE-DEV-EVM	
Number: PROC219	Rev: E1	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 8 of 16
Drawn By: Simon Bozowicki	File: PROC219_CHAdemo.SchDoc	Size: B
Engineer: Simon Bozowicki	Contact: http://www.ti.com/support	

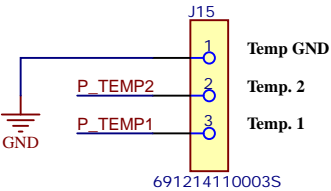
Temperatur sensing



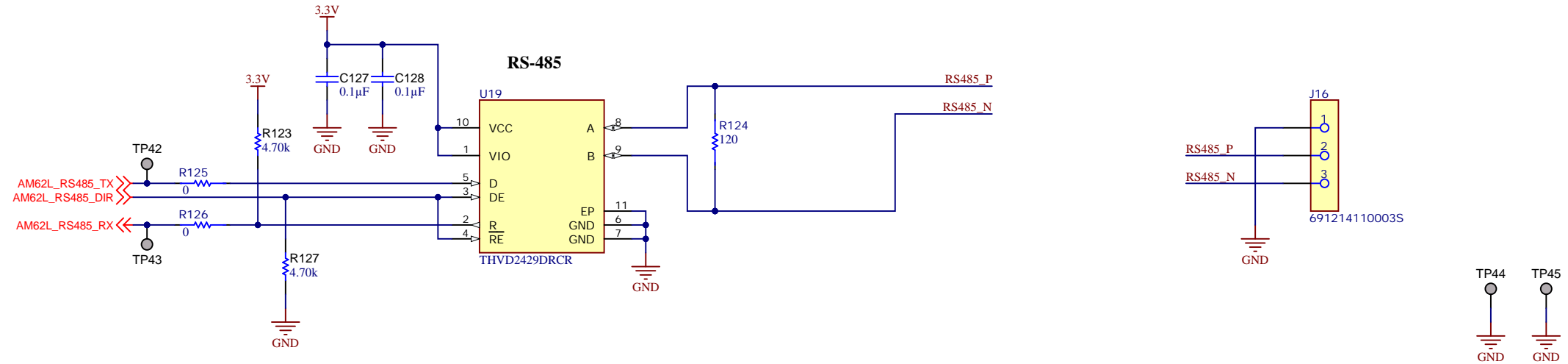
Charging plugs and inlets come with integrated PT1000 temperature sensors. During high current charging, it is possible to encounter dangerous temperatures if the cable or contactors are damaged. The SECC will shut down the charging cycle in case limits are exceeded. To verify functionality of the sensors the temperature difference between two sensors can be measured during idle state.

PT1000, Measurement Current 0.33mA

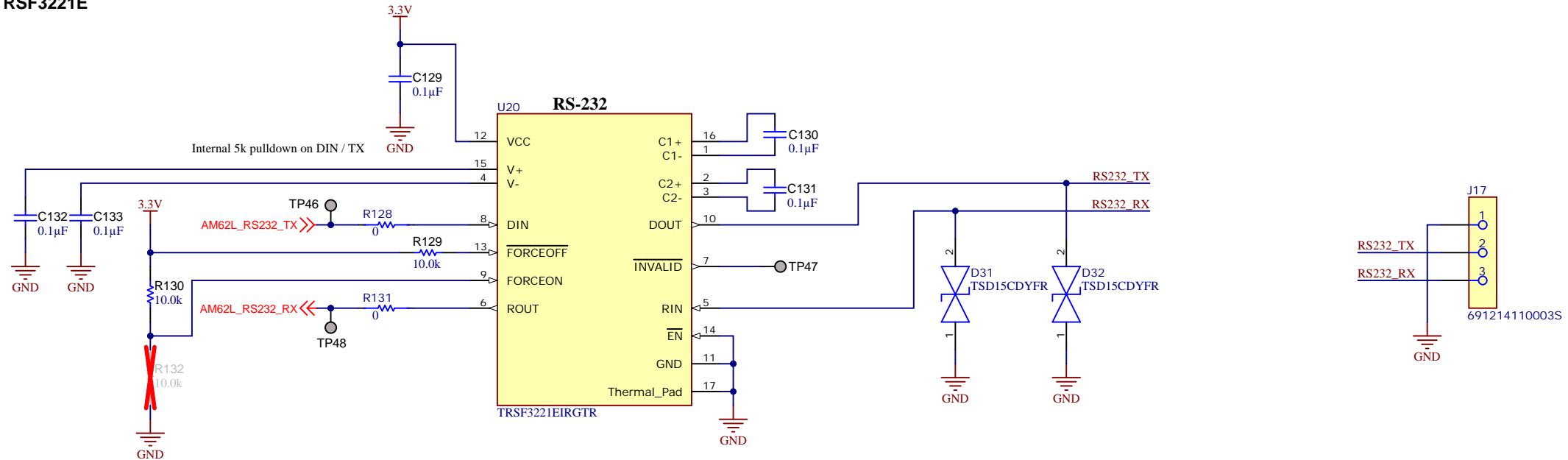
Temperatur °C	R
-40	842.7
-20	921.6
0	1000
20	1077.9
40	1155.4
60	1232.4
80	1309.0
100	1385.1



RS-485 Transceiver / THVD2429




RS-232 Transceiver / TRSF3221E



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TID #: N/A	Project Title: AM62L-EVSE-DEV-EVM	
Number: PROC219	Rev: E1	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 11 of 16
Drawn By: Simon Bozowicki	File: PROC219_Serial.SchDoc	Size: B
Engineer: Simon Bozowicki	Contact: http://www.ti.com/support	

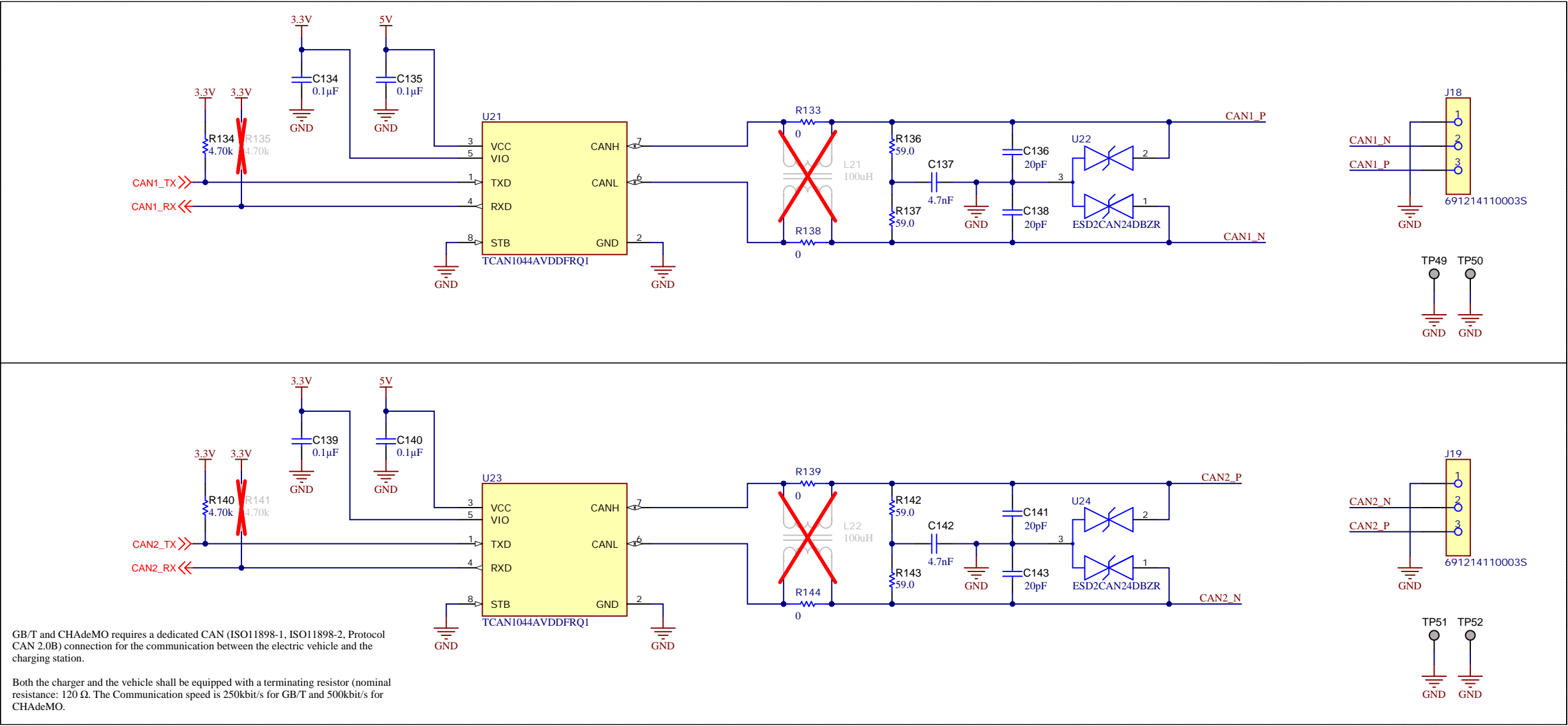


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TCAN1044AVDDFRQ1 / CAN Transceiver



Orderable: AM62L-EVSE-DEV-EVM	Designed for: Public Release	Mod. Date: 10/14/2025
TID #: N/A	Project Title: AM62L-EVSE-DEV-EVM	
Number: PROC219	Rev: E1	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 12 of 16
Drawn By: Simon Bozowicki	File: PROC219_CAN.SchDoc	Size: B
Engineer: Simon Bozowicki	Contact: http://www.ti.com/support	

A

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A

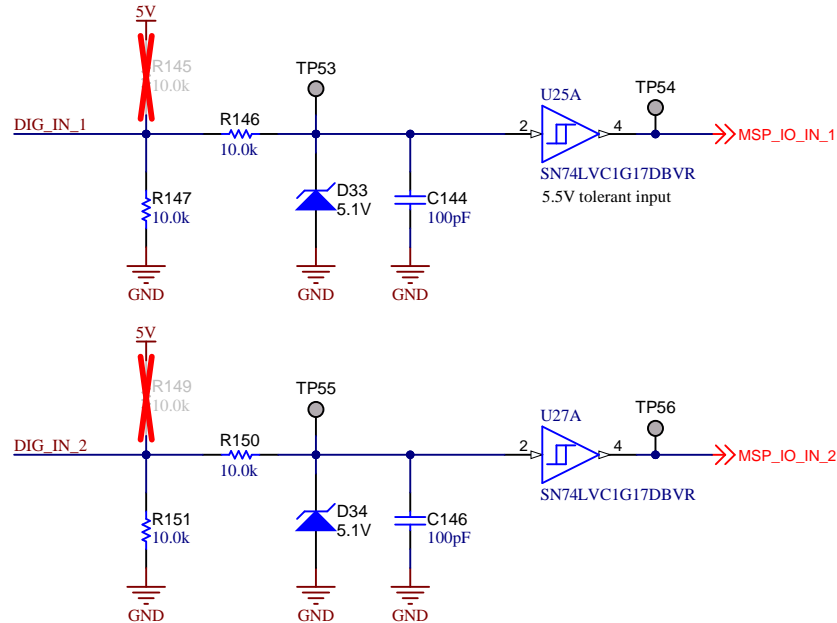
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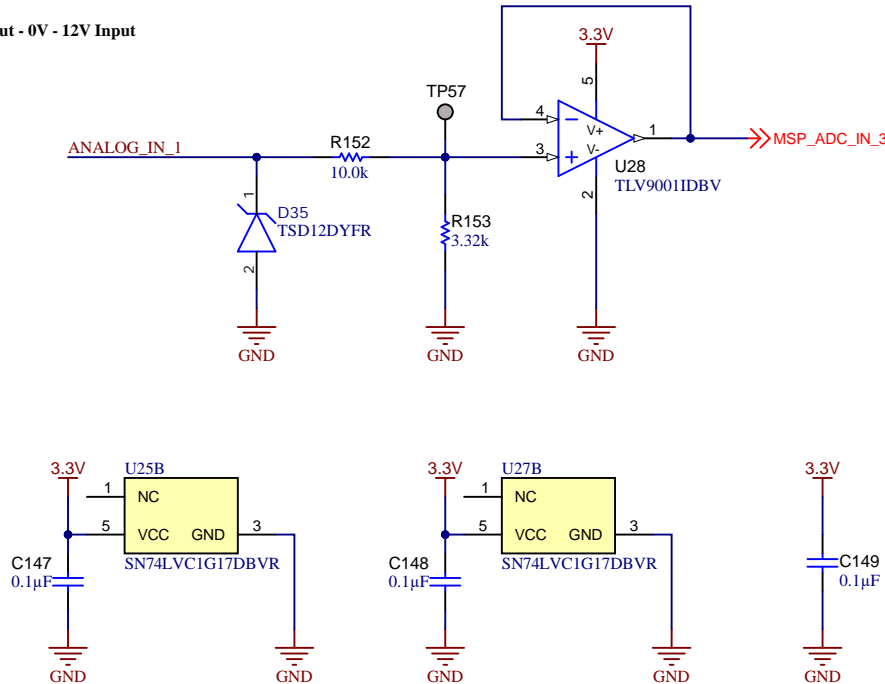
D

Digital Input - 24V / 12V Input

Positive-going input threshold voltage: 3.4V (> 1.7V)
Negative-going input threshold voltage: 2.2V (> 1.1V)



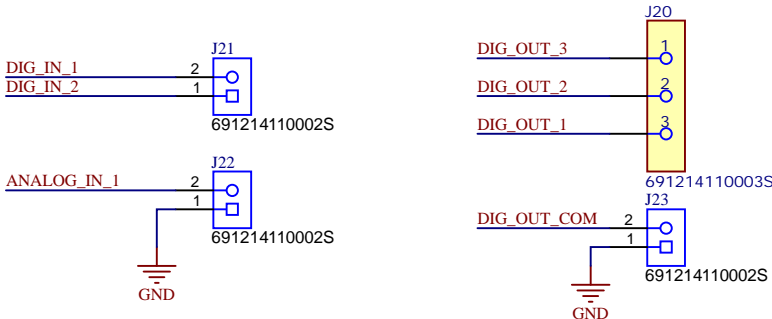
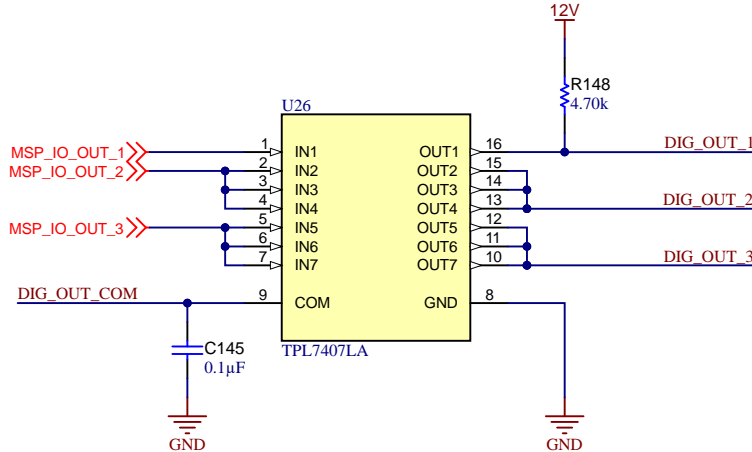
Analog Input - 0V - 12V Input



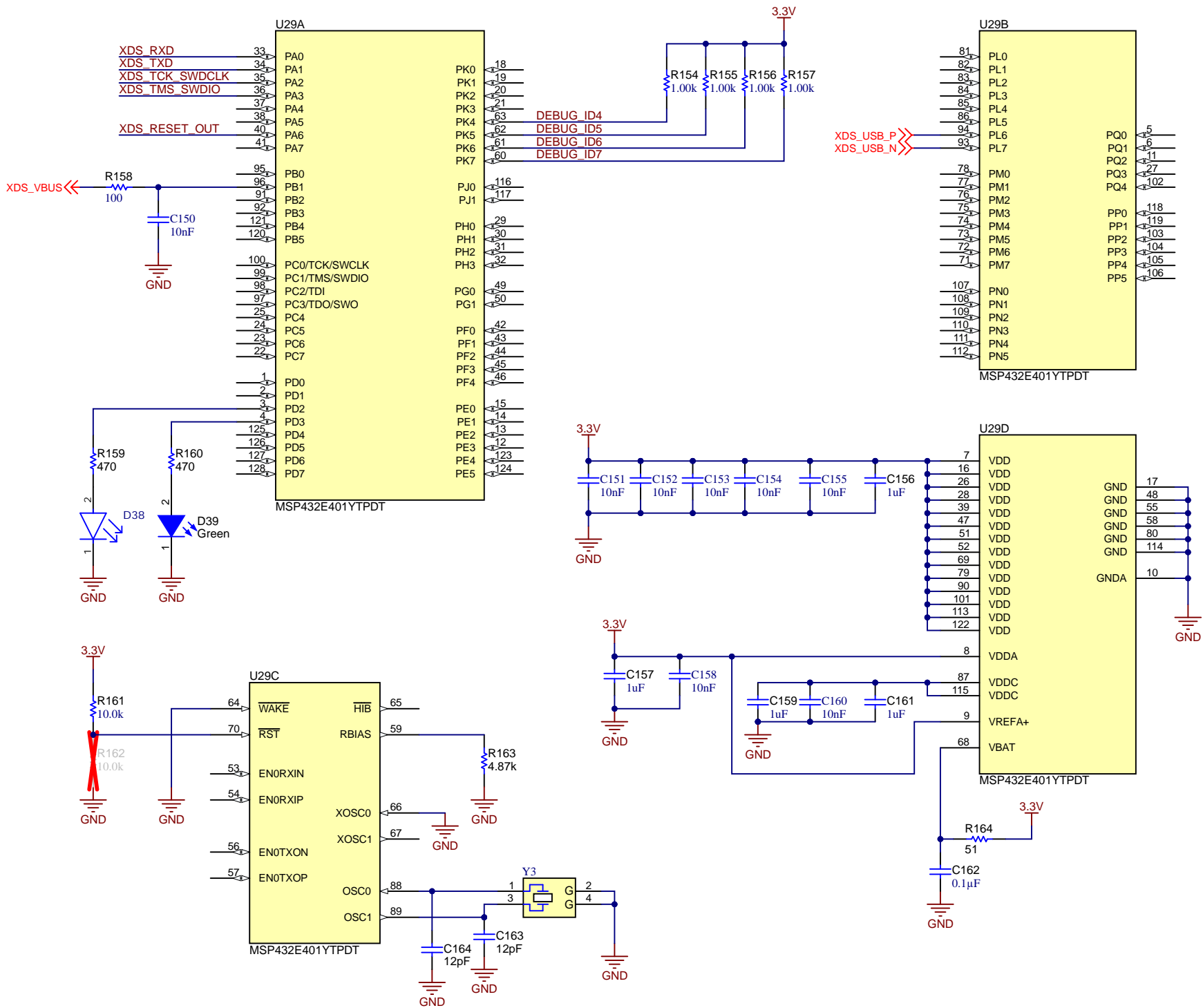
Digital Output - Open Collector

Output 1: Logic Output, High = 12V / Low = 0.4V
Output 2 / 3: Low Side switch, max. 2A total

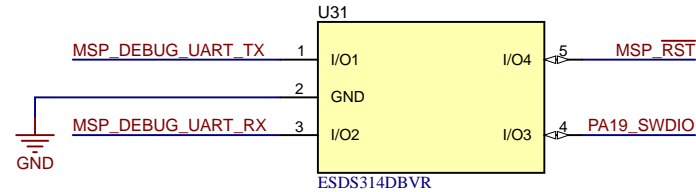
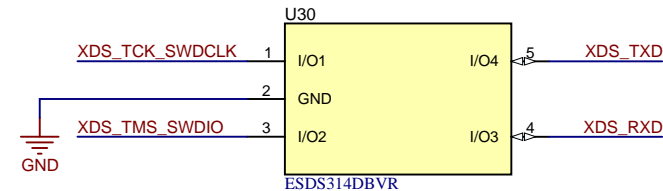
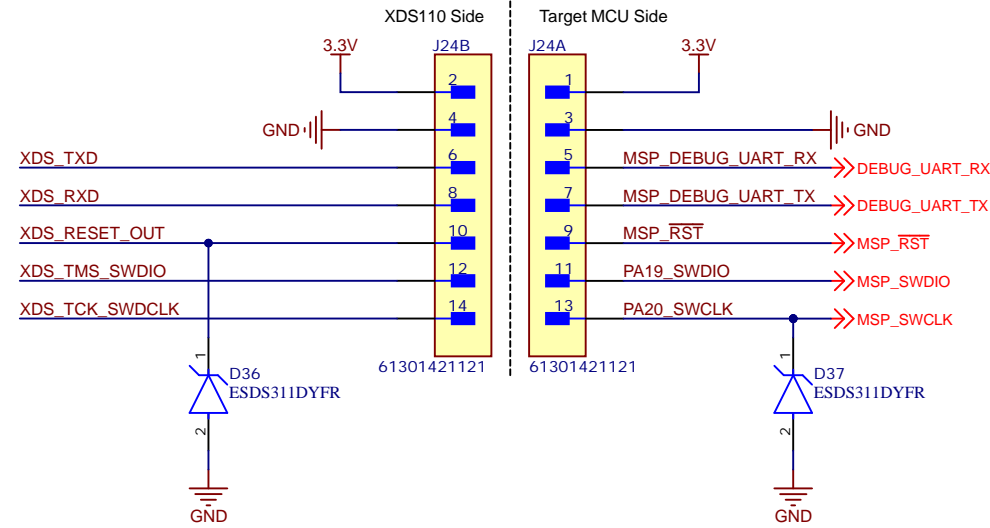
Connect COM to VSupply (8.5V - 40V)



XDS110 Device



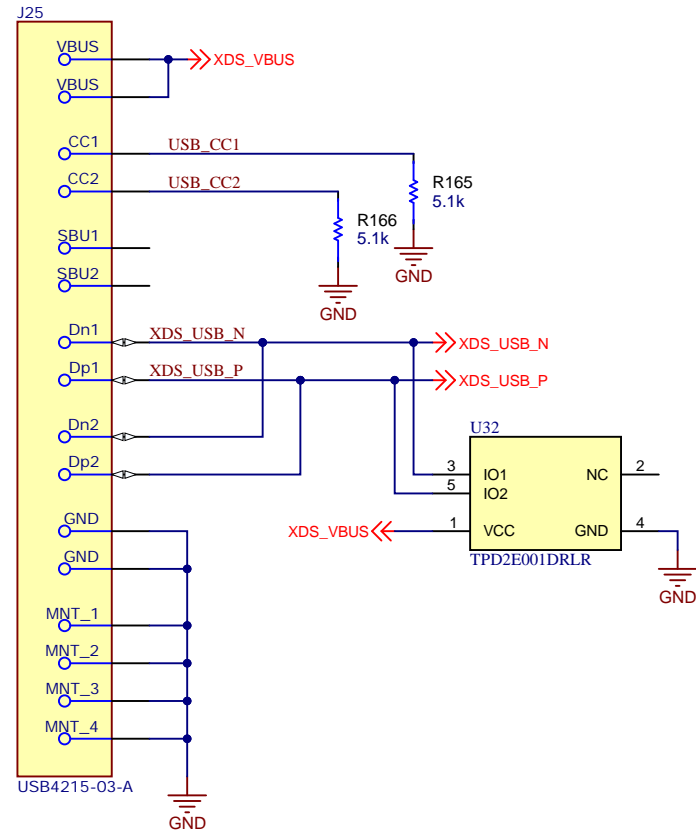
XDS110 Target Interface



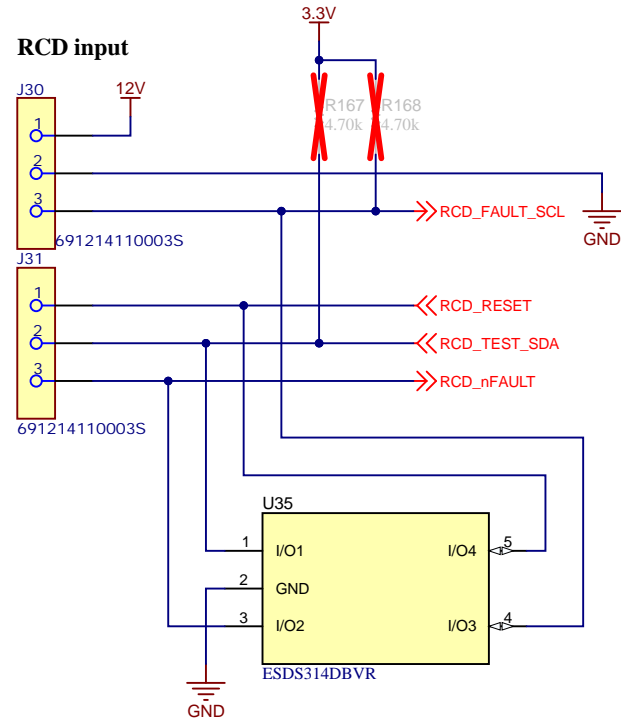
To debug the MSPM0, ensure that the jumpers on J24 are connected to pass the SWDIO and SWDCLK signals to the MCU. RXD and TXD are optional. These are for Channel B of the Debugger to enable a serial interface to the connected PC.

If debugging an external target, remove the jumpers and connect the external target.

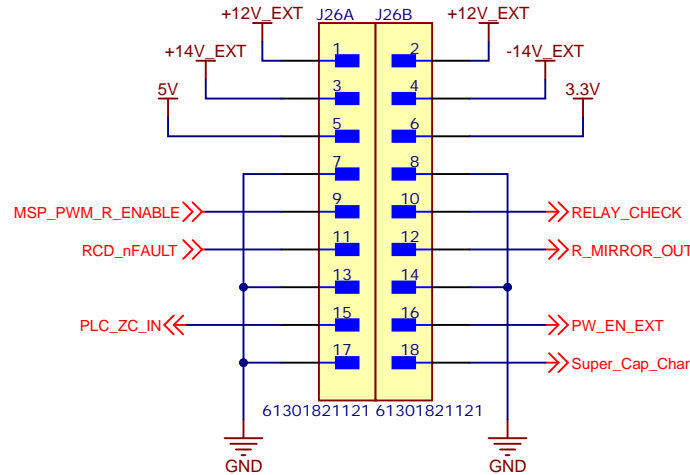
USB-C / Programming



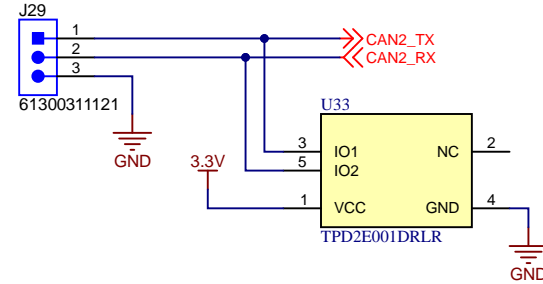
RCD input



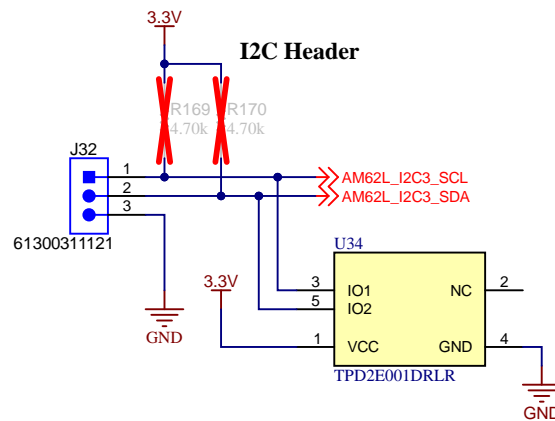
TIDA-010239 Connector



CAN Header



I2C Header



AM62L EVM Connector

