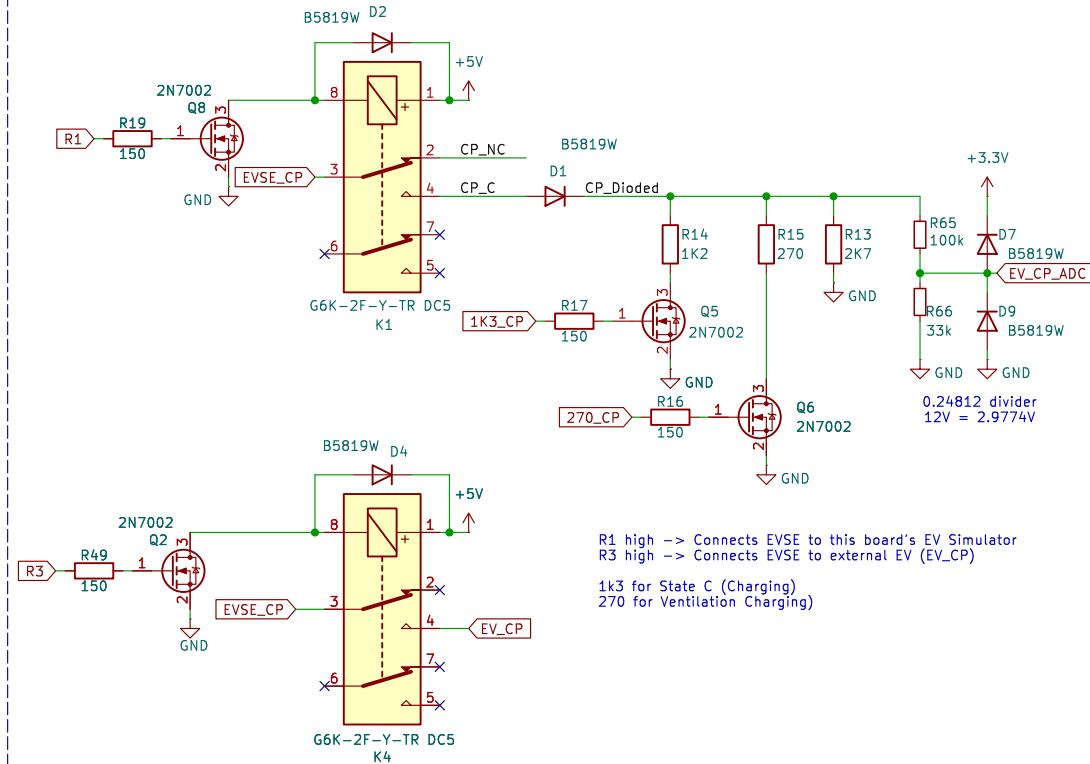
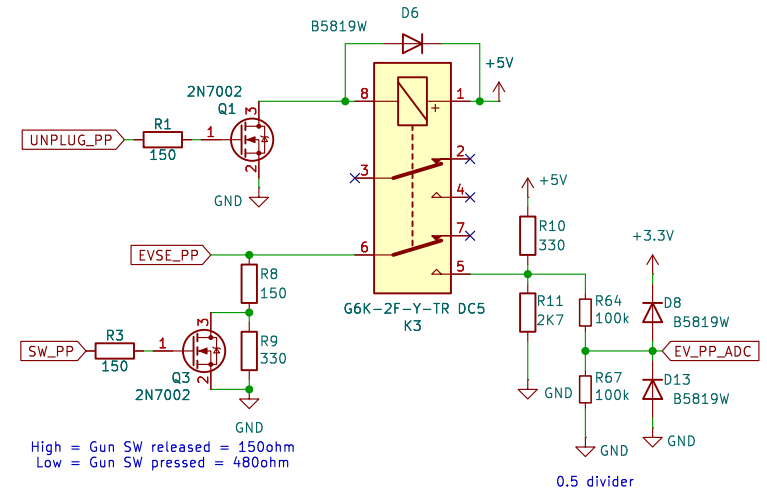


Control Pilot



Proximity Pilot Gun_SW and EV



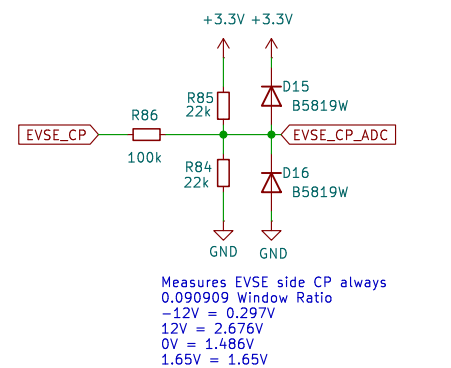
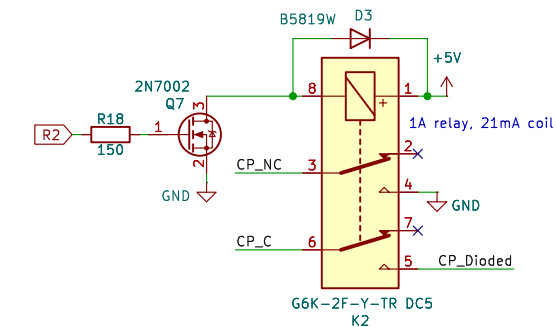
PlugPresent:

- 1k5 to ground for CCS2
- 100 ohm to 1k5 for AC (current limit of the cable)
- 150 ohm (button idle) or 480 ohm (button pressed) for CCS1

Some inlets may contain 2k7 or 3k0 to ground. The optional R60 can be used if no external pull down is present.
Discussion here: <https://openinverter.org/forum/viewtopic.php?p=66305#p66305>

PP Voltage:
Not conn. = 4.5V
Conn., SW released = 3.0V
Conn., SW pressed = 1.5V

R4 high -> Connect PP Gun to EV / FOCCCI
UNPLUG_PP -> Use this board's EV PP Emulator



Sheet: /EV Emulator/
File: untitled.kicad_sch

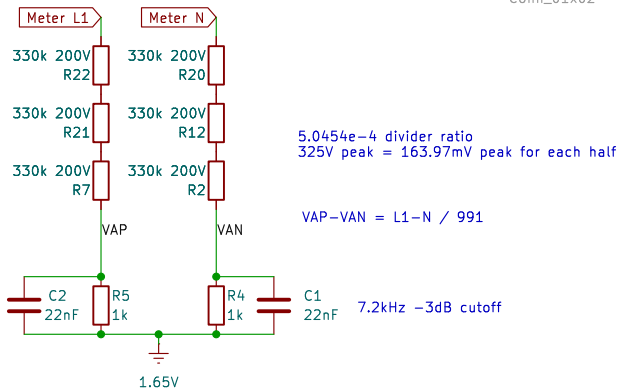
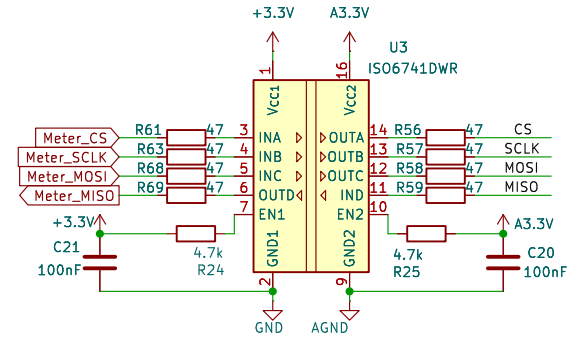
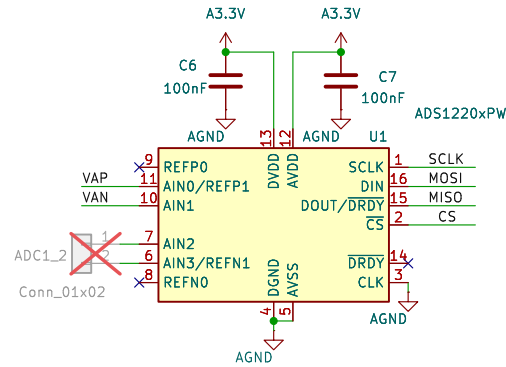
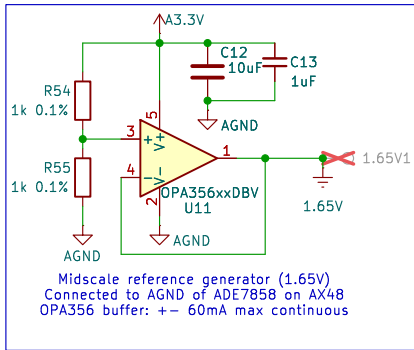
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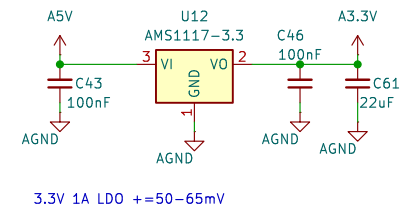
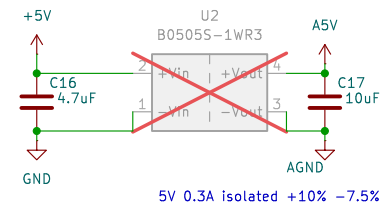
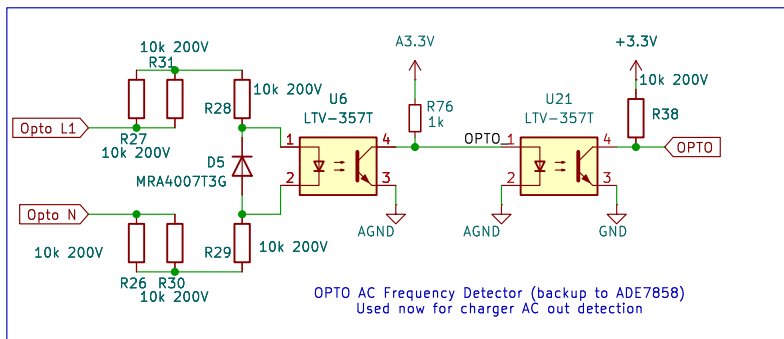
Id: 2/5



1.65V is midscale voltage on this 3.3V analog plane

- Can be connected directly to AGND of ADE7858, which uses Fully Differential True Bipolar inputs for AC Vin lin, +-0.5V (V1 + V2) , +-2V abs max; +-25mV max common mode

CT emulator A1_GND 1.65V is connected to AGND, this metering AGND 1.65V should only be connected to ADE7858 AGND if its resistor divider input is used instead of this board's resistor divider



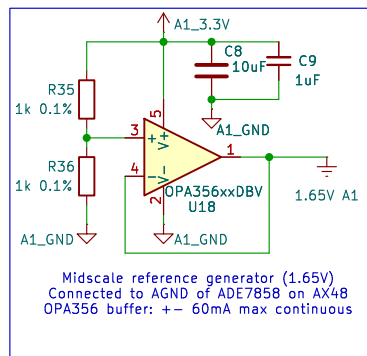
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File: AC_Meter.kicad_sch

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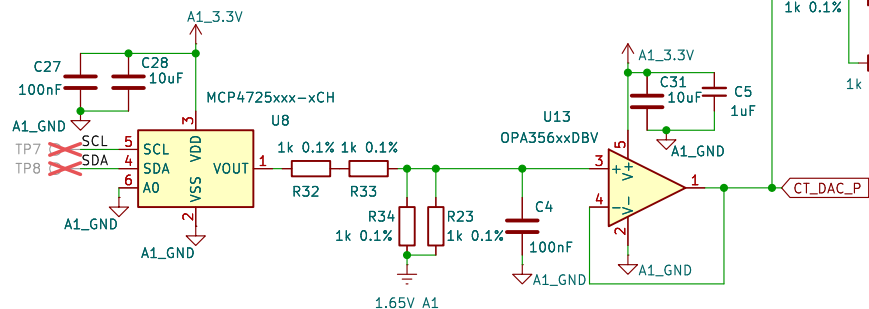
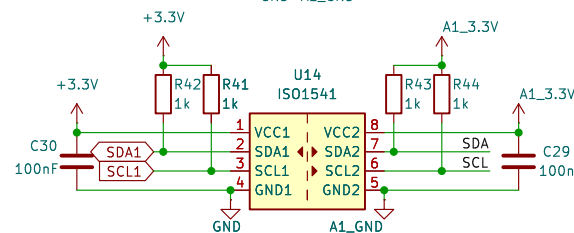
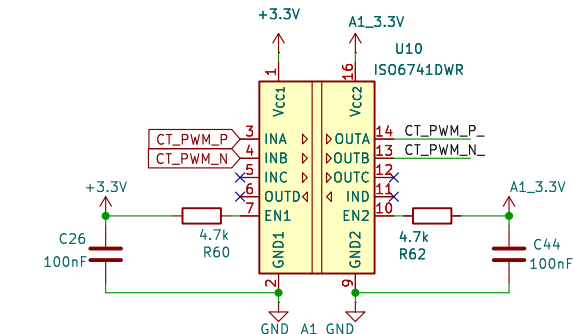
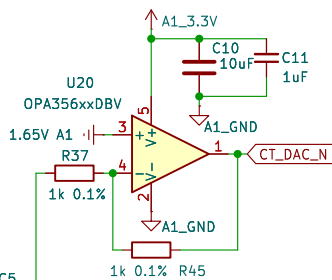
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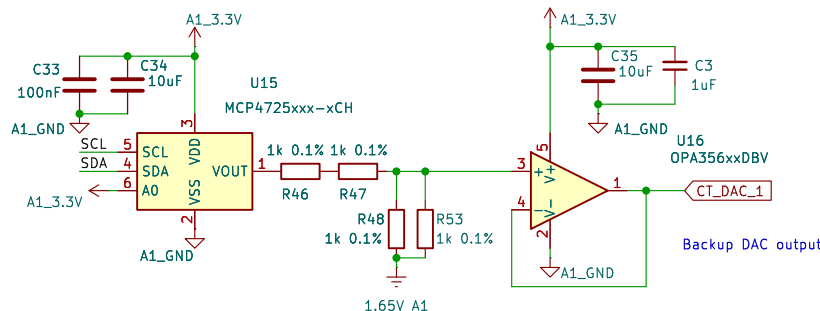
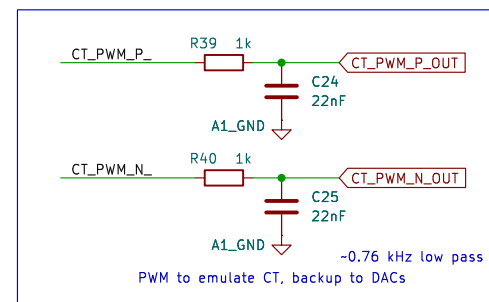
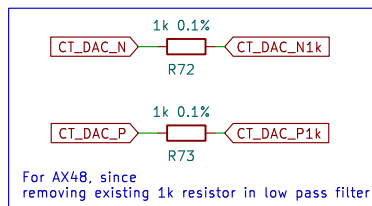
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Id: 3/5



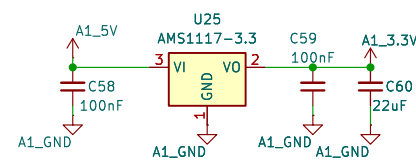
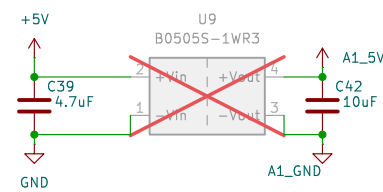
Inverts DAC signal around 1.65V midpoint
Also buffers output



Window Resistor divider, $2 + 0.5 = 0.2$ Ratio Vout/Vin
DAC Vout 0V = 1.32V, 1.65V=1.65V, 3.3V = 1.98V



Backup DAC output



Sheet: /CT Emulator/
File: CT_Emulator.kicad_sch

Title:

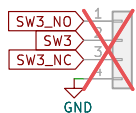
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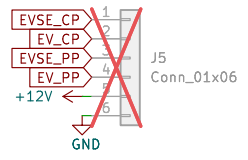
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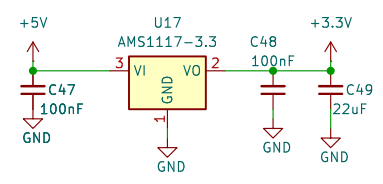
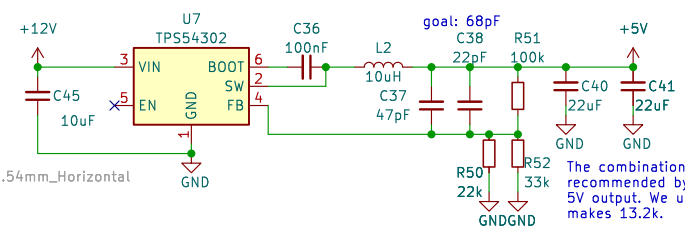
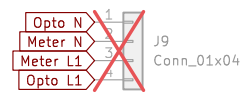
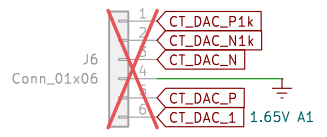
Id: 4/5



TerminalBlock_Phoenix:TerminalBlock_Phoenix_MPT-0,5-4-2.54_1x04_P2.54mm_Horizontal



- H1 MountingHole
- H2 MountingHole
- H3 MountingHole
- H4 MountingHole
- H8 MountingHole
- H9 MountingHole
- H10 MountingHole
- H11 MountingHole



Sheet: /Connectors_Power/
File: Connectors_Power.kicad_sch

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Size: A4	Date:	Rev:
KiCad E.D.A. 8.0.5	Id: 5/5	