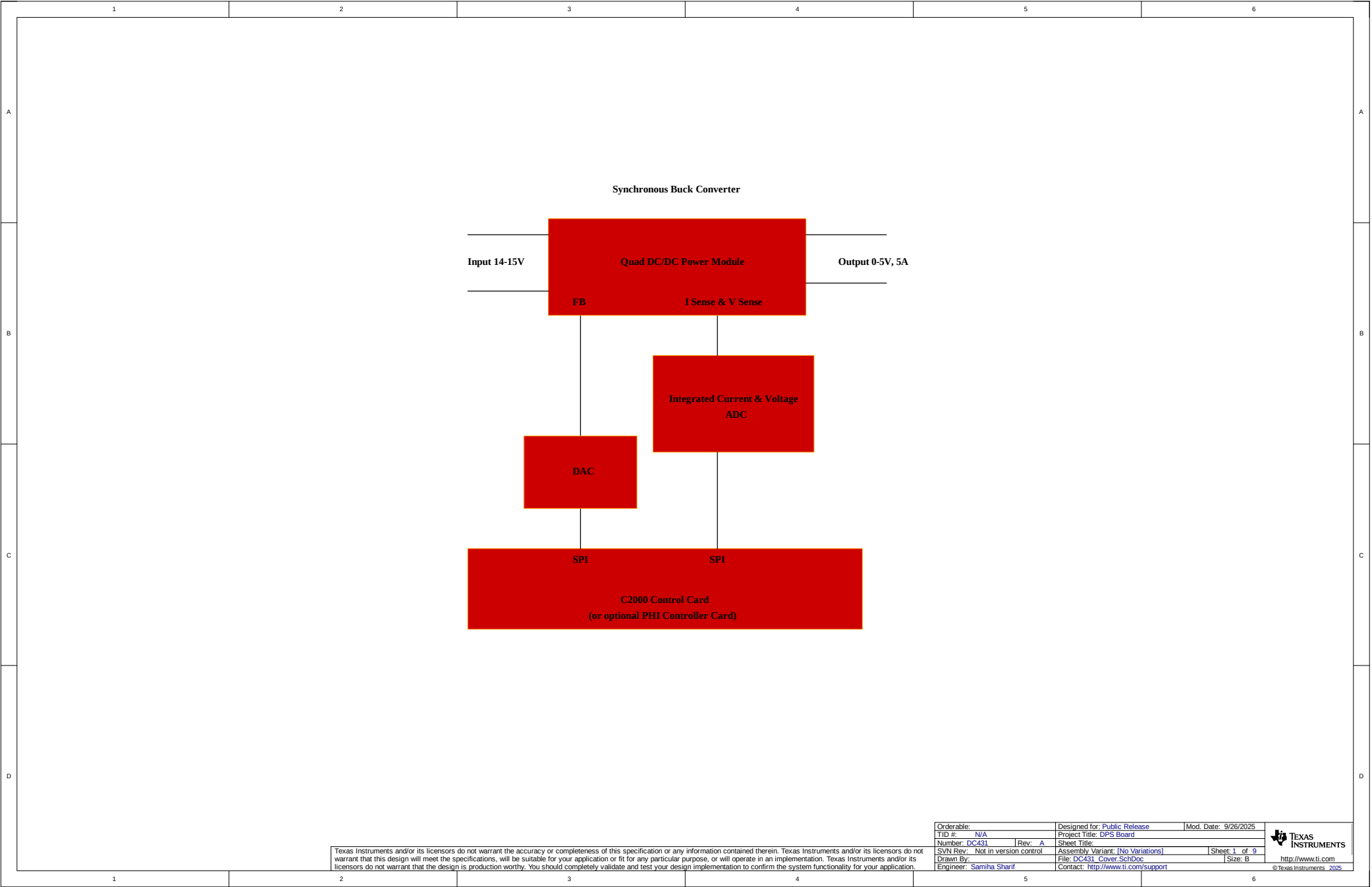
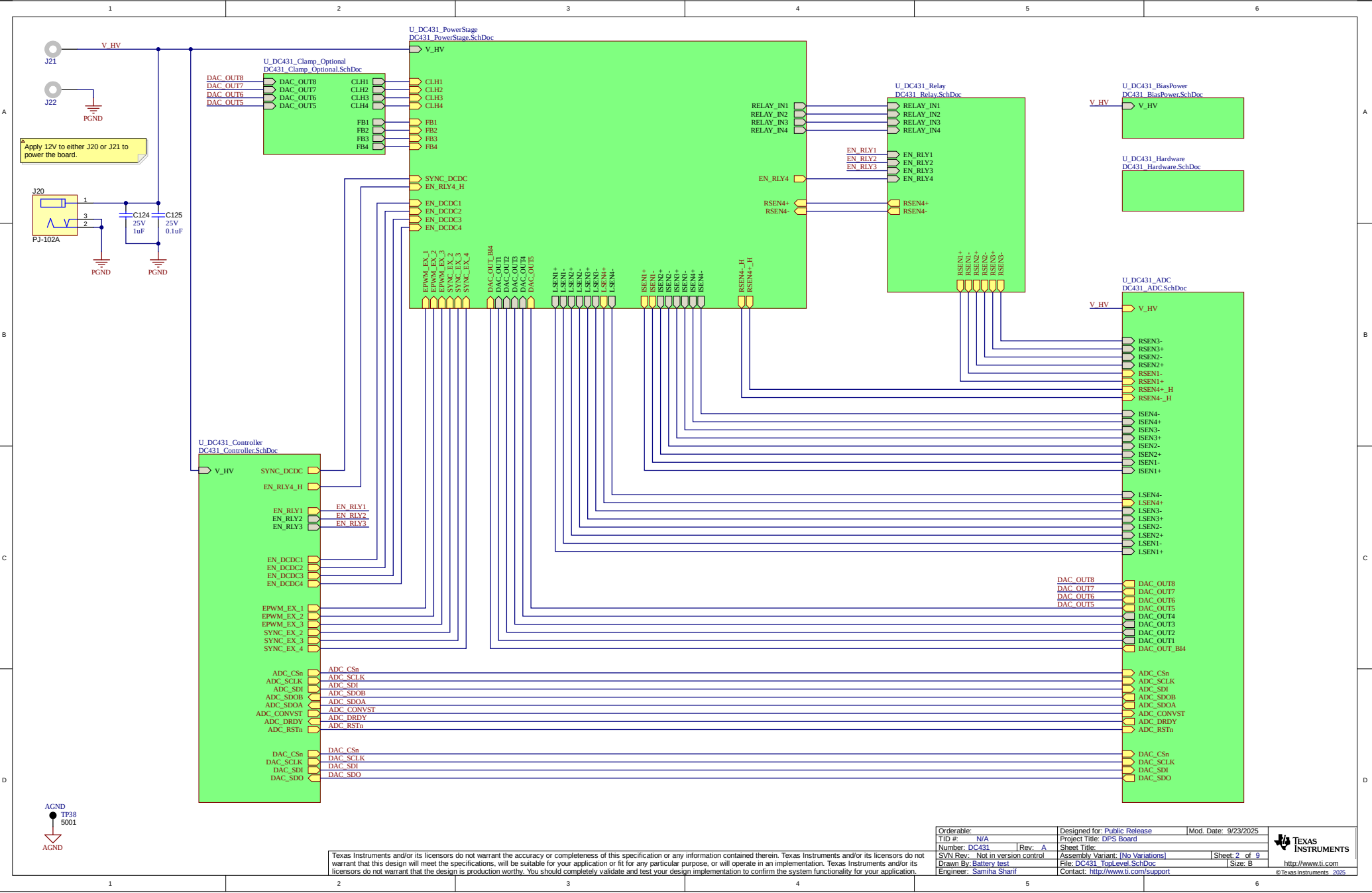






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Orderable:	Designed for: Public Release	Mod. Date: 9/23/2025
TID #:	N/A	Project Title: DPS Board
Number: DC431	Rev: A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: [No Variations]	Sheet: 2 of 9
Drawn By: Battery test	File: DC431_TopLevel.SchDoc	Size: B
Engineer: Samiha Sharif	Contact: http://www.ti.com/support	

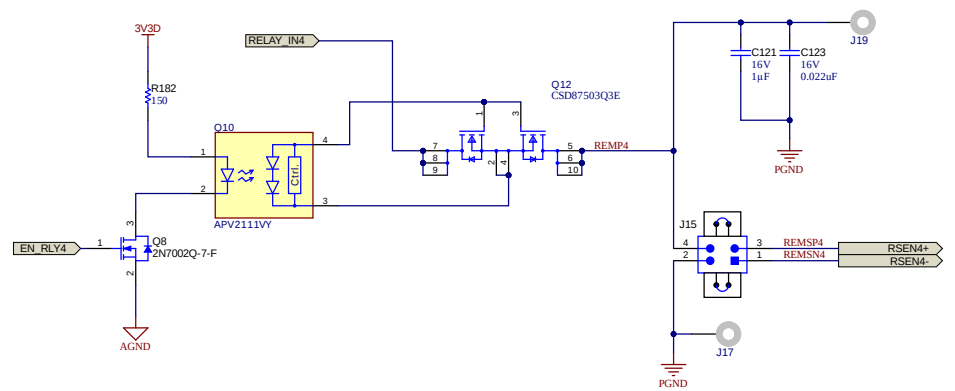
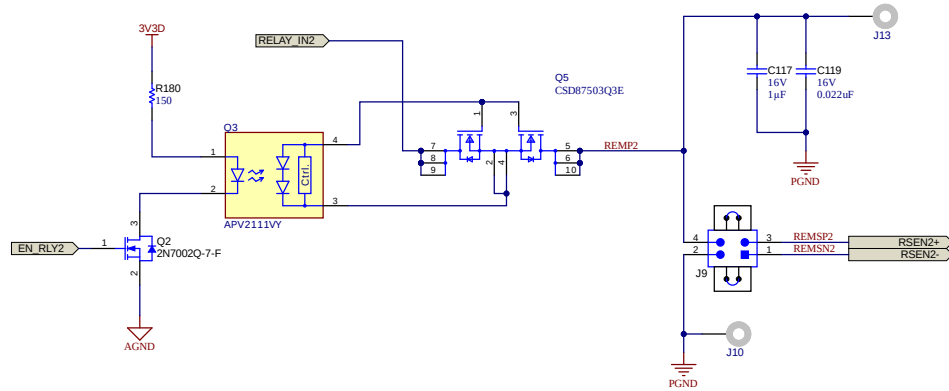
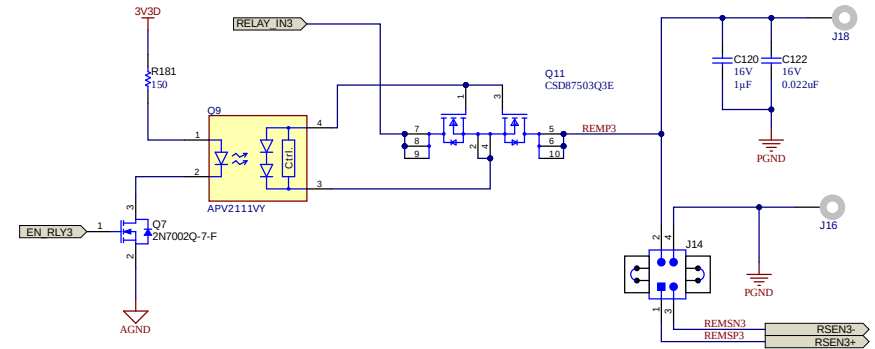
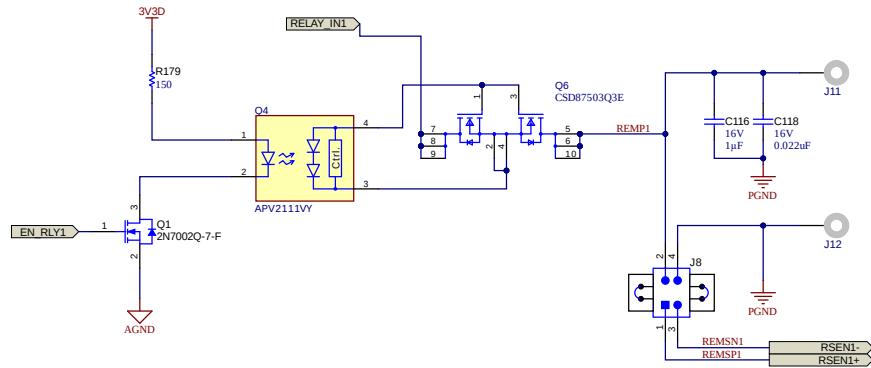


DC/DC Module



Connectors for external DC/DC module

Relay



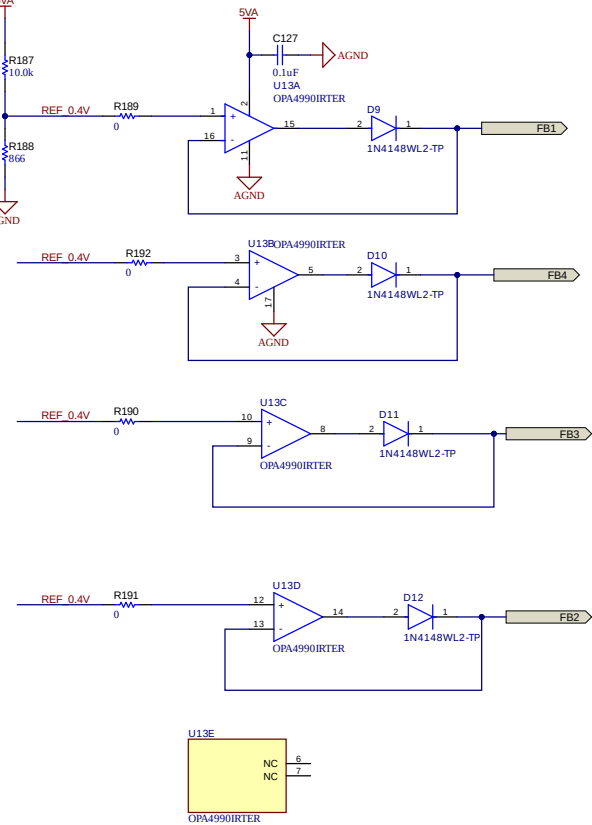
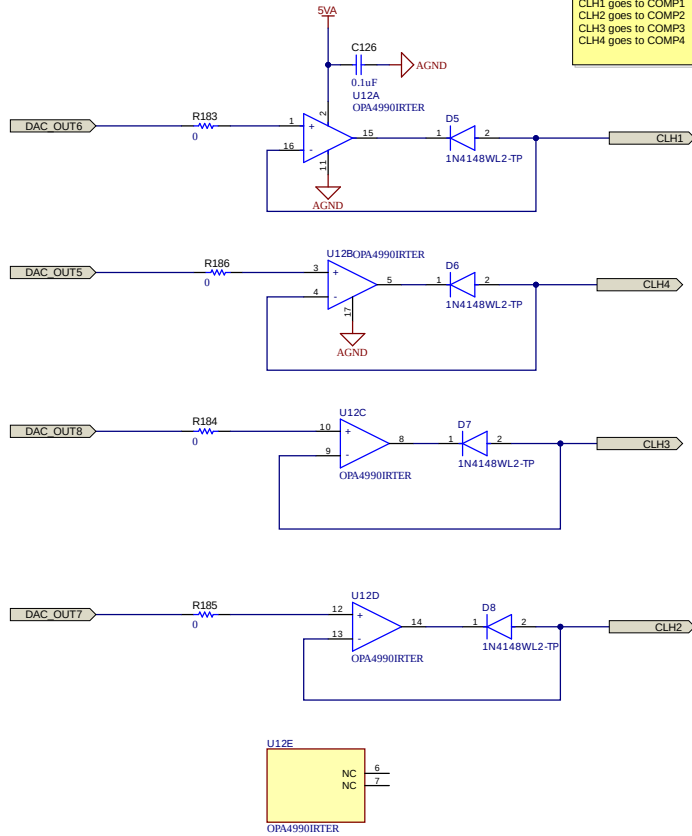
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Number: DC431	Rev: A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: [No Variations]	Sheet: 4 of 9
Drawn By: Battery test	File: DC431_Relay_SchDoc	Size: B
Engineer: Samiha Sharif	Contact: http://www.ti.com/support	http://www.ti.com

CLH1 goes to COMP1
CLH2 goes to COMP2
CLH3 goes to COMP3
CLH4 goes to COMP4

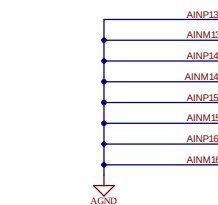
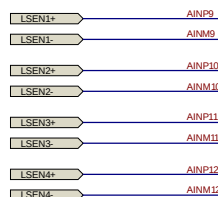
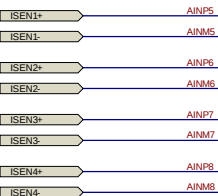
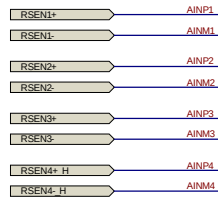
CLH1 goes to COMP1
CLH2 goes to COMP2
CLH3 goes to COMP3
CLH4 goes to COMP4

0.4V FB Clamp L

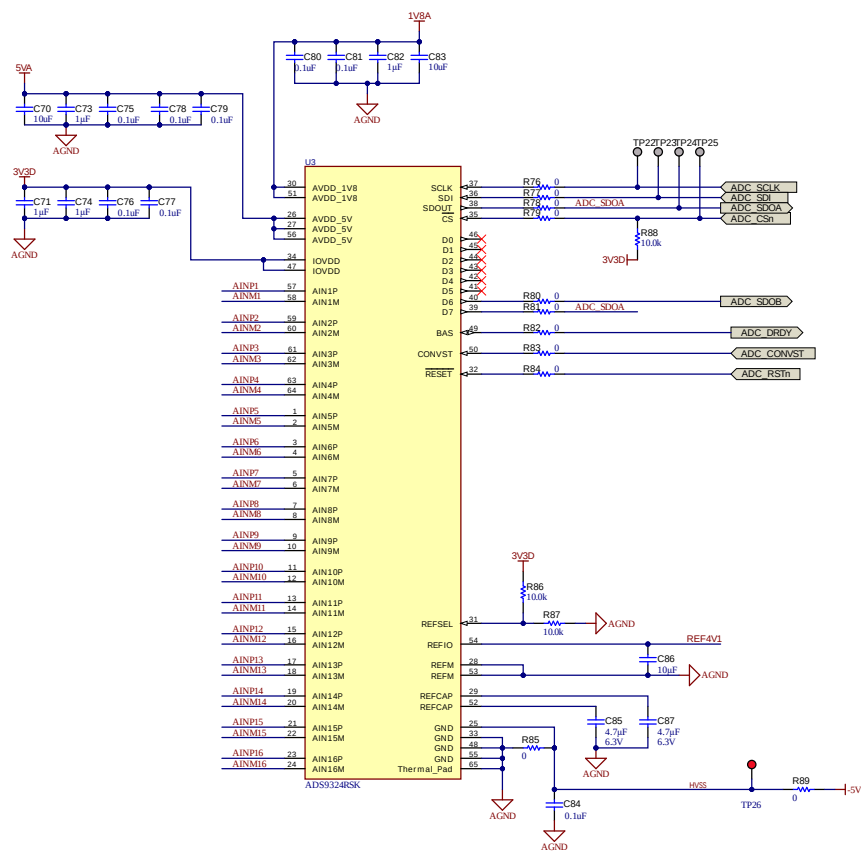


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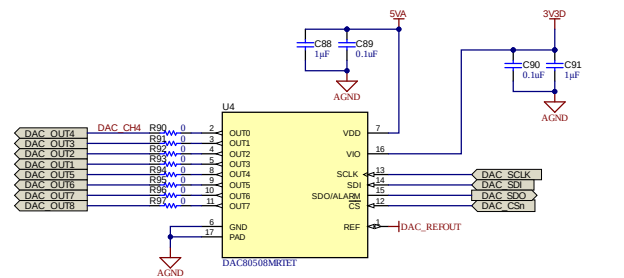
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Number: DC431	Rev: A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: [No Variations]	Sheet: 5 of 9
Drawn By:	File: DC431_Clamp_Optional.SchDoc	Size: B
Engineer: Samiha Sharif	Contact: http://www.ti.com/support	http://www.ti.com



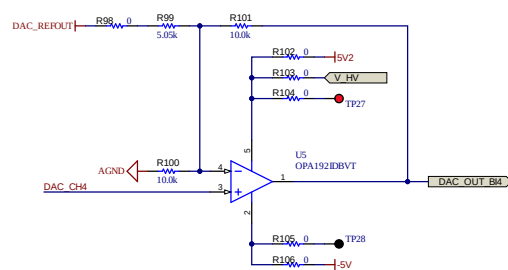
External ADC



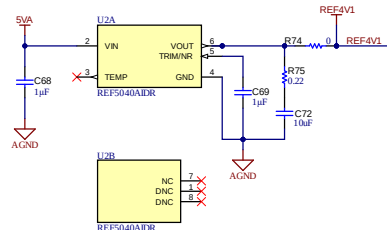
DAC



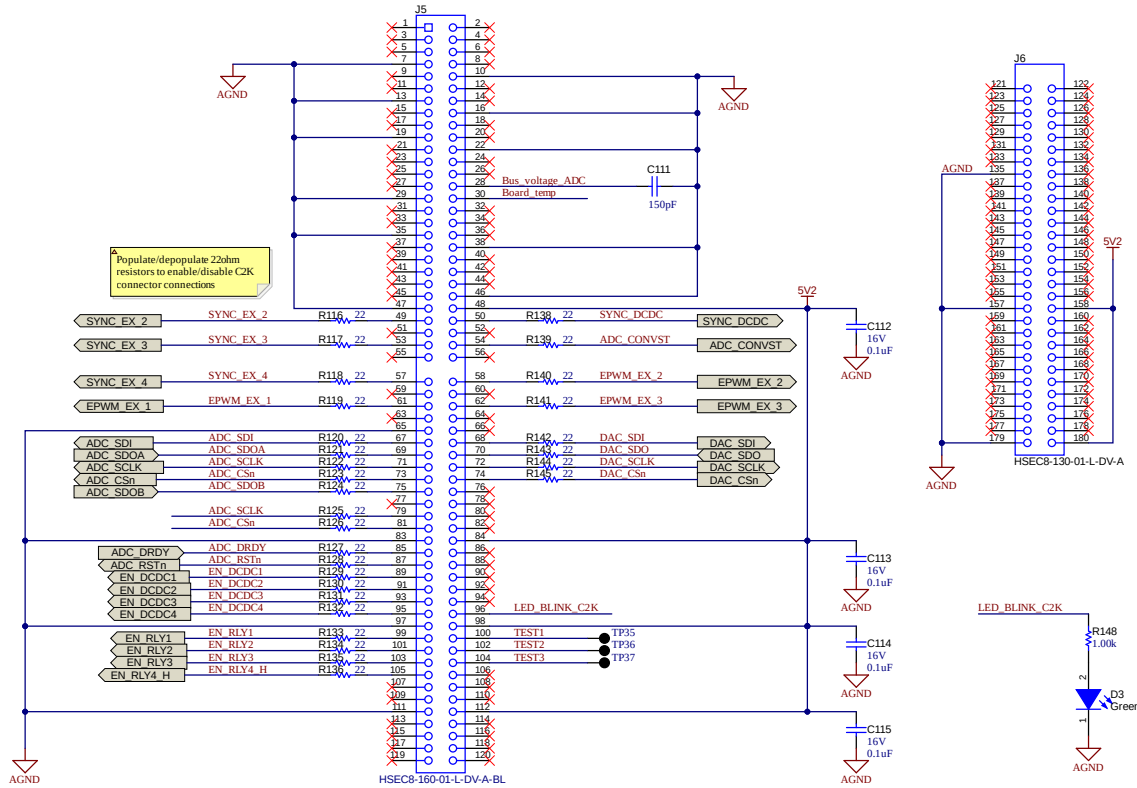
Amps to make DAC output bipolar



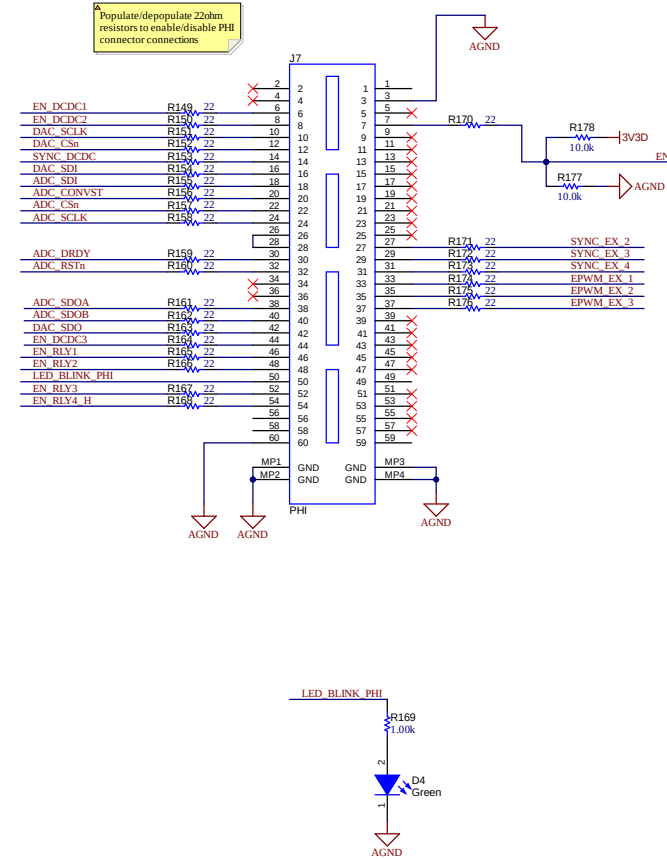
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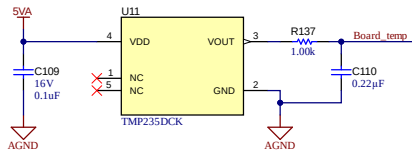
F28P65 Control Card Connector



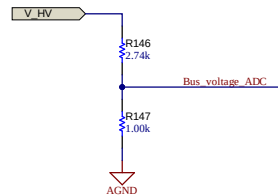
PHI FPGA Controller Card Connector



Temperature Sense



Input Bus Voltage Sense via C2K ADC

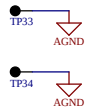
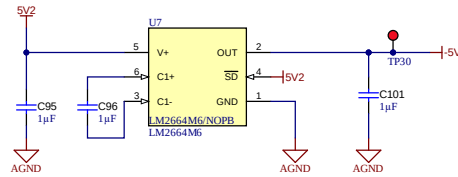
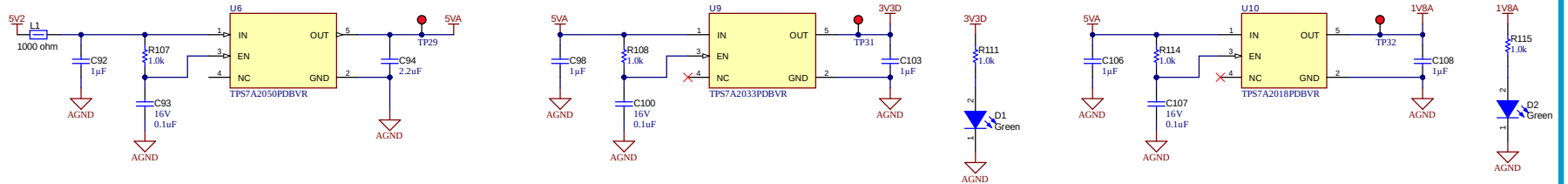
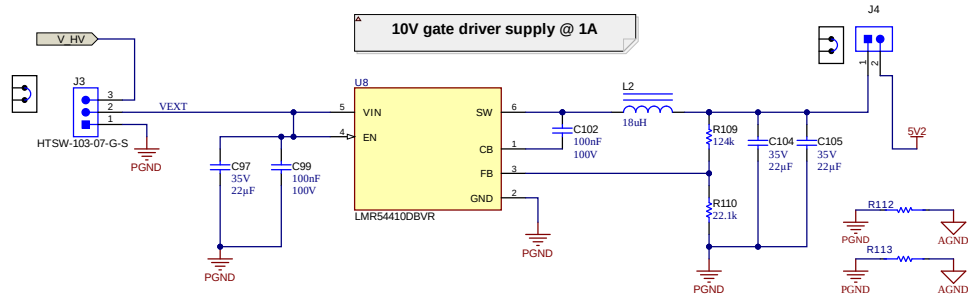


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TID #:	N/A	Project Title: DPS Board
Number: DC431	Rev: A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: [No Variations]	Sheet: 7 of 9
Drawn By: Battery test	File: DC431_Controller_SchDoc	Size: B
Engineer: Samiha Sharif	Contact: http://www.ti.com/support	

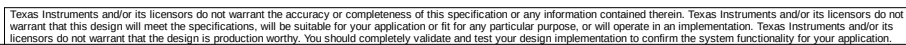
BIAS POWER

10V gate driver supply @ 1A



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Orderable:	Designed for: Public Release	Mod. Date: 9/26/2025
TID #:	N/A	Project Title: DPS Board
Number: DC431	Rev: A	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: [No Variations]	Sheet: 8 of 9
Drawn By: Battery test	File: DC431_BiasPower.SchDoc	Size: B
Engineer: Samiha Sharif	Contact: http://www.ti.com/support	



Board Stack Report

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