

H5

1902C

H6

1902C

H8

1902C



PCB Number: XXX###

PCB Rev: E1

PCB

LOGO

Texas Instruments



PCB

LOGO

FCC disclaimer

PCB

LOGO

WEEE logo

LBL1

PCB Label

THT-14-423-10

Size: 0.65" x 0.20 "

|                                                      |                                                    |                                                                                                                 |                                               |
|------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Orderable: <a href="#">ChangeMe in variant</a>       |                                                    | Designed for: <a href="#">Public Release</a>                                                                    | Mod. Date: <a href="#">11/4/2024</a>          |
| TID #: <a href="#">N/A</a>                           |                                                    | Project Title: <a href="#">Change in menu Project</a> <a href="#">Project Options</a> <a href="#">Parameter</a> |                                               |
| Number: <a href="#">XXX###</a>                       | Rev: <a href="#">E1</a>                            | Sheet Title:                                                                                                    |                                               |
| SVN Rev: <a href="#">Not in version control</a>      | Assembly Variant: <a href="#">001</a>              |                                                                                                                 | Sheet: <a href="#">1</a> of <a href="#">8</a> |
| Drawn By:                                            | File: <a href="#">PCB Project Hardware.SchDoc</a>  |                                                                                                                 | Size: B                                       |
| Engineer: <a href="#">Enter name of project lead</a> | Contact: <a href="#">http://www.ti.com/support</a> |                                                                                                                 |                                               |

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A

B

C

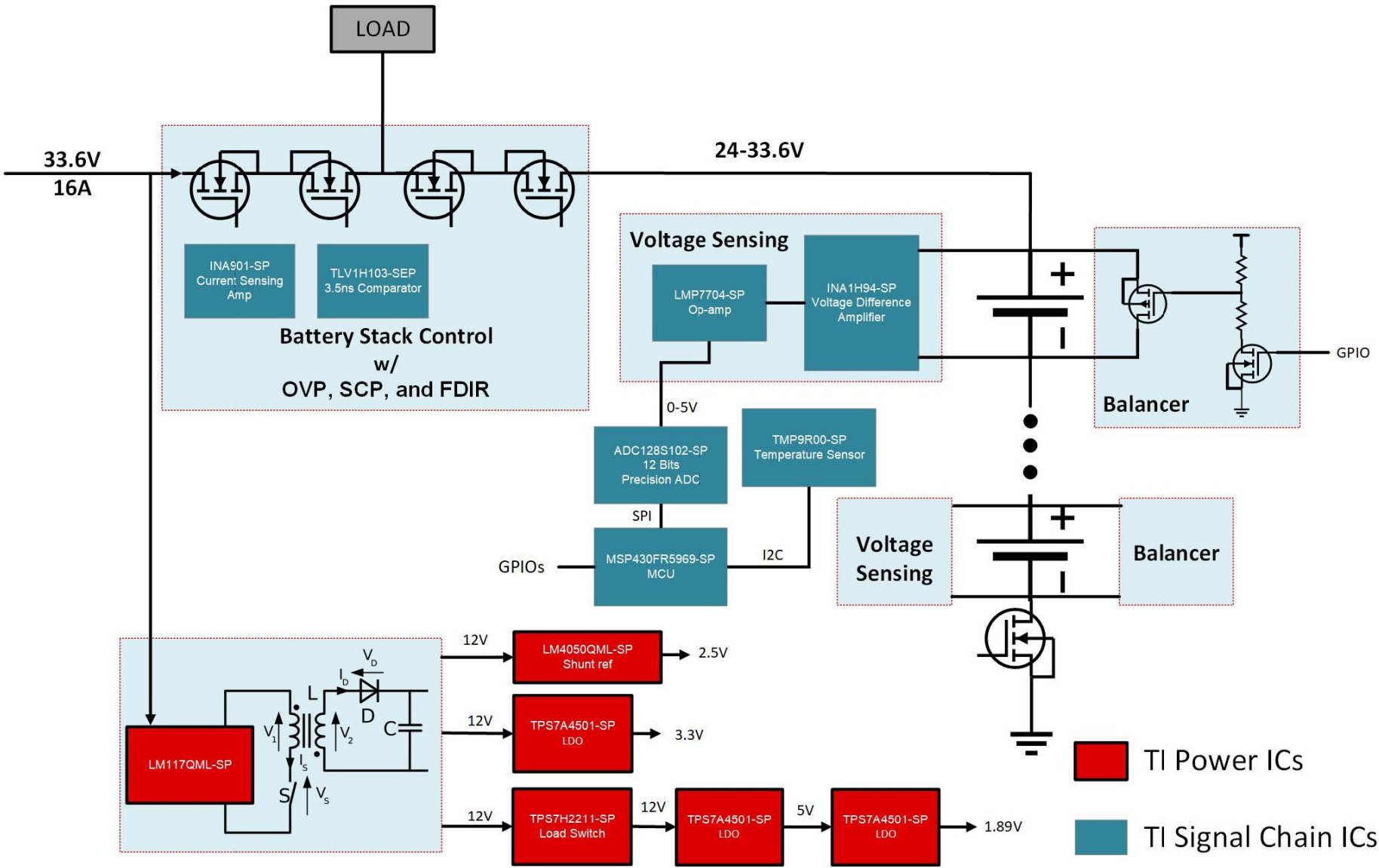
D

A

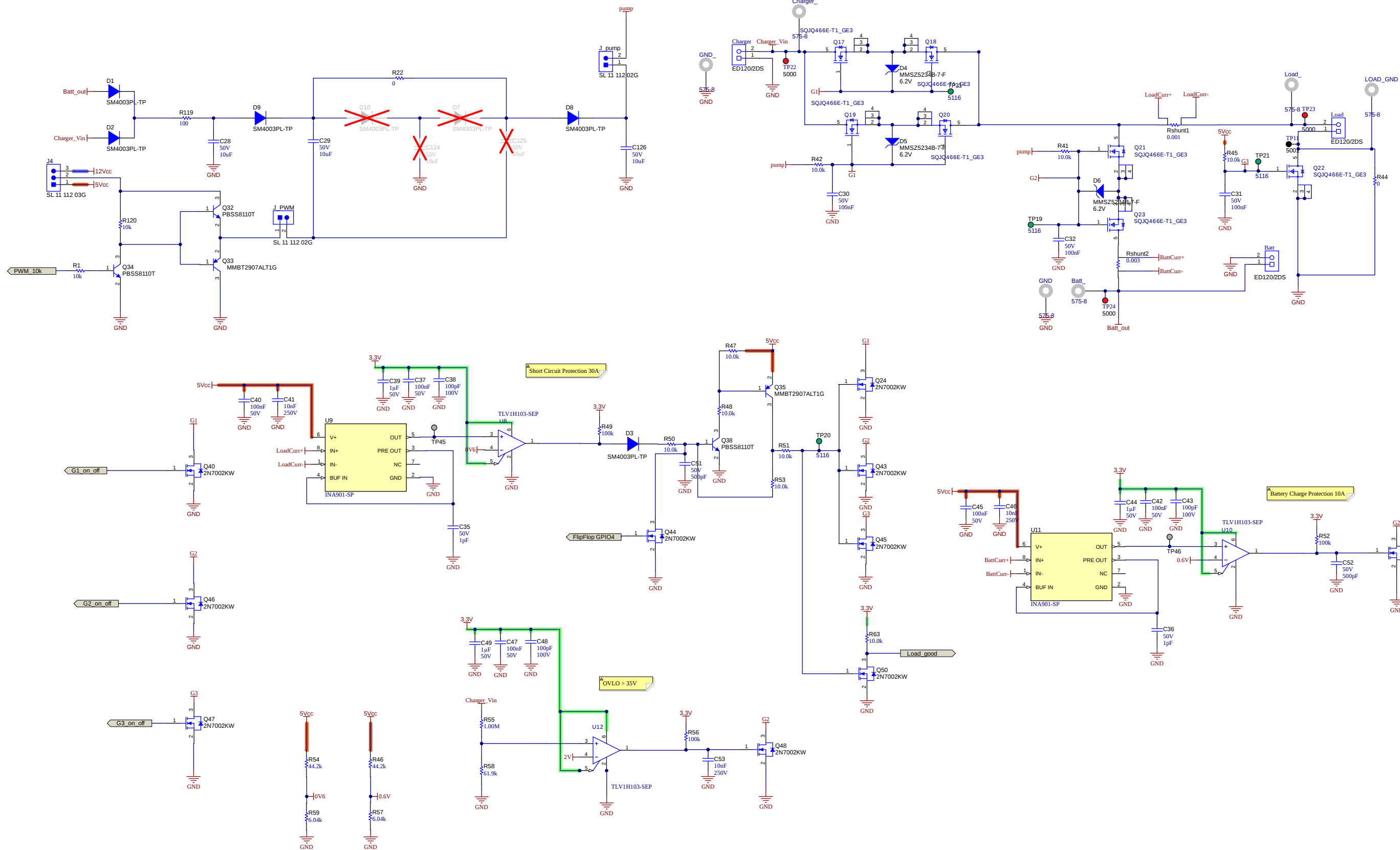
B

C

D



Battery Management System



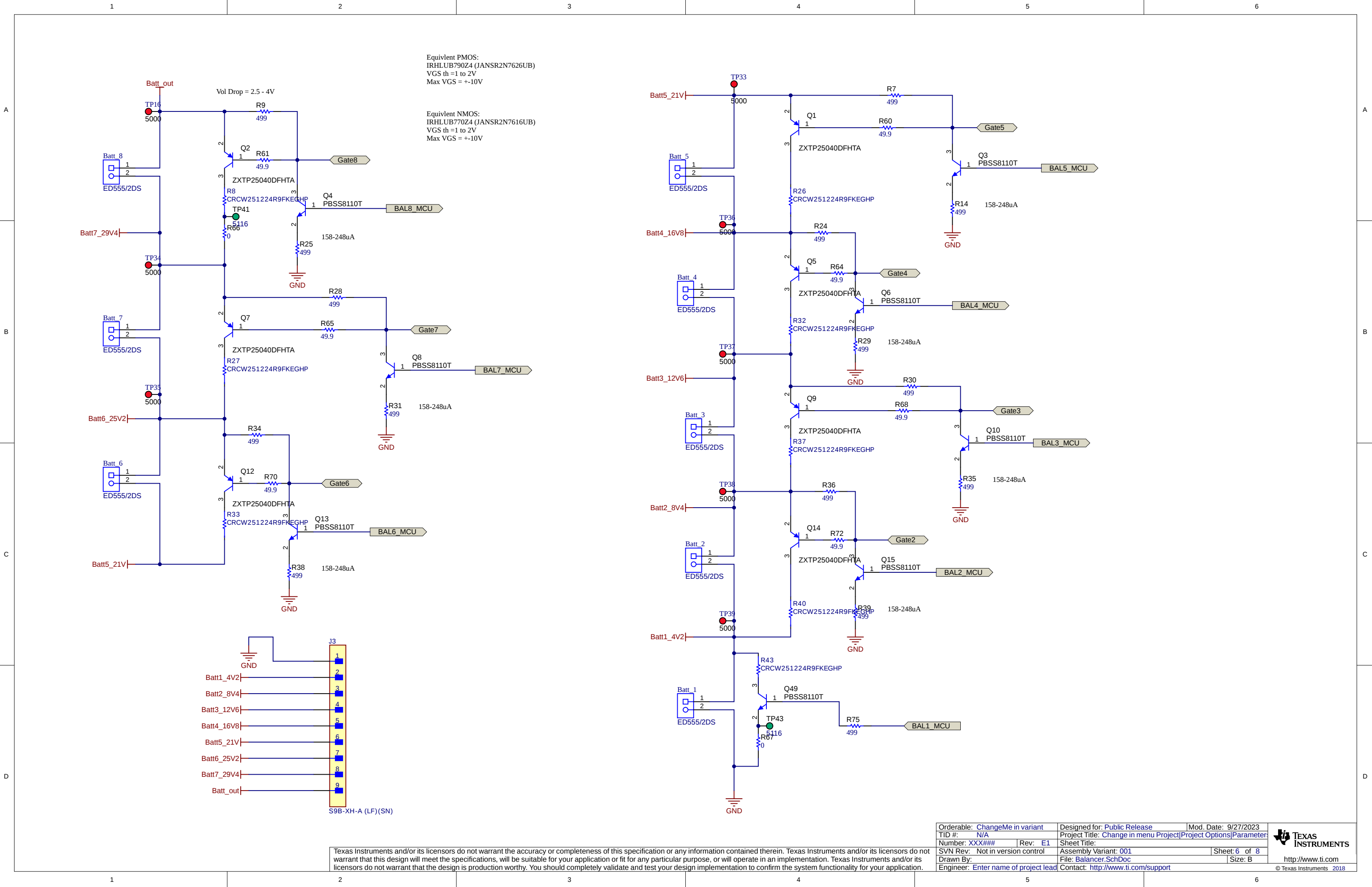
LDO - 33.6V to 12V  
From top of stack to TPS7H5001-SP

12V to 5V LDO  
Vbais for the ADC128S103QML-SP

3V3 power for ADC128

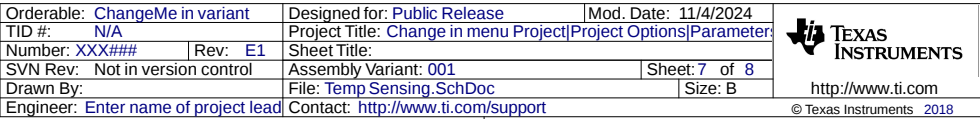
Power Sequencing:  
1- 3.3V for MCU  
2- 12V for INA1H94 -SP  
3- 5V for ADC128S102-SP & LMP7704-SP  
4- 3.3V for ADC128S102-SP & Temp Sensor Pull up  
5- 1.89V for TMP9R00-SP  
6- 2.5V turns on automatically



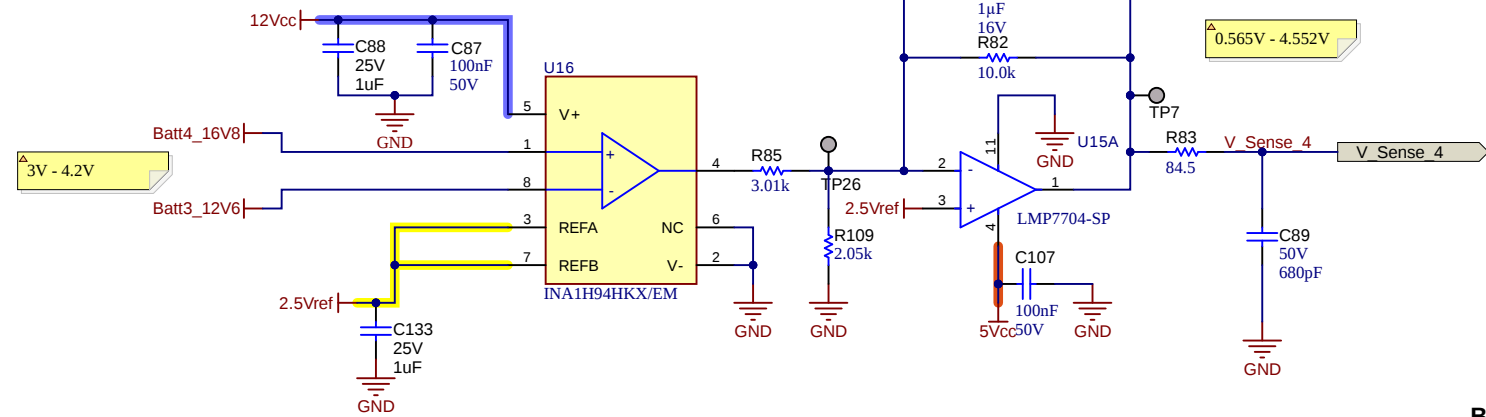


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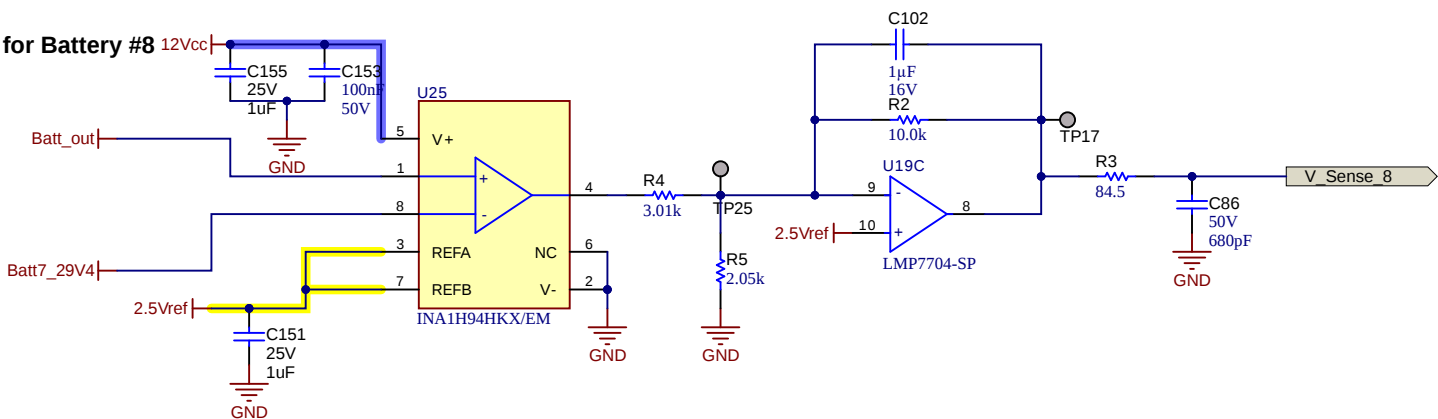
|                                                      |                                                       |                                      |
|------------------------------------------------------|-------------------------------------------------------|--------------------------------------|
| Orderable: <a href="#">ChangeMe in variant</a>       | Designed for: <a href="#">Public Release</a>          | Mod. Date: 9/27/2023                 |
| TID #: N/A                                           | Project Title: <a href="#">Change in menu Project</a> | Parameter: <a href="#">Parameter</a> |
| Number: XXX###                                       | Rev: E1                                               | Sheet Title:                         |
| SVN Rev: Not in version control                      | Assembly Variant: 001                                 | Sheet: 6 of 8                        |
| Drawn By:                                            | File: <a href="#">Balancer.SchDoc</a>                 | Size: B                              |
| Engineer: <a href="#">Enter name of project lead</a> | Contact: <a href="#">http://www.ti.com/support</a>    |                                      |



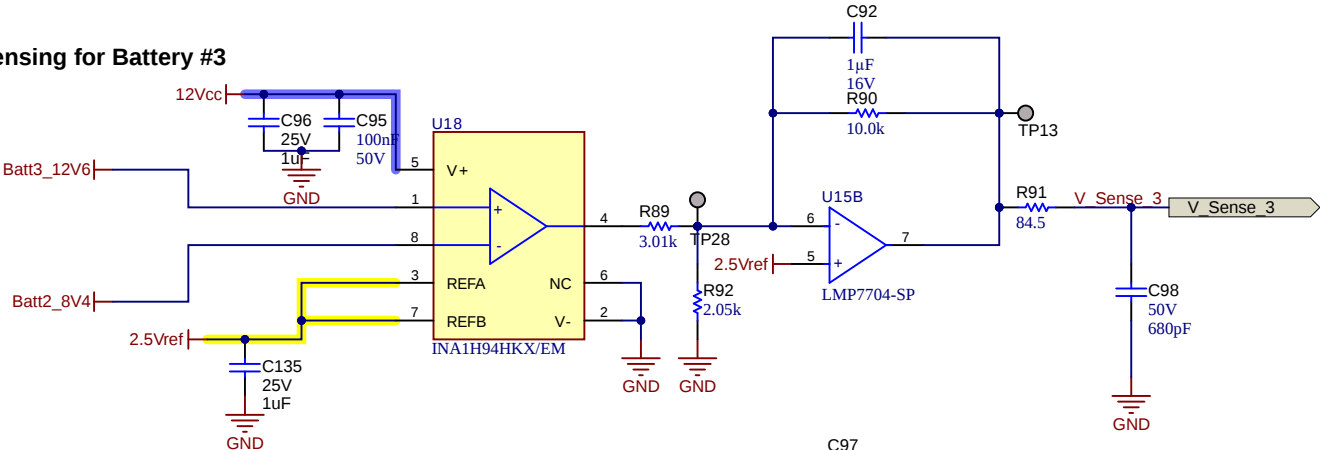
Battery Sensing for Battery #4



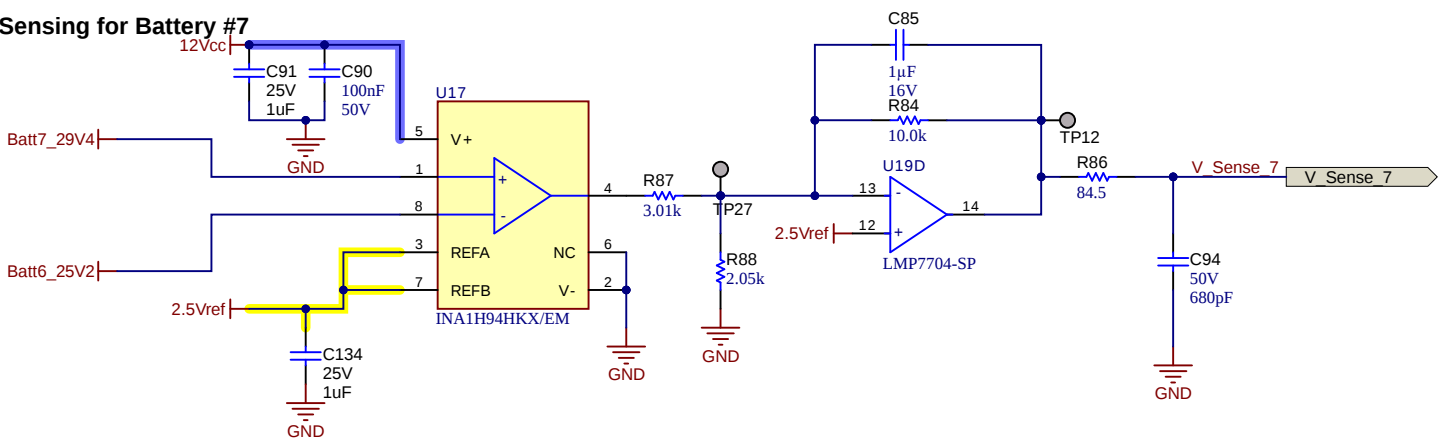
Battery Sensing for Battery #8



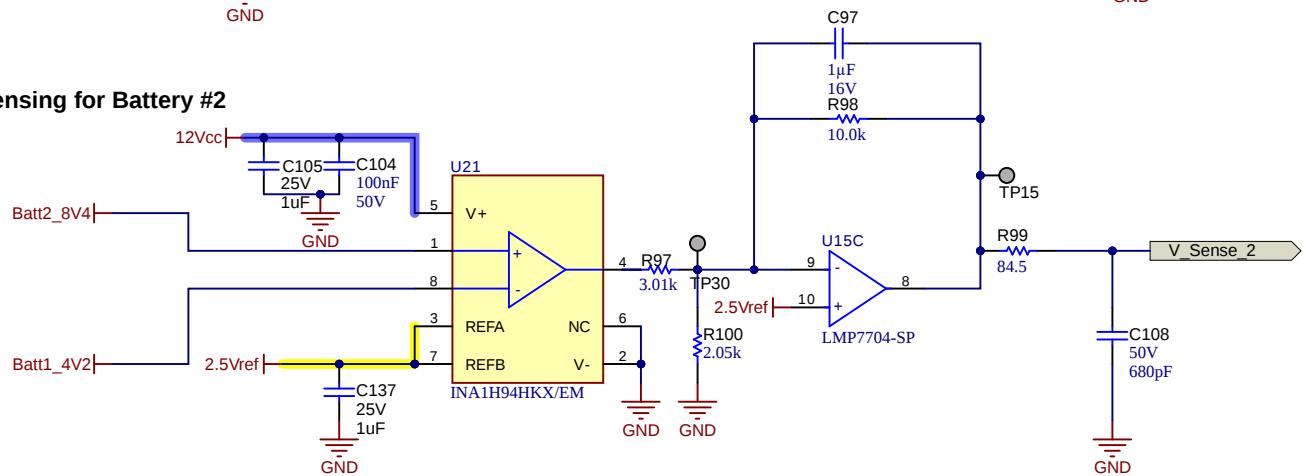
Battery Sensing for Battery #3



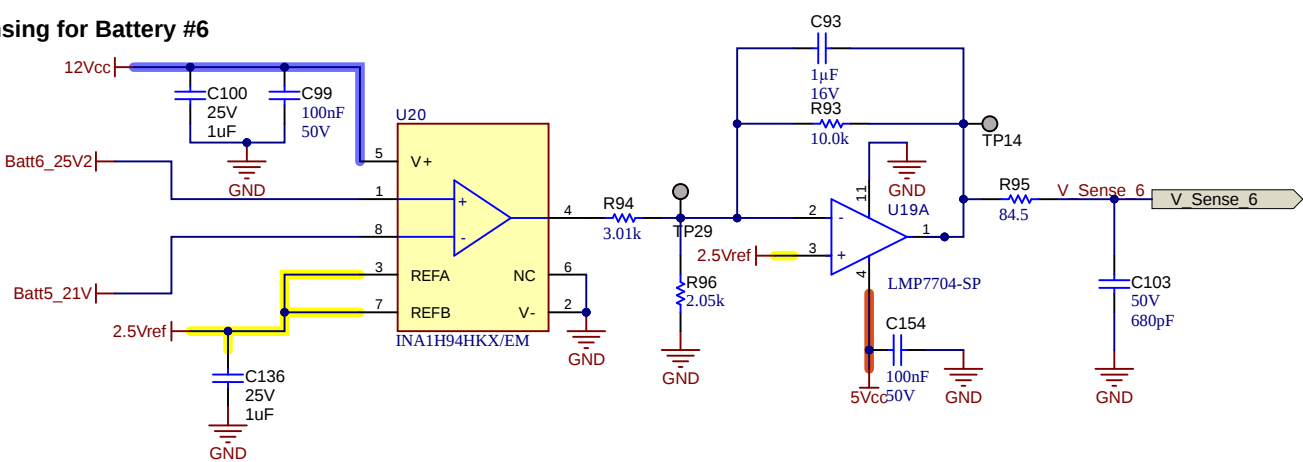
Battery Sensing for Battery #7



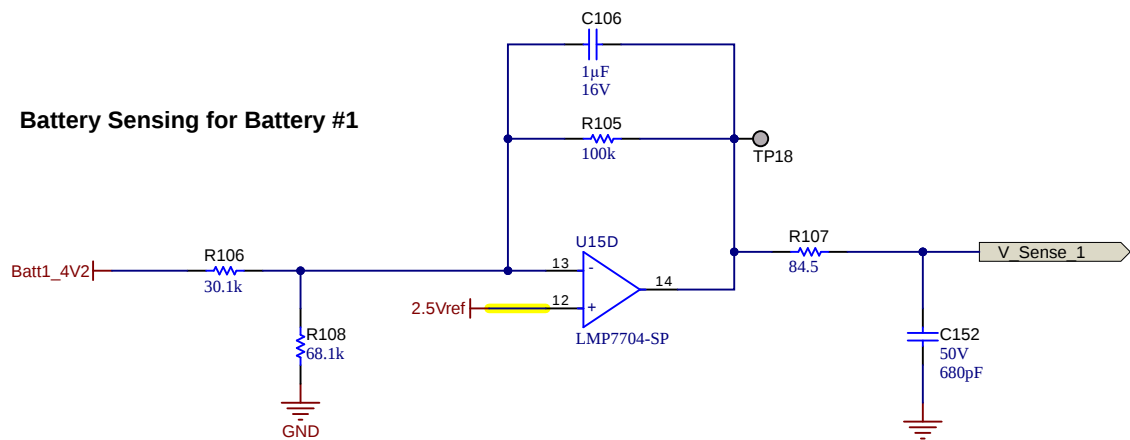
Battery Sensing for Battery #2



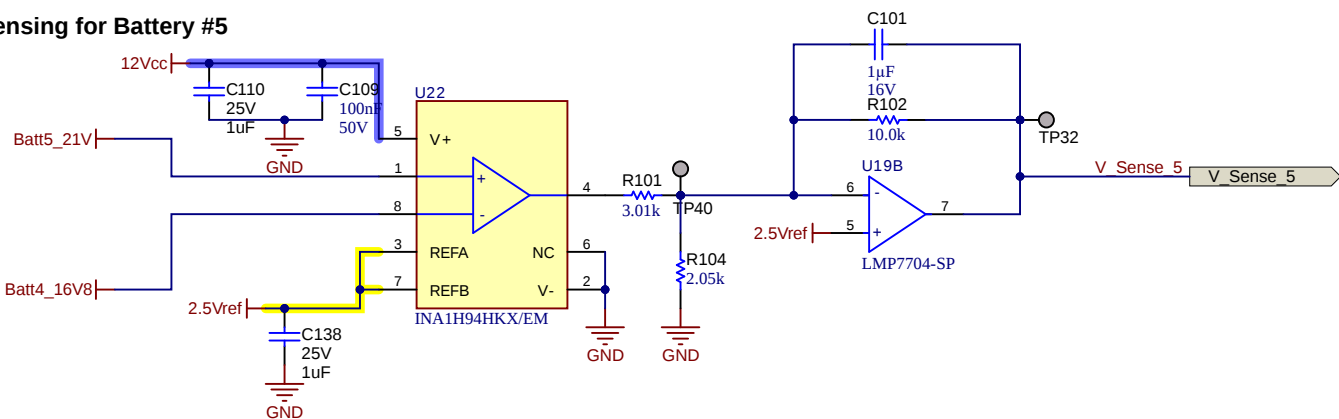
Battery Sensing for Battery #6



Battery Sensing for Battery #1



Battery Sensing for Battery #5



12V bias & 2.5Vref supply will be toggled on/off with the TPS7H2211-SP Load

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|                                                      |                                                       |                      |
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| Number: XXX###                                       | Rev: E1                                               | Sheet Title:         |
| SVN Rev: Not in version control                      | Assembly Variant: 001                                 | Sheet: 8 of 8        |
| Drawn By:                                            | File: <a href="#">Monitor.SchDoc</a>                  | Size: B              |
| Engineer: <a href="#">Enter name of project lead</a> | Contact: <a href="#">http://www.ti.com/support</a>    |                      |

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