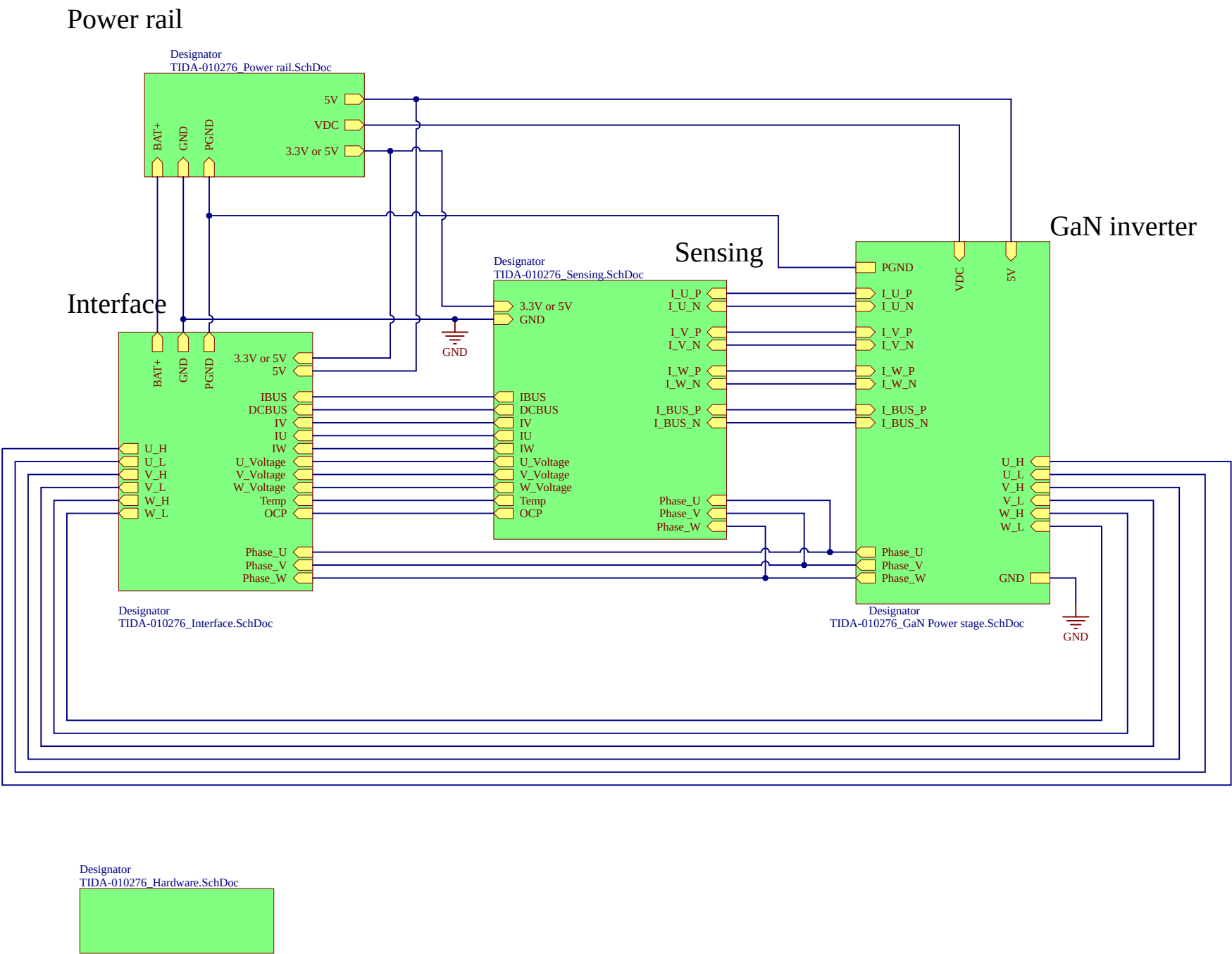
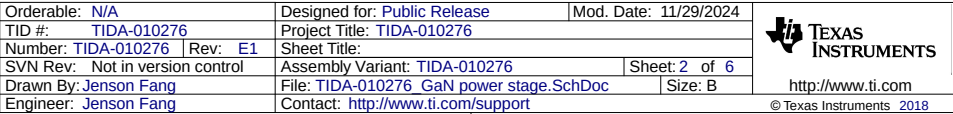


Revision History				
Rev	ECN #	Approved Date	Approved by	Notes
N/A	N/A	N/A	N/A	N/A

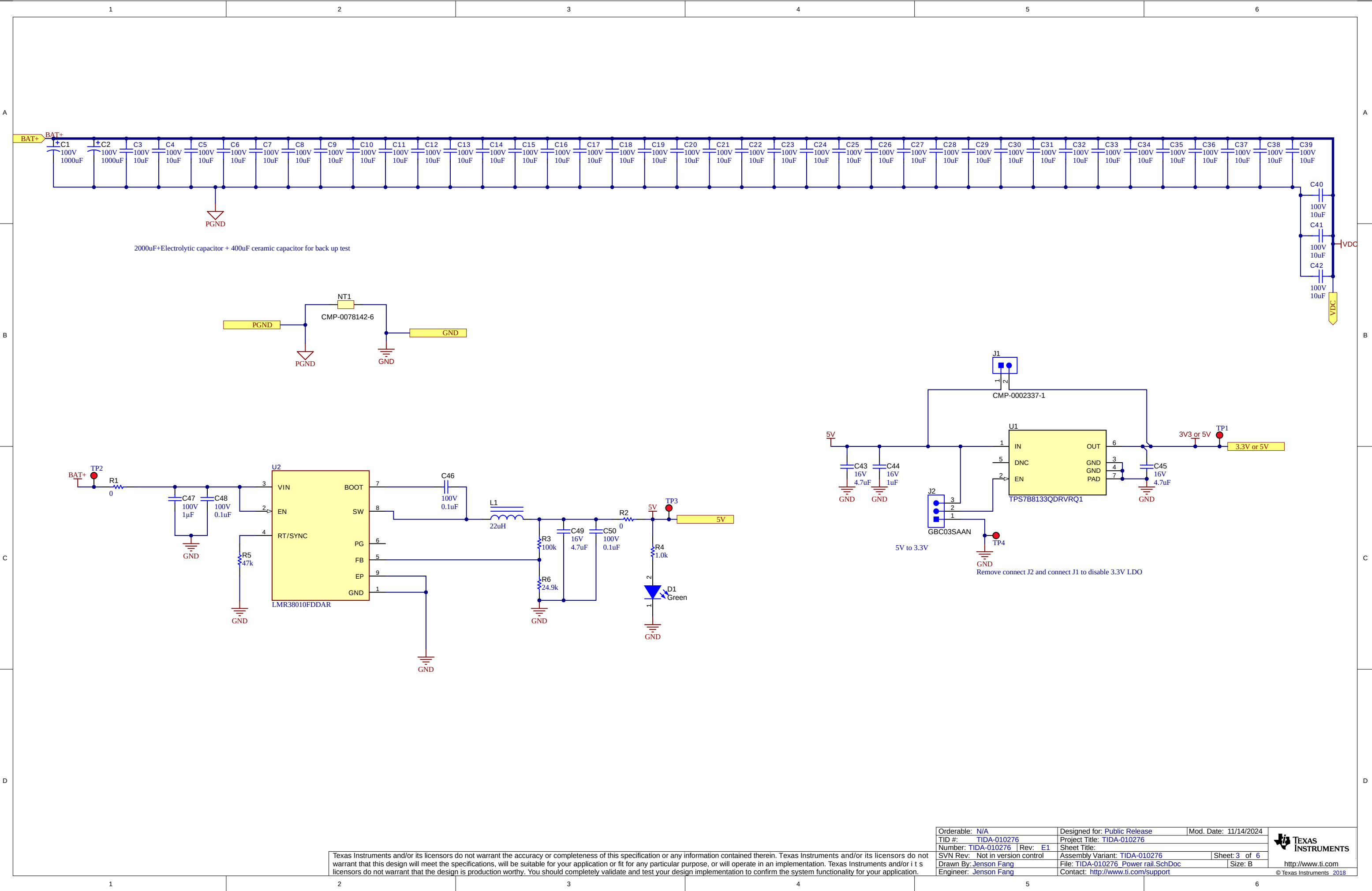


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Orderable: N/A	Designed for: Public Release	Mod. Date: 11/29/2024
TID #: TIDA-010276	Project Title: TIDA-010276	
Number: TIDA-010276	Rev: E1	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: TIDA-010276	Sheet: 1 of 6
Drawn By: Jensen Fang	File: TIDA-010276 Main.SchDoc	Size: B
Engineer: Jensen Fang	Contact: http://www.ti.com/support	



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1

2

3

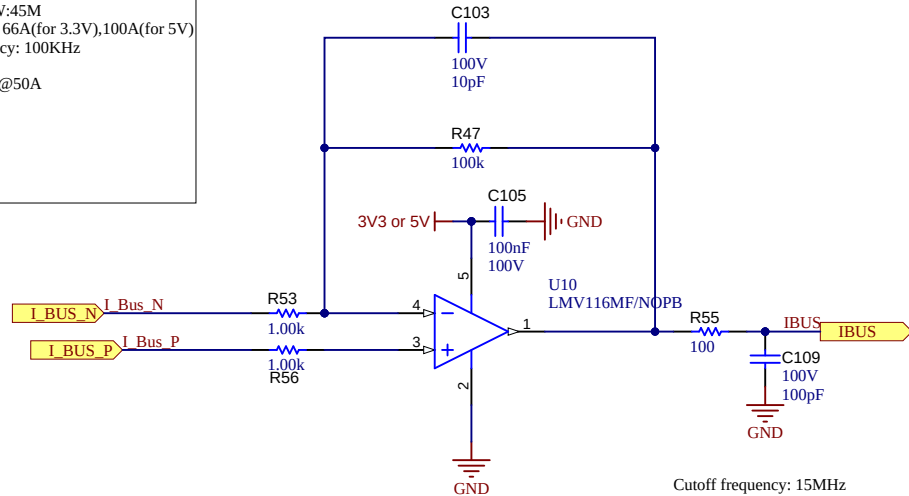
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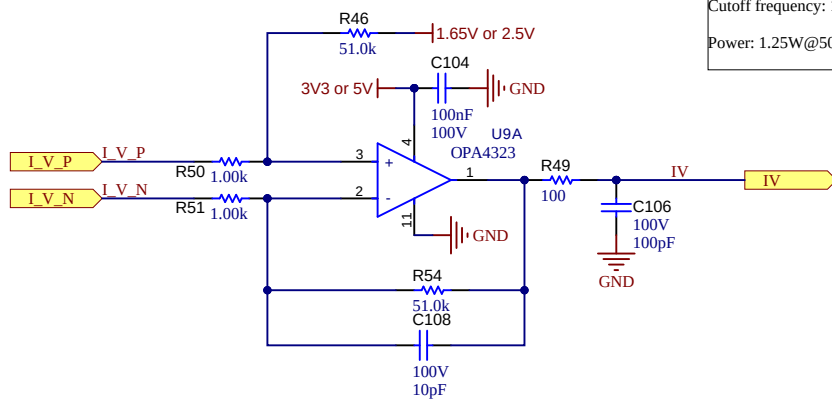
Bus current sensing

Shunt: 0.5m Ω
Gain:100,GBW:45M
Current range: 66A(for 3.3V),100A(for 5V)
Cutoff frequency: 100KHz
Power: 1.25W@50A



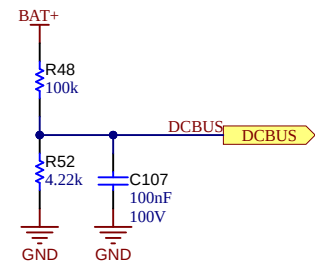
Phase Current sensing

Shunt: 0.5m Ω
Gain:51
Current range:
 $\pm$ 64.7A(for 3.3V,0.5mohm),
 $\pm$ 98A(for 3.3V,0.5mohm),
Cutoff frequency: 100KHz
Power: 1.25W@50A

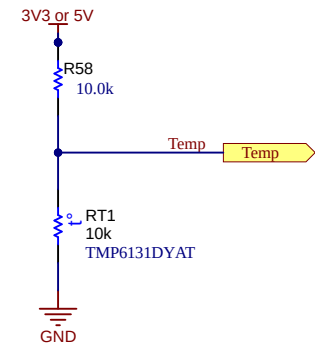


Bus voltage sensing

80V (abs max) scaled to
3.3V
80V->3.23V, 48V->1.94V
.36V ->1.45V
Cutoff frequency: 397Hz

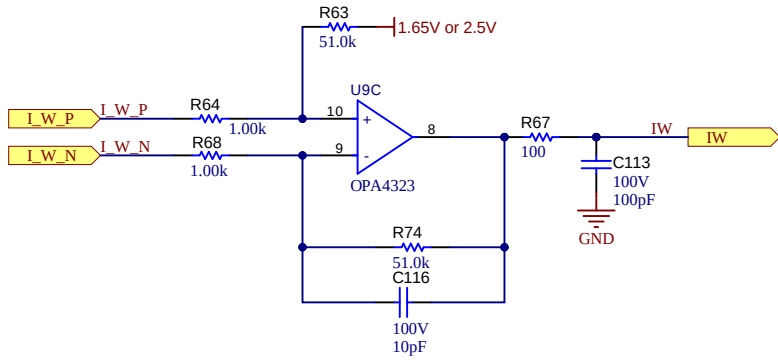
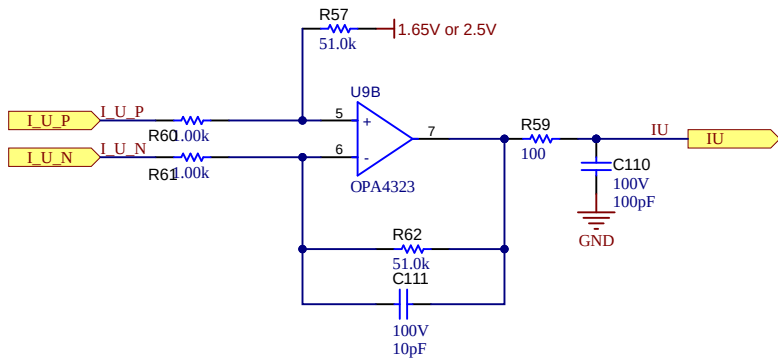
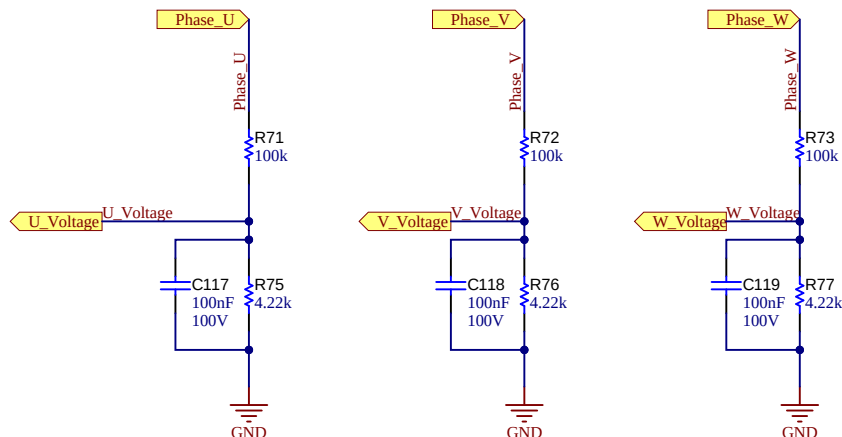


TMP sensing



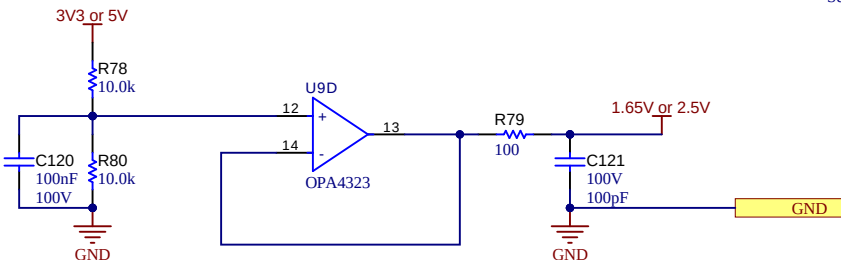
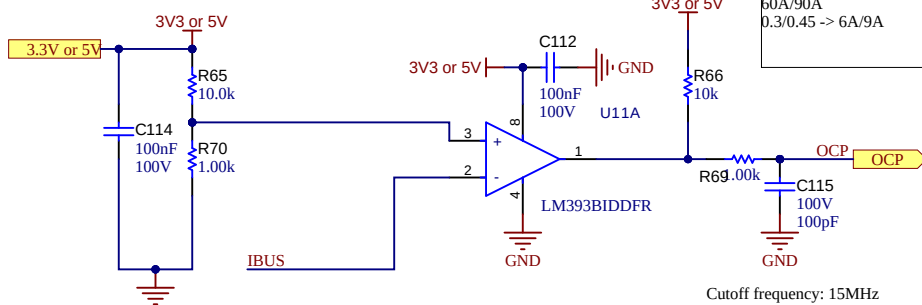
Phase Voltage sensing

80V (abs max) scaled to 3.3V
80V->3.23V, 48V->1.94V, .36V



Overcurrent Protection

3V/4.5V trigger ->+
60A/90A
0.3/0.45 -> 6A/9A

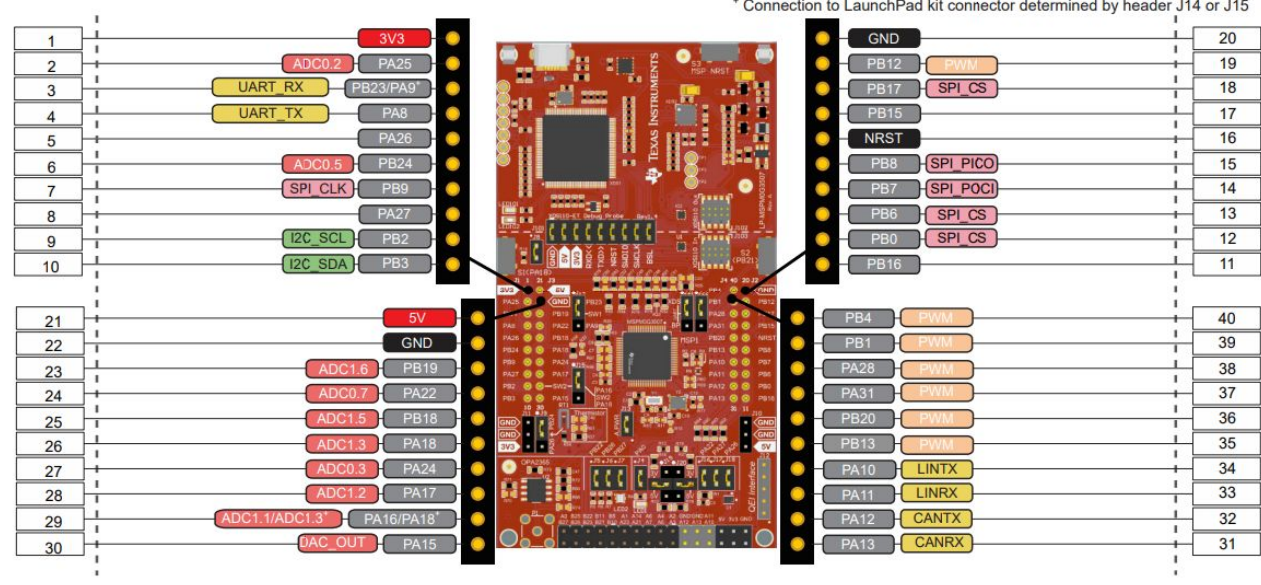


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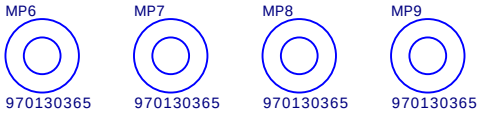
Orderable: N/A	Designed for: Public Release	Mod. Date: 11/29/2024
TID #: TIDA-010276	Project Title: TIDA-010276	
Number: TIDA-010276	Rev: E1	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: TIDA-010276	Sheet: 4 of 6
Drawn By: Jensen Fang	File: TIDA-010276 Sensing_SchDoc	Size: B
Engineer: Jensen Fang	Contact: http://www.ti.com/support	



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PCB Number: TIDA-010276

PCB Rev: E1

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Variant/Label Table	
Variant	Label Text
001	ChangeMe!
002	ChangeMe!

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