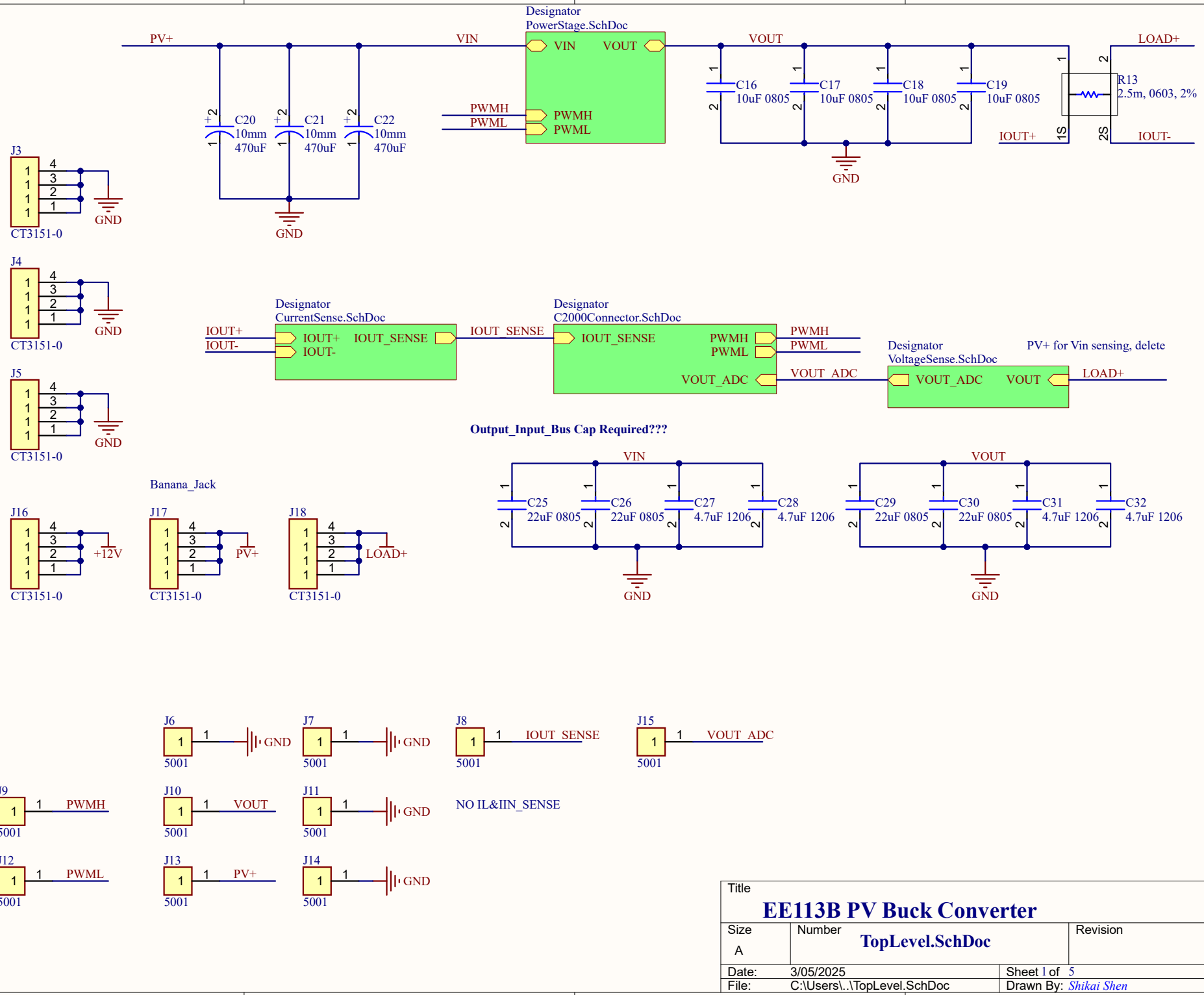
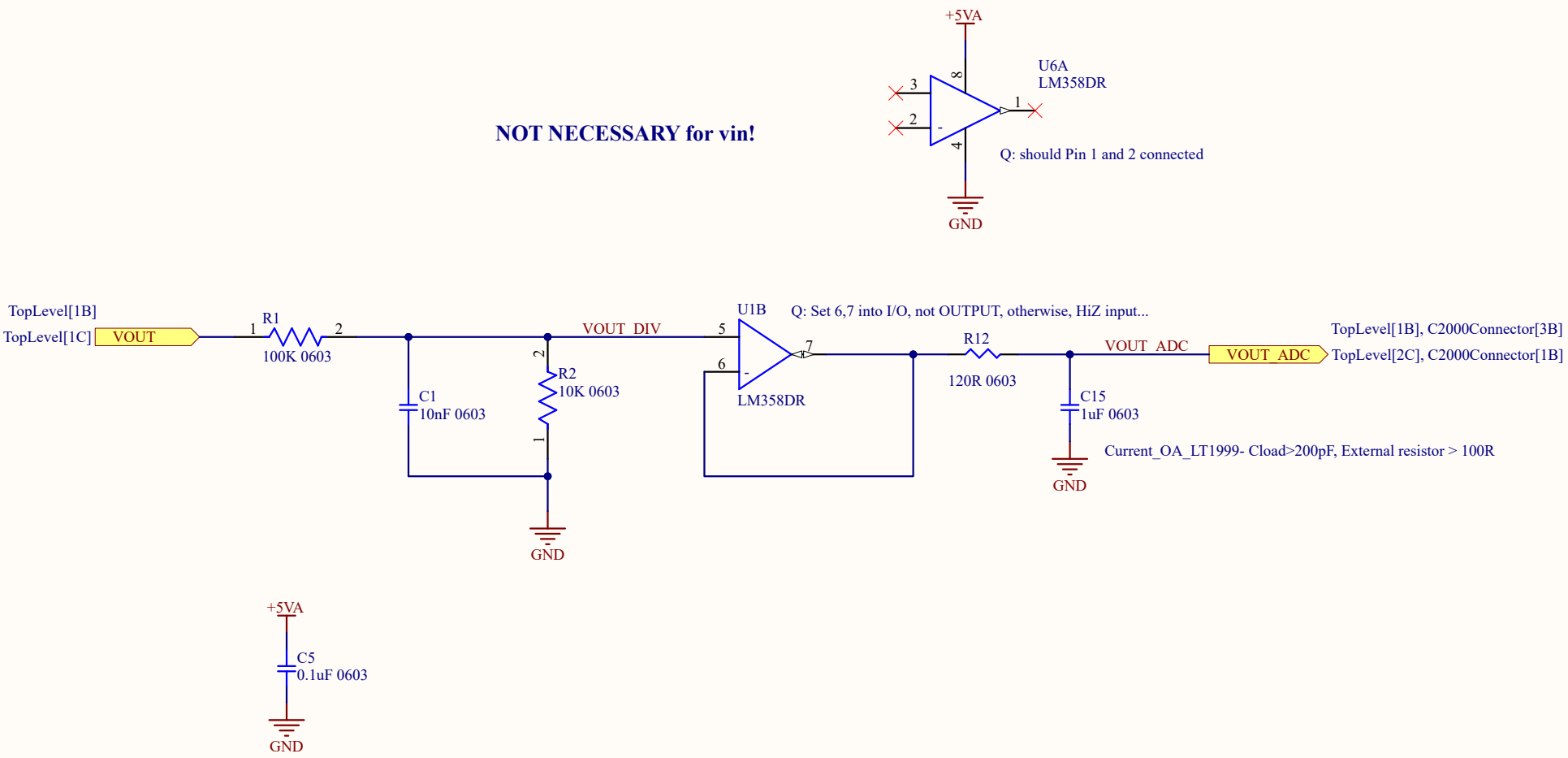
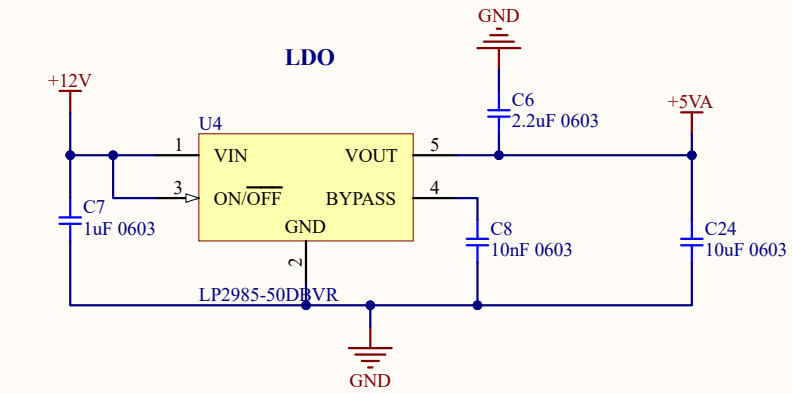
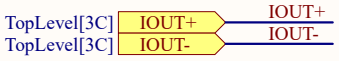
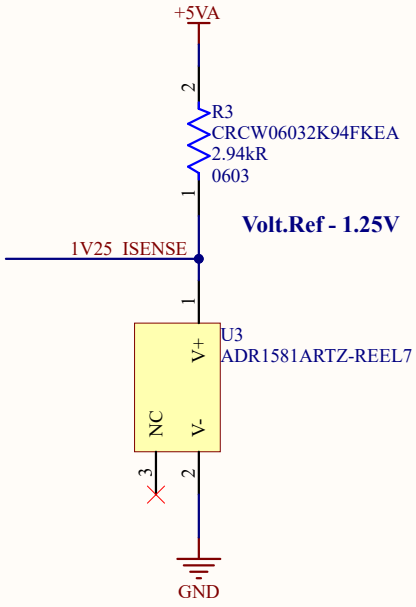

Designator
PowerStage.SchDoc
PV+
VIN
VOUT
LOAD+
PWMH
PWML
C20
10mm
470uF
C21
10mm
470uF
C22
10mm
470uF
C16
10uF 0805
C17
10uF 0805
C18
10uF 0805
C19
10uF 0805
R13
2.5m, 0603, 2%
IOUT+
IOUT-
GND
J3
J4
J5
CT3151-0
Designator
CurrentSense.SchDoc
IOUT_SENSE
Designator
C2000Connector.SchDoc
VOUT_ADC
Designator
VoltageSense.SchDoc
PV+ for Vin sensing, delete
Output_Input_Bus Cap Required???
C25
22uF 0805
C26
22uF 0805
C27
4.7uF 1206
C28
4.7uF 1206
C29
22uF 0805
C30
22uF 0805
C31
4.7uF 1206
C32
4.7uF 1206
Banana_Jack
J16
J17
J18
+12V
PV+
LOAD+
J6
J7
J8
J15
5001
J9
J10
J11
J12
J13
J14
NO IL&IIN_SENSE
Title
EE113B PV Buck Converter
Size
A
Number
TopLevel.SchDoc
Revision
Date:
3/05/2025
Sheet 1 of 5
File:
C:\Users\..\TopLevel.SchDoc
Drawn By:
Shikai Shen

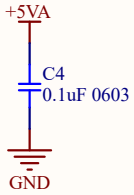


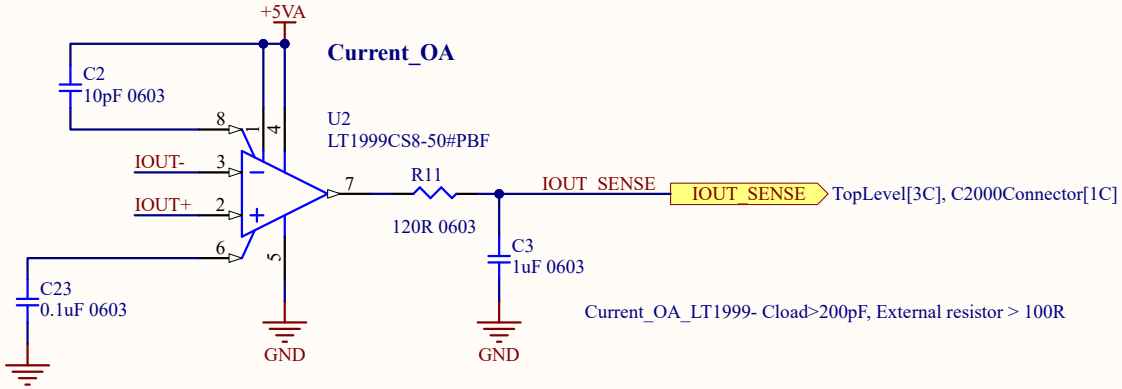
Title	**EE113B PV Buck Converter**	
Size: A	Number: **VoltageSense.SchDoc**	Revision:
Date: 3/05/2025		Sheet2 of 5
File: C:\Users\..\VoltageSense.SchDoc		Drawn By: *Shikai Shen*



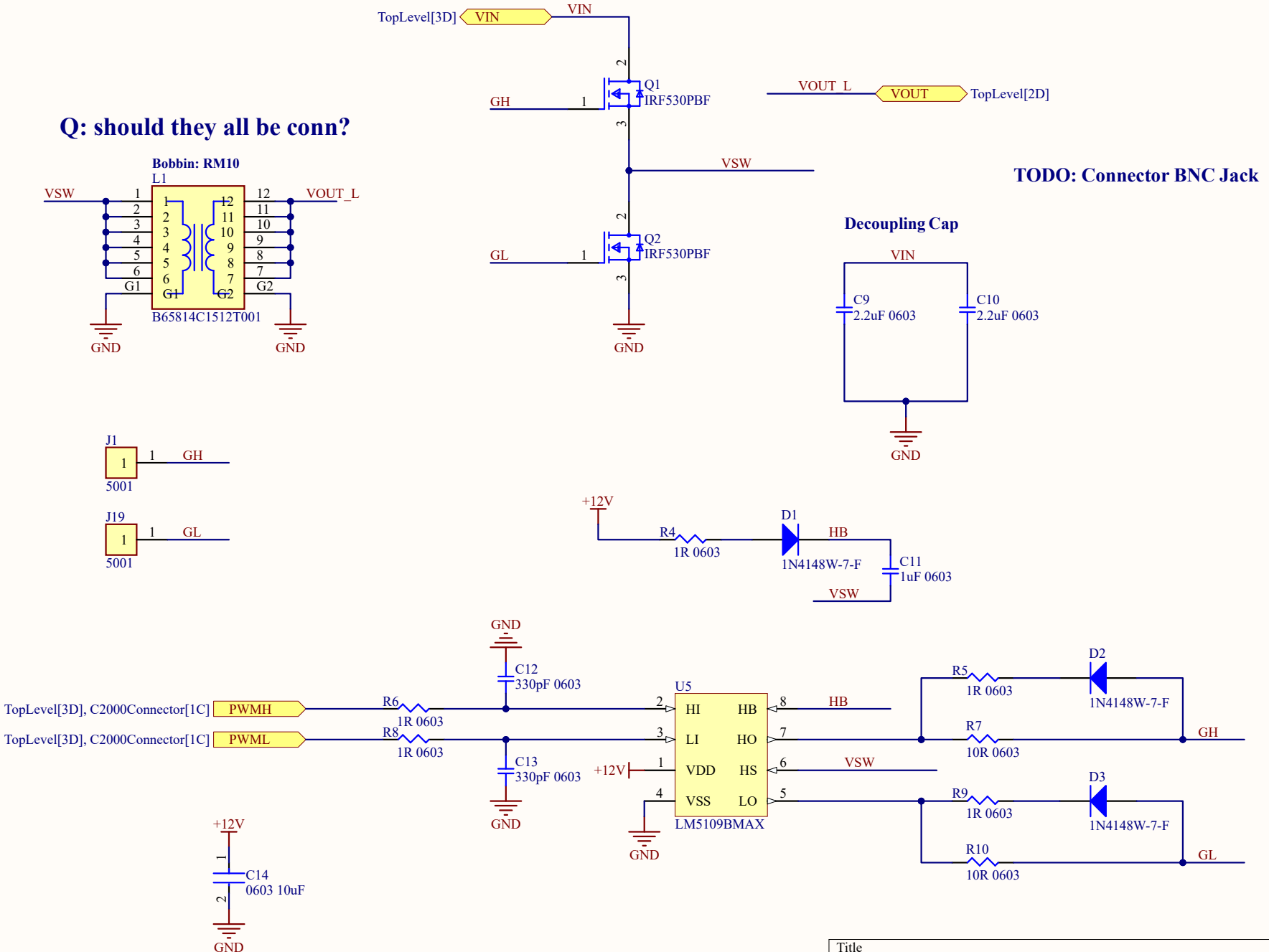






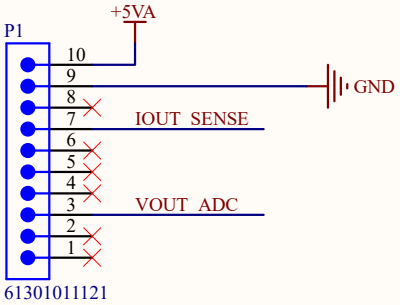


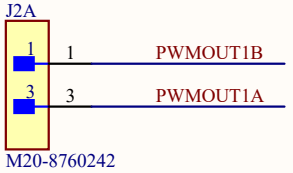
Title: **EE113B PV Buck Converter**		
Size: A	Number: **CurrentSense.SchDoc**	Revision:
Date: 3/05/2025		Sheet3 of 5
File: C:\Users\..\CurrentSense.SchDoc		Drawn By: *Shikai Shen*

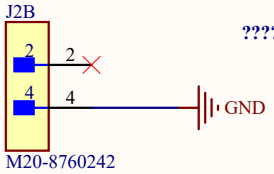


Title	**EE113B PV Buck Converter**	
Size: A	Number: **PowerStage.SchDoc**	Revision:
Date: 3/05/2025		Sheet4 of 5
File: C:\Users\..\PowerStage.SchDoc		Drawn By: *Shikai Shen*

???????what is these CONN







???? ERROR but no CONN in sch

TopLevel[2C], VoltageSense[4B] VOUT_ADC — VOUT_ADC

NO IIN&IL_SENSE

TopLevel[3C], CurrentSense[3C] IOUT_SENSE — IOUT_SENSE

TopLevel[2C], PowerStage[1C] PWMH — PWMOUT1A
TopLevel[2C], PowerStage[1C] PWML — PWMOUT1B

Title	**EE113B PV Buck Converter**		
Size: A	Number: **C2000Connector.SchDoc**		Revision:
Date: 3/05/2025		Sheet 5 of 5	
File: C:\Users\..\C2000Connector.SchDoc		Drawn By: *Shikai Shen*	

Feedback: 9+ hours