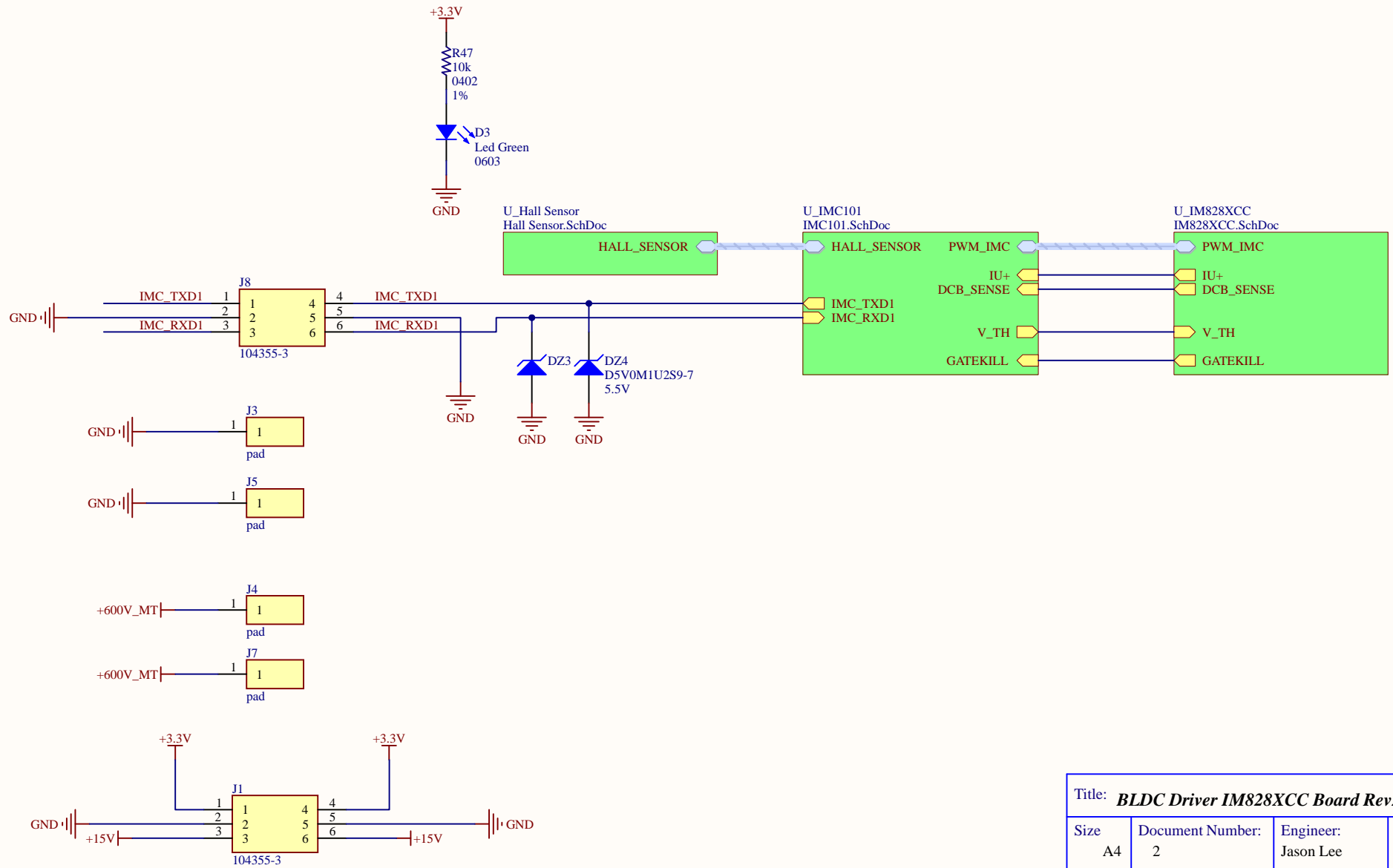


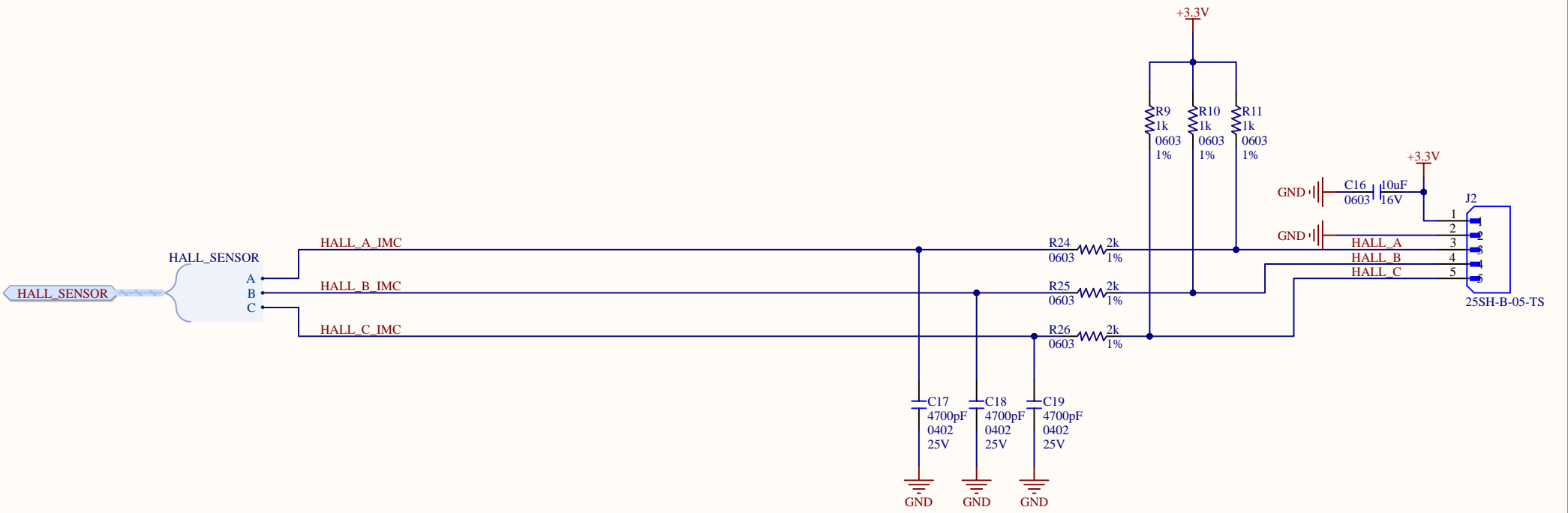
목 록

DriverBoard.....	1
PowerBoard.....	5

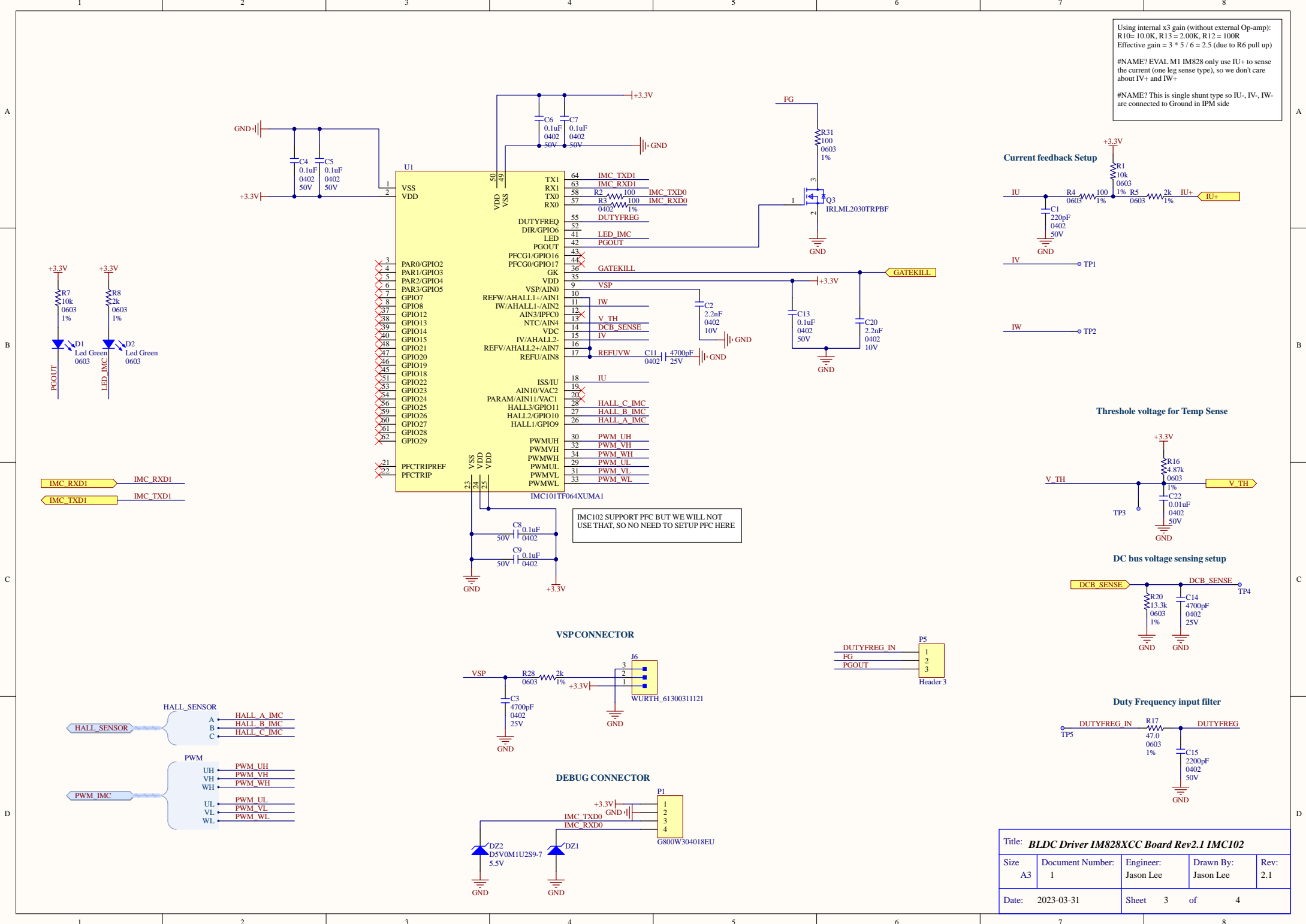


Title: BLDC Driver IM828XCC Board Rev2.1 Top Level				
Size A4	Document Number: 2	Engineer: Jason Lee	Drawn By: Jason Lee	Rev: 2.1
Date:	2023-03-31	Sheet	1 of	4

HALL SENSOR FILTER CIRCUIT



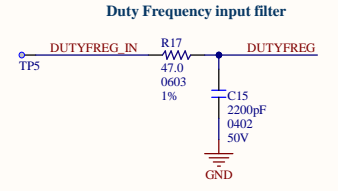
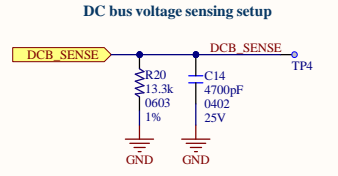
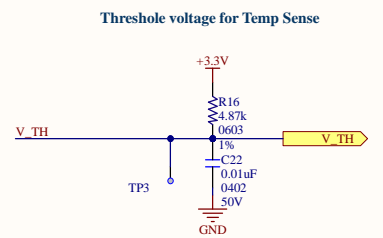
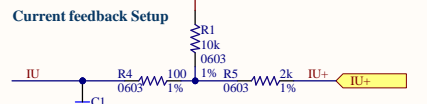
Title: BLDC Driver IM828XCC Board Rev2.1 Hall Sensor				
Size A4	Document Number: 3	Engineer: Jason Lee	Drawn By: Jason Lee	Rev: 2.1
Date:	2023-03-31	Sheet	2 of 4	



Using internal x3 gain (without external Op-amp):
 $R10 = 10.0K, R13 = 2.00K, R12 = 100R$
 Effective gain = $3 * 5 / 6 = 2.5$ (due to R6 pull up)

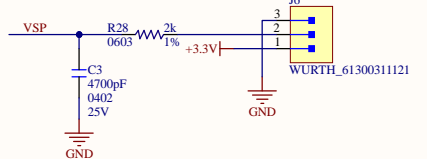
#NAME? EVAL M1 IM828 only use IU+ to sense the current (one leg sense type), so we don't care about IV+ and IW+

#NAME? This is single shunt type so IU-, IV-, IW- are connected to Ground in IPM side

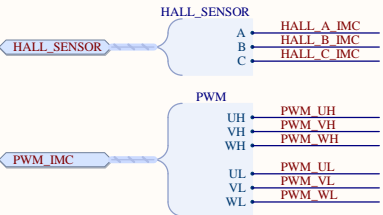
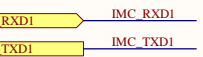
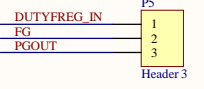
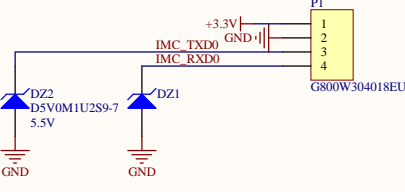


IMC102 SUPPORT PFC BUT WE WILL NOT USE THAT, SO NO NEED TO SETUP PFC HERE

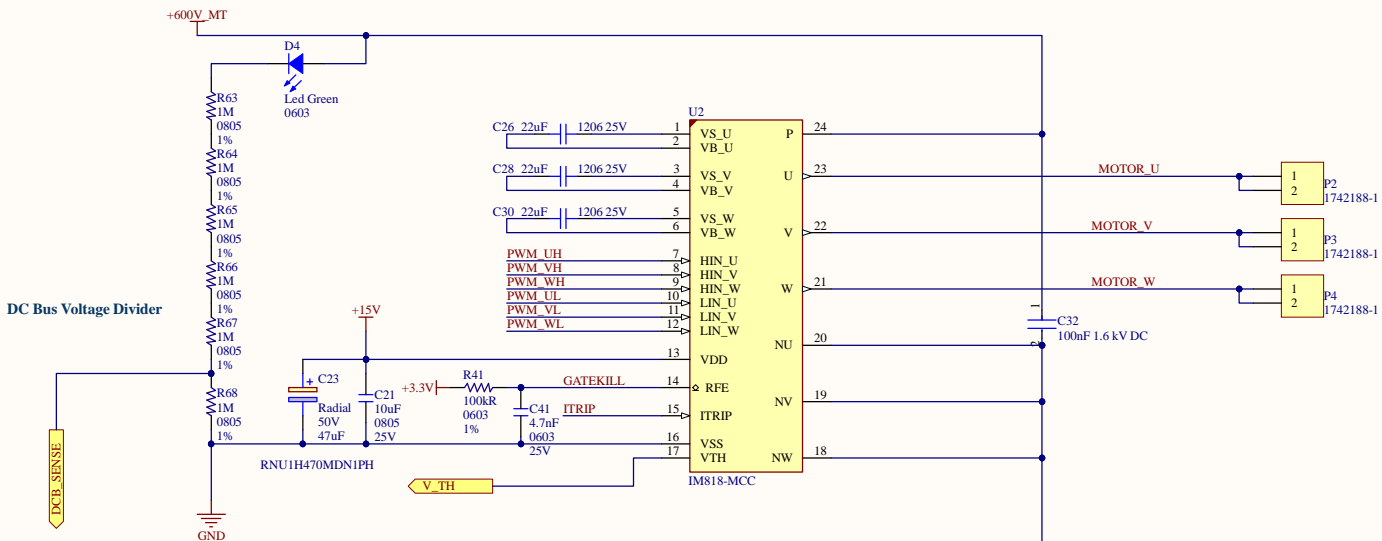
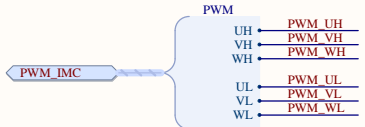
VSPCONNECTOR



DEBUG CONNECTOR

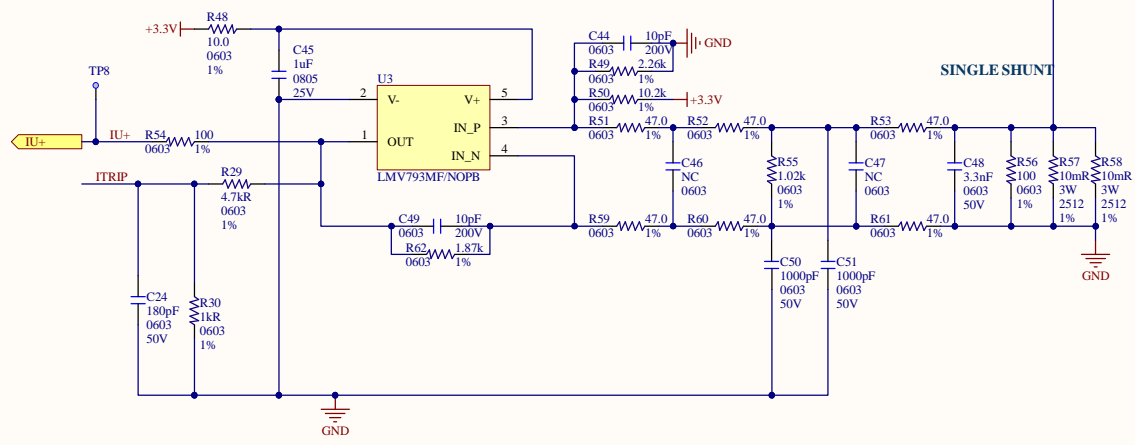


Title: BLDC Driver IM828XCC Board Rev2.1 IMC102				
Size	Document Number:	Engineer:	Drawn By:	Rev:
A3	1	Jason Lee	Jason Lee	2.1
Date:	2023-03-31	Sheet	3 of 4	

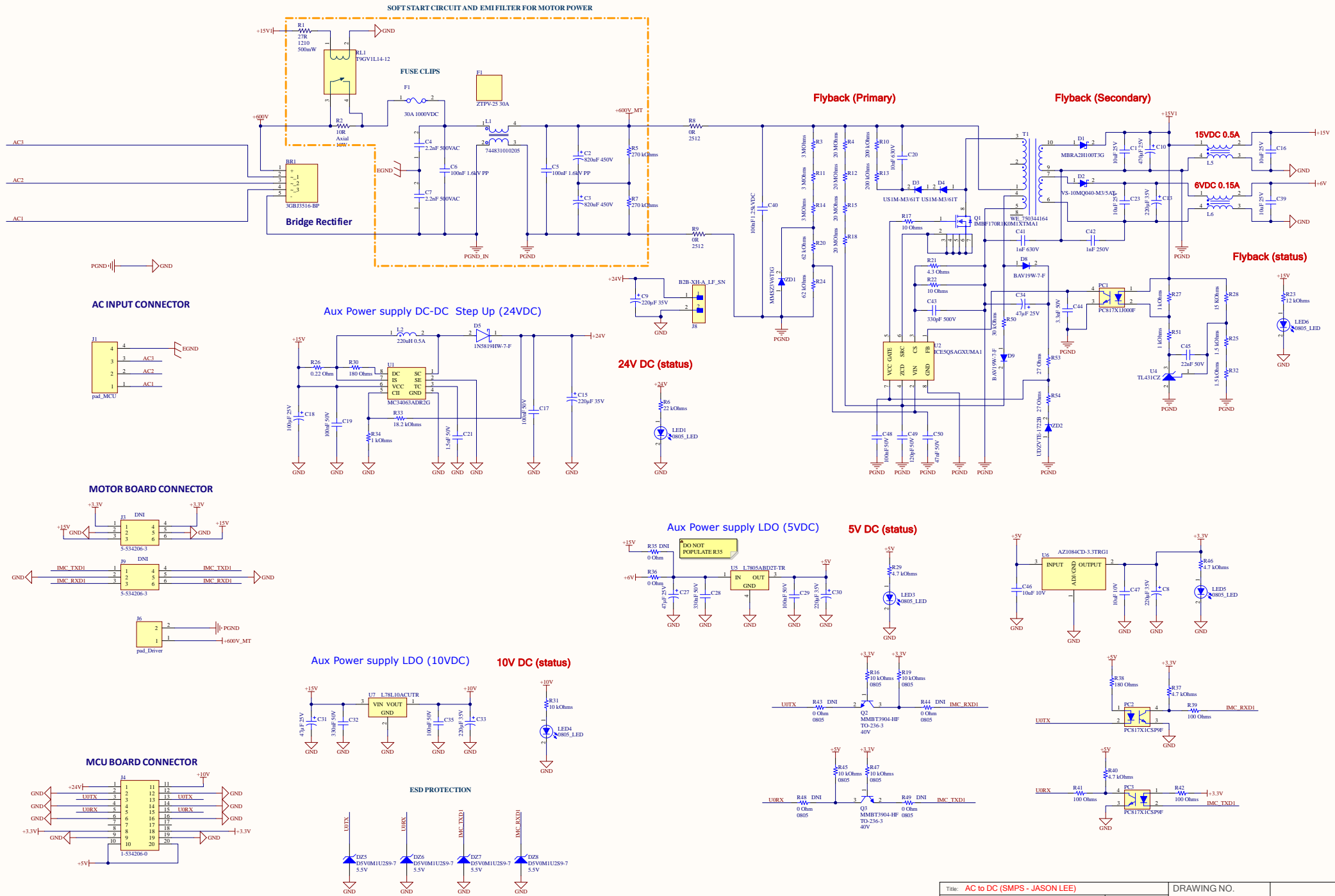


Follow Page 21 User Guide

- Gain = 13.26
- V_shunt1 = 66.3mV/A
- V0 = 0.6V
- T0 = 0.15uS
- V_shunt2 = 54.8mV/A
- V_offset = 1V
- I_OCP = 34A



Title: BLDC Driver IM828XCC Board Rev2.1 SPM2				
Size	Document Number:	Engineer:	Drawn By:	Rev:
A3	4	Jason Lee	Jason Lee	2.1
Date:	2023-03-31		Sheet 4 of 4	



Title: AC to DC (SMPS - JASON LEE)		DRAWING NO.	
Project:	Revision:		
Draw:	Approved:	Sheet: 1 of 1	
File Name: PowerBoard Rev3.1.SchDoc	Size: A2	Modified Date: 2023-03-31	Time: 09:11:59 date: 2023-03-31