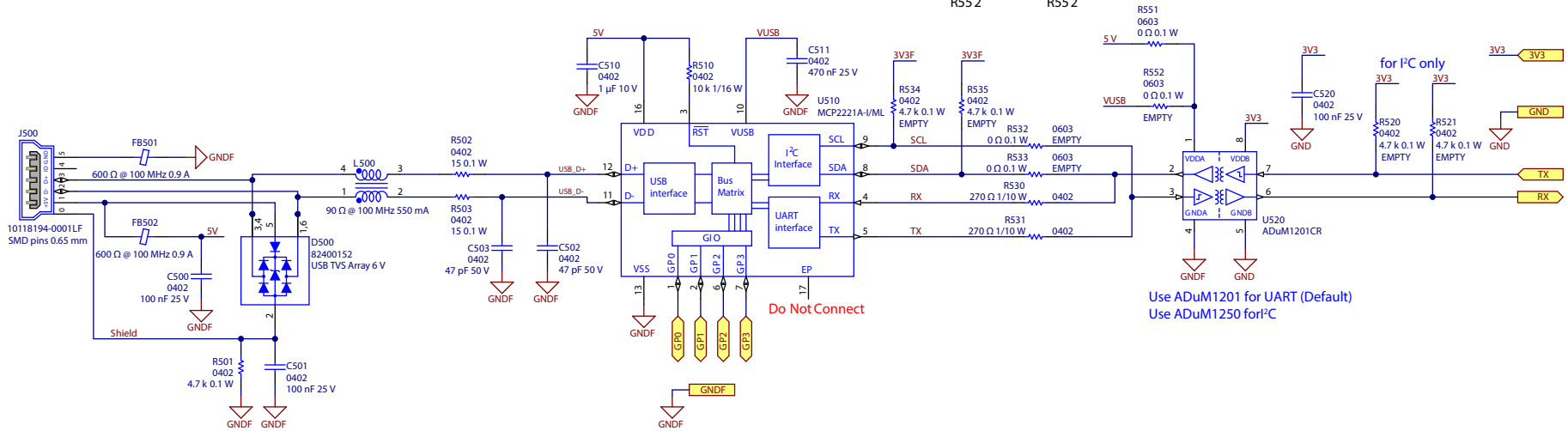


Figure 13: EPC9162 Main schematic

Data type selector

Default set to UART using 5 V

UART 5 V		I ² C 5 V	
Install	DNP	Install	DNP
R530	R532	R532	R530
R531	R533	R533	R531
R551	R534	R534	R551
	R535		R535
	R520		R520
	R521		R521
	R552		R552



Use AduM1201 for UART (Default)
Use AduM1250 for I²C

Figure 14: Isolated Micro USB to serial/IIC interface schematic

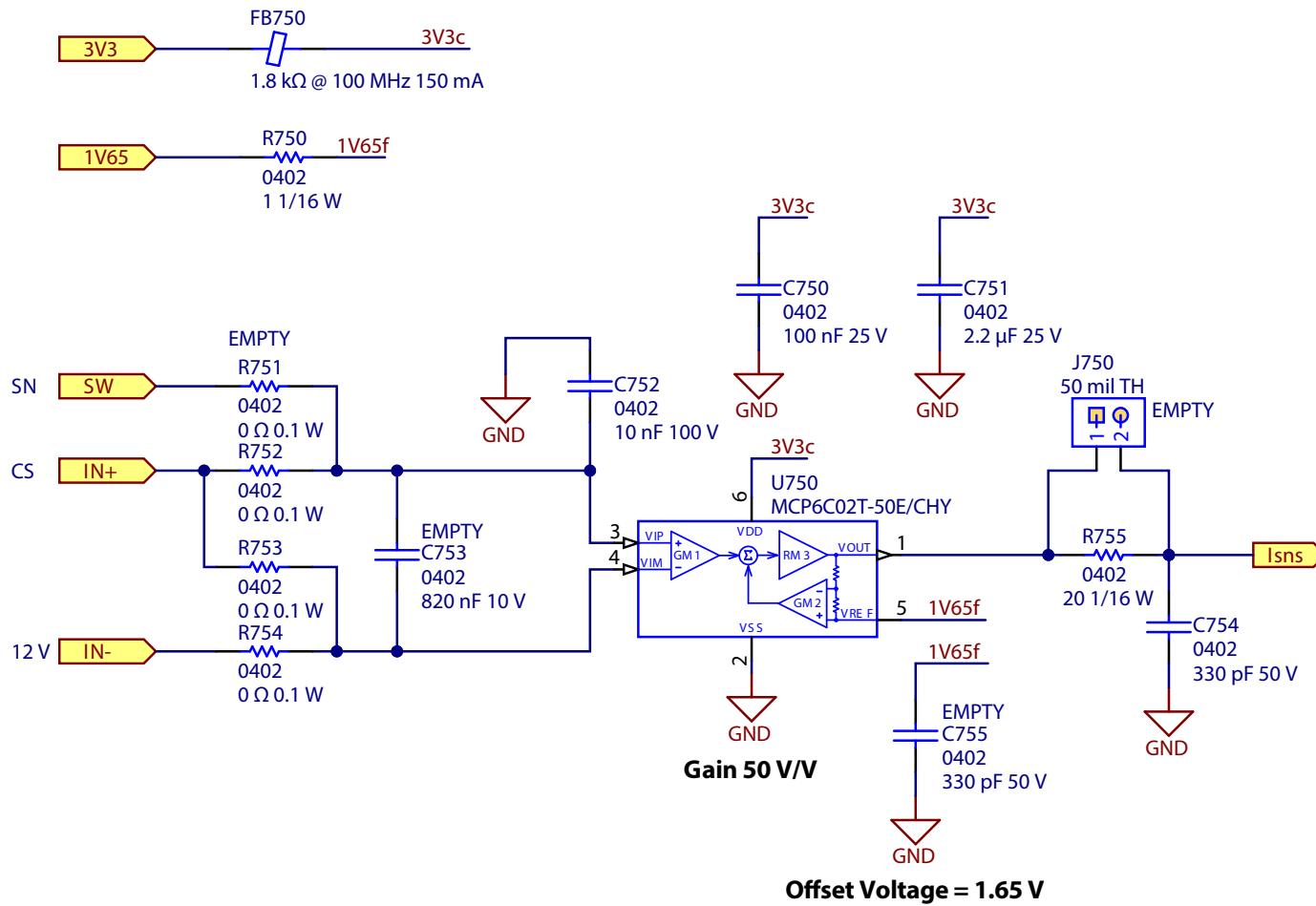


Figure 15: Bi-Directional 65 V Current Sense Amplifier schematic

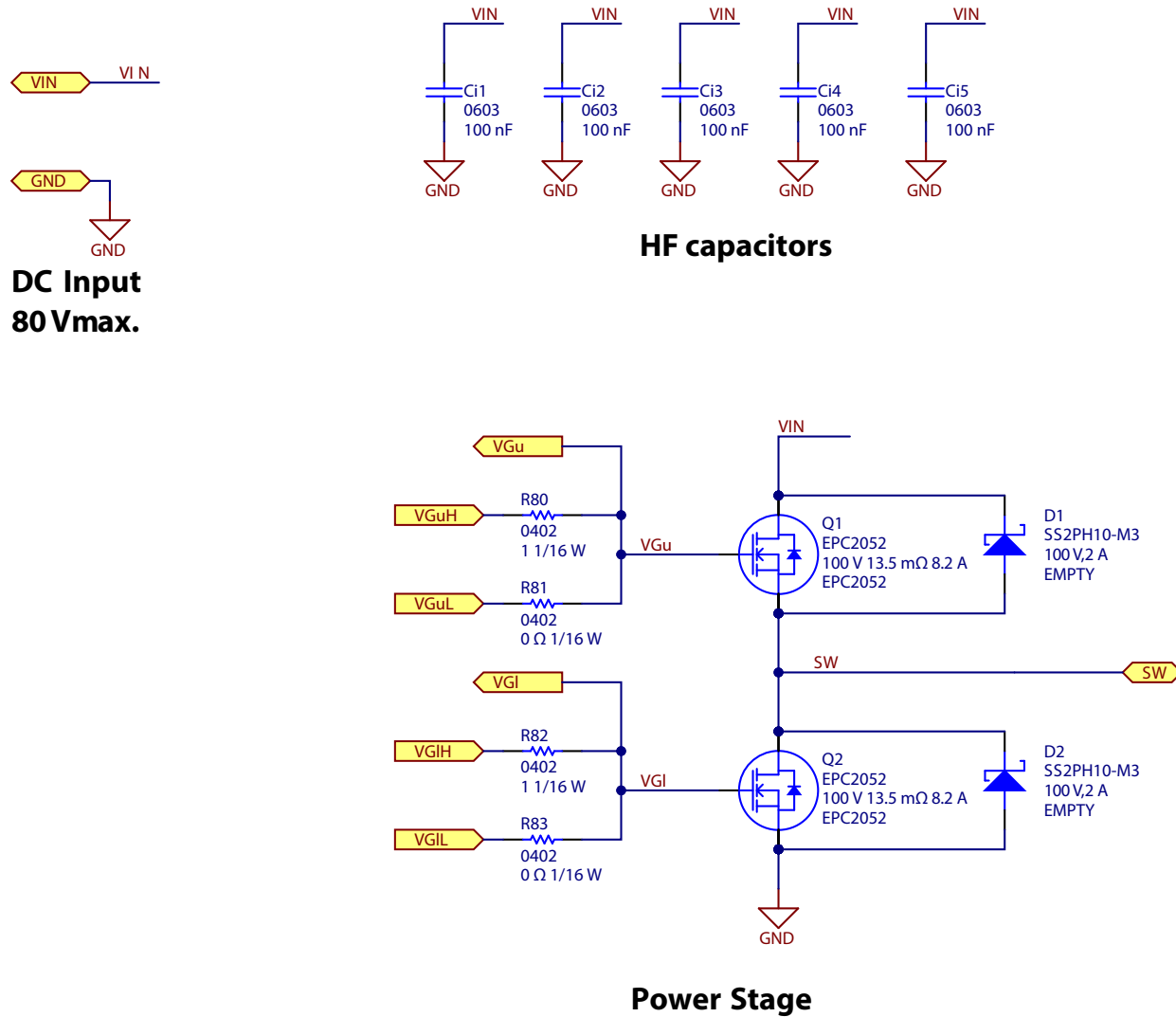
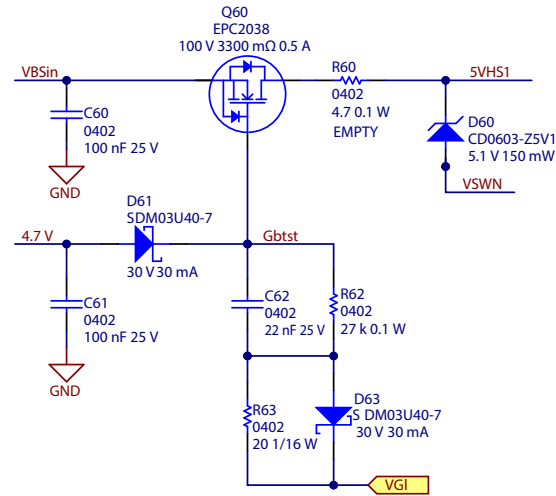
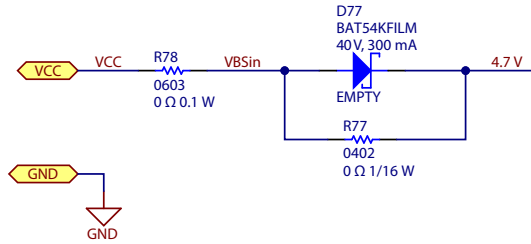
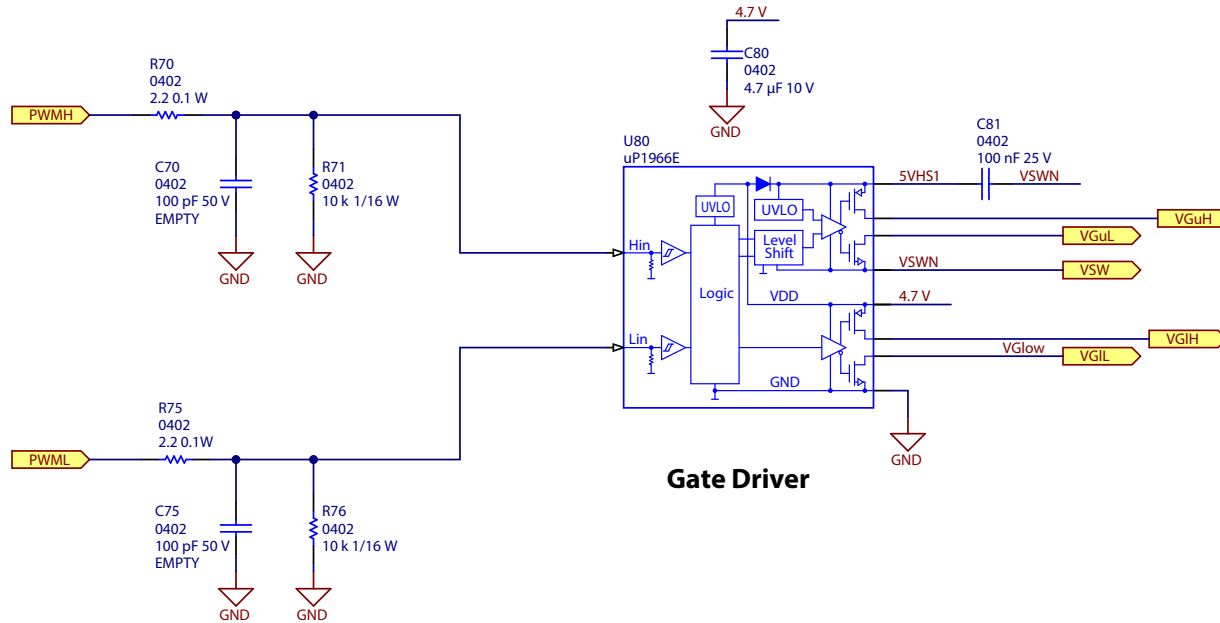


Figure 16: EPC2052 Phase leg schematic

Sync Boot = Install R60 and D77, remove R77
 No Sync Boot = Install R77, remove R60 and D77
 Default = No Sync Boot



Synchronous Bootstrap Power Supply



Gate Driver

Figure 17: . 100 V Gate Driver with Bootstrap schematic

6 Vmin. to 28 Vmax.

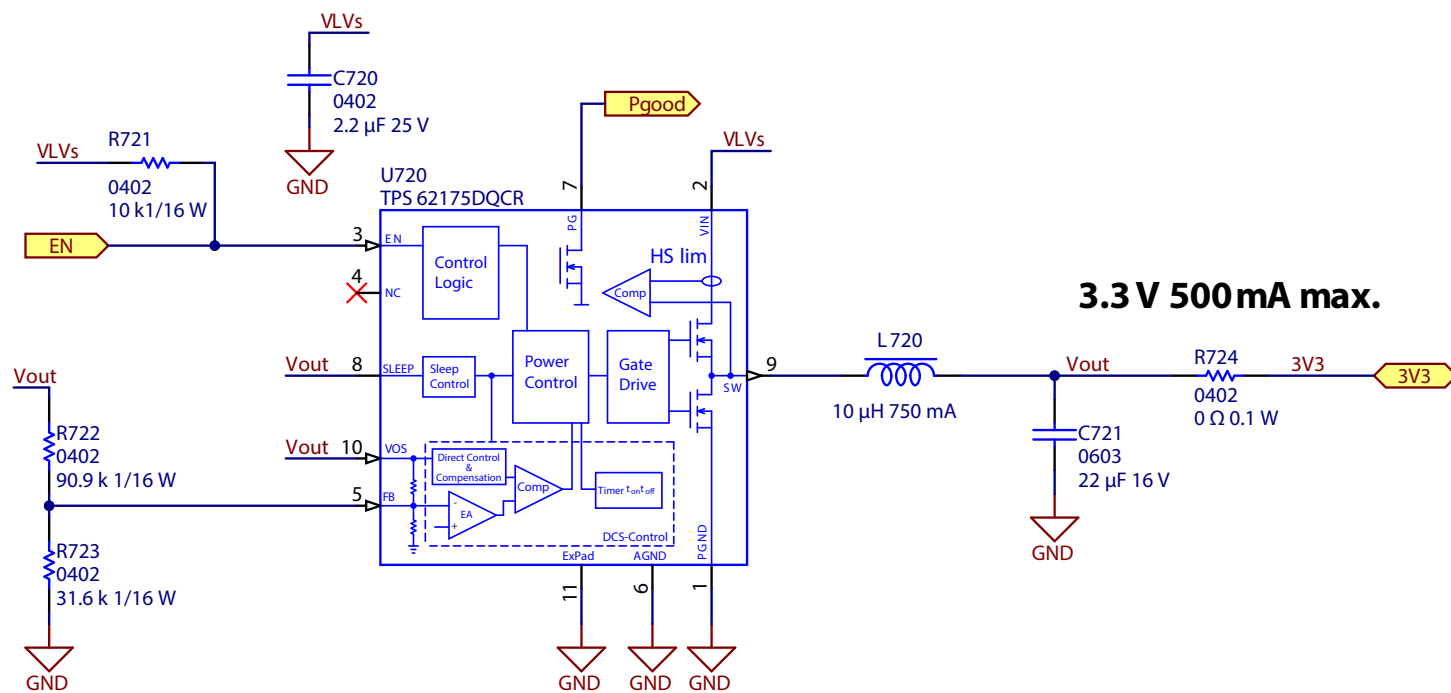
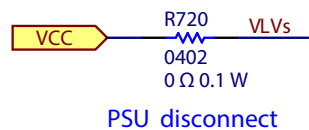


Figure 18: 6 V-28 V to 3.3V Housekeeping Power Supply schematic

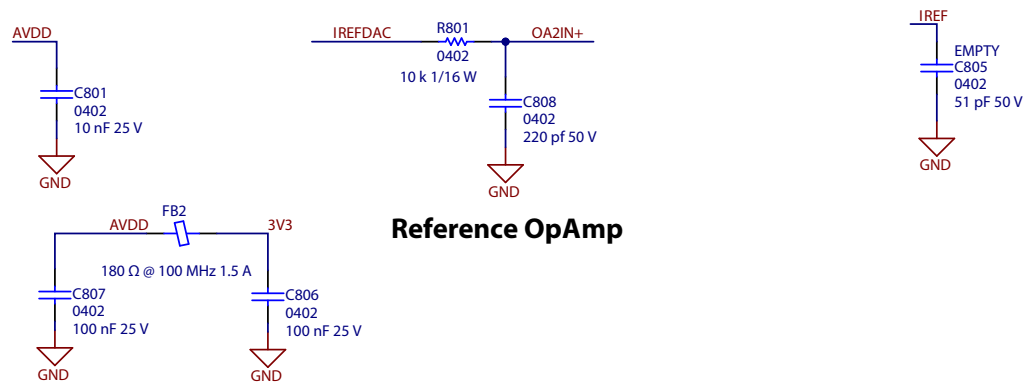
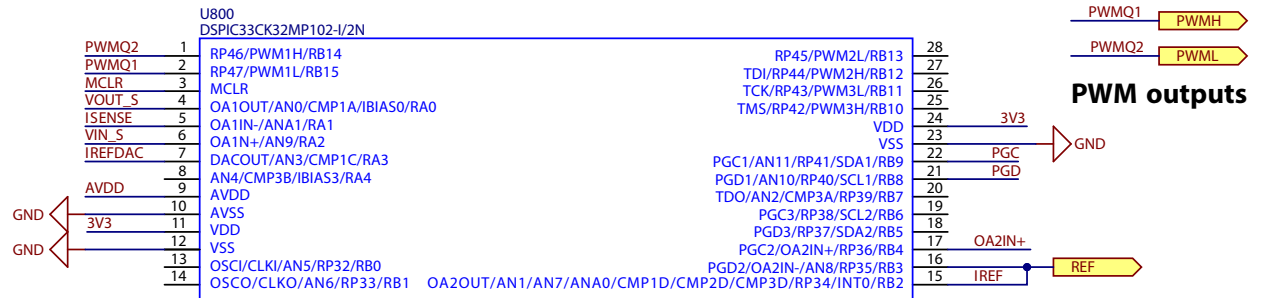
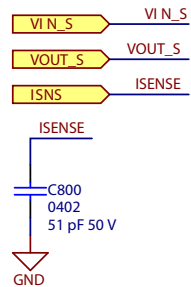
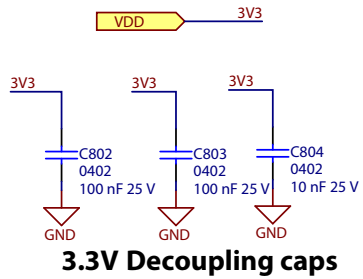
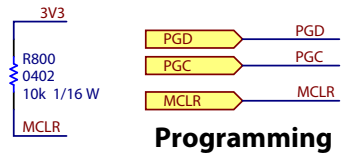
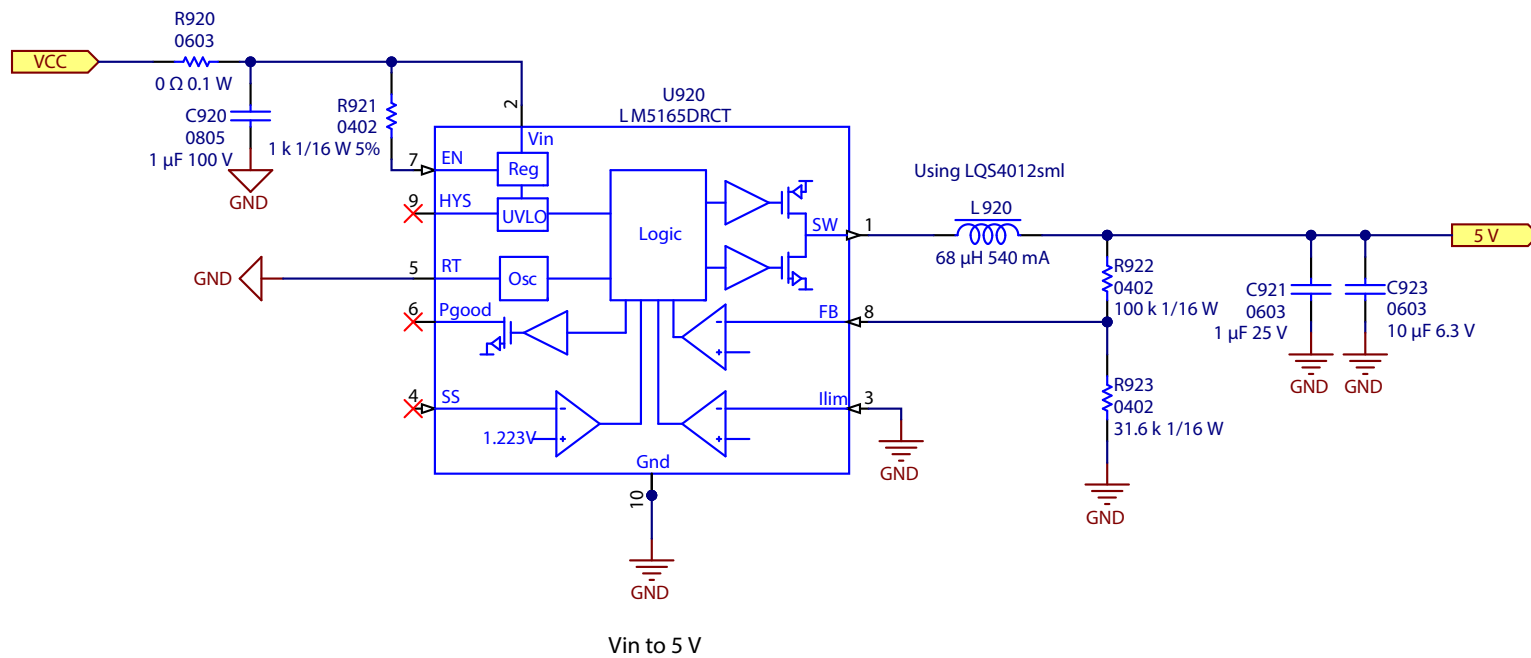


Figure 19: 28-pin 6X6 DsPic controller schematic



Housekeeping power supply

Figure 20: 6V-65V to 5V Housekeeping Power Supply schematic