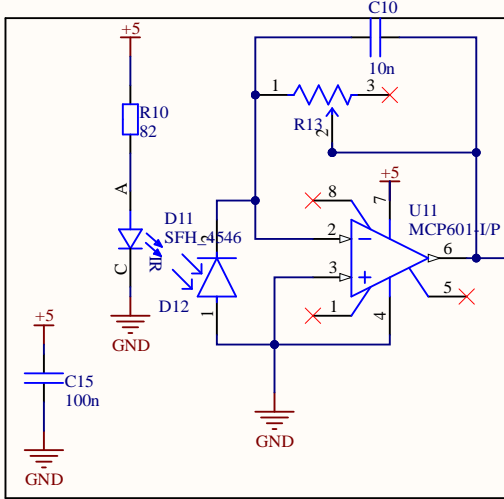
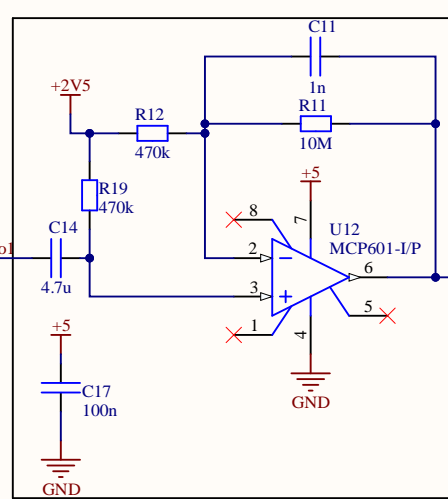


PPG Heartrate Sensor

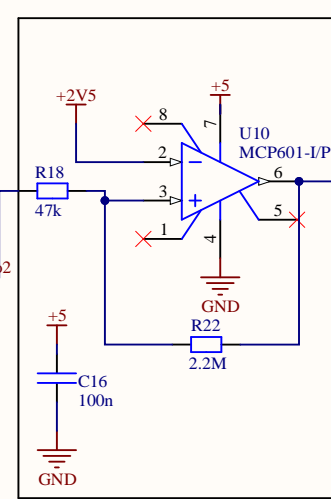
Stage 1: Transresistance Amplifier (w/ LP response)



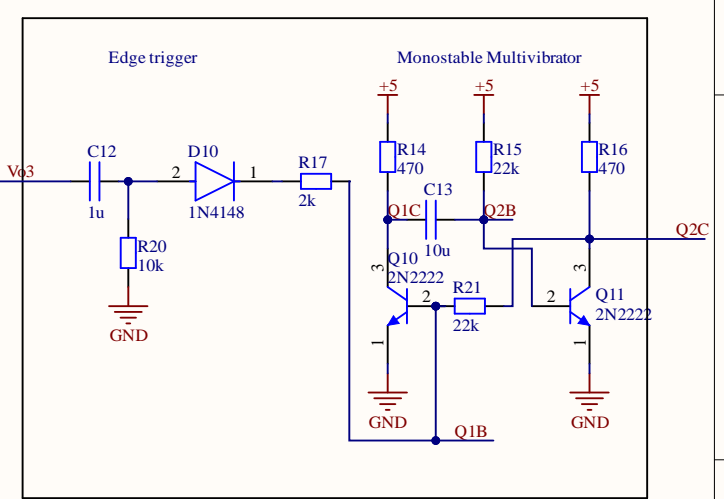
Stage 2: High pass filter and gain



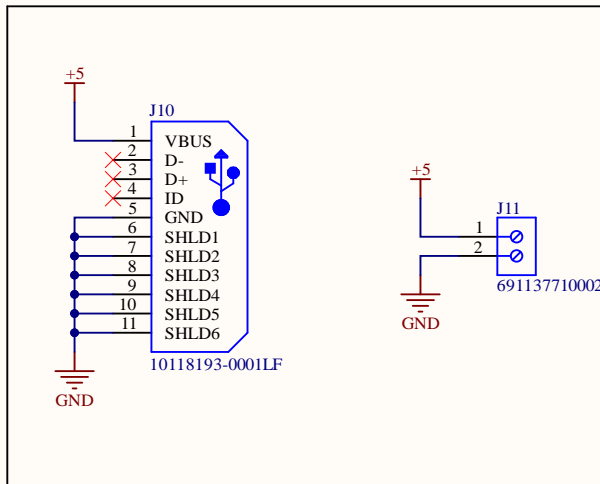
Stage 3: Comparator



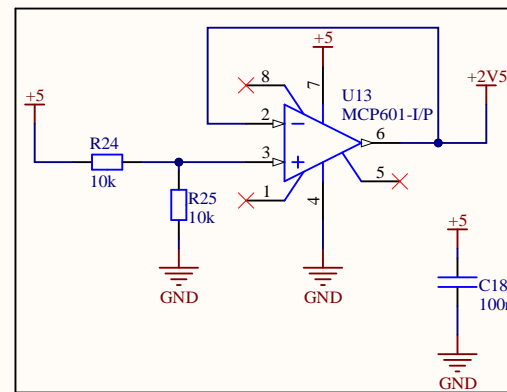
Stage 4: Pulse Generator



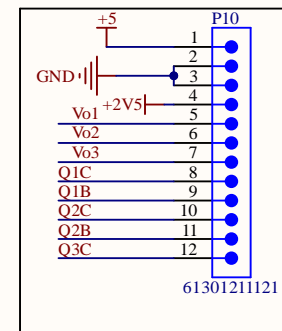
Power: USB and Terminal Block



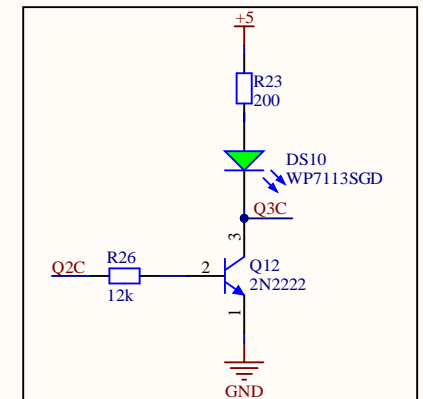
Unity Gain Amplifier - Voltage Reference for 2.5V



Debug Connector



Stage 5: LED Driver



Title		
PPG Heartrate Sensor - Shivam Kataria		
Size	Number	Revision
A4		
Date:	5-21-2026	Sheet of
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