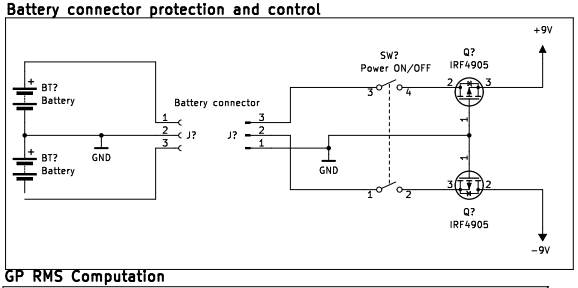
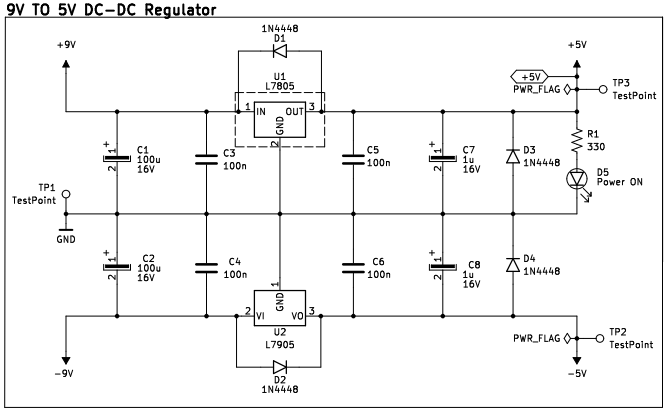
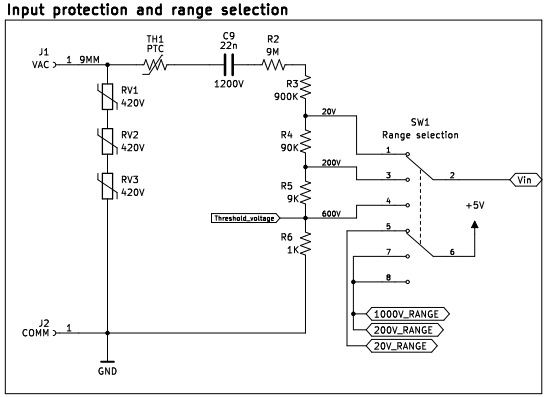
Battery connector protection and control



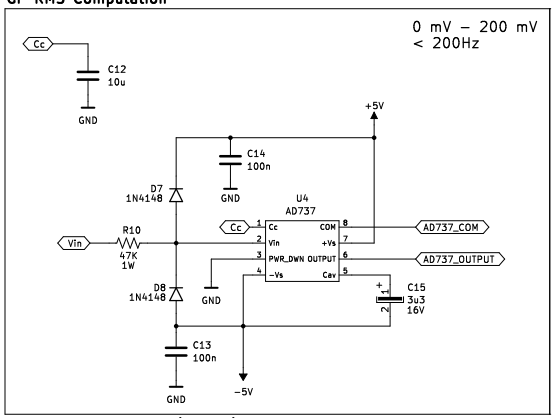
9V TO 5V DC-DC Regulator



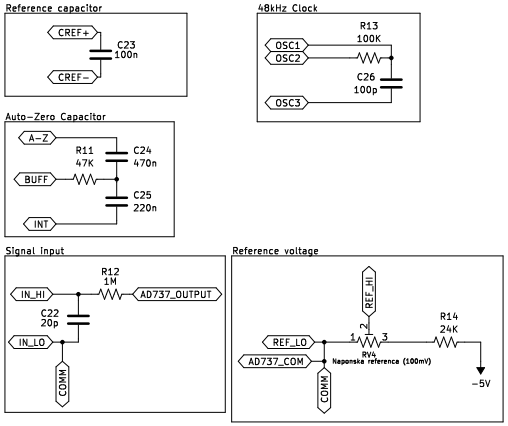
Input protection and range selection



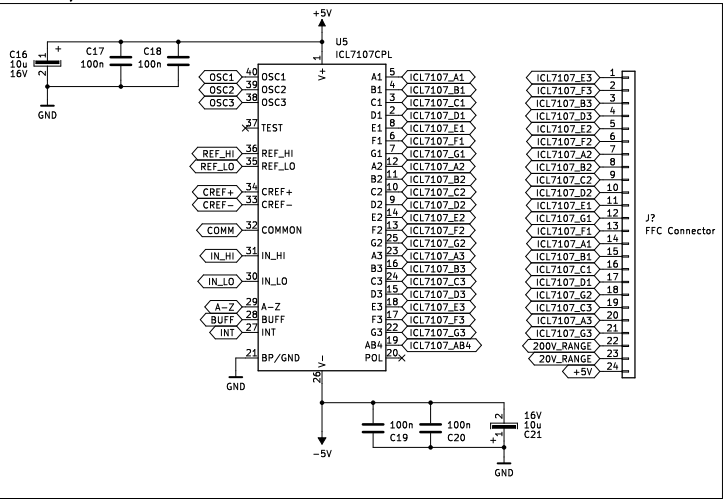
GP RMS Computation



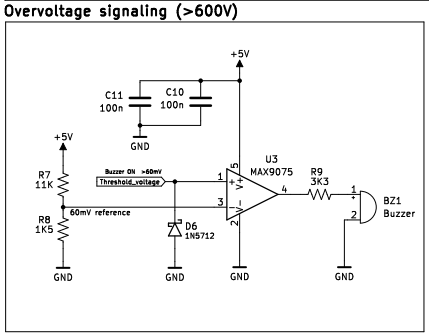
Component configuration for 200mV full-scale



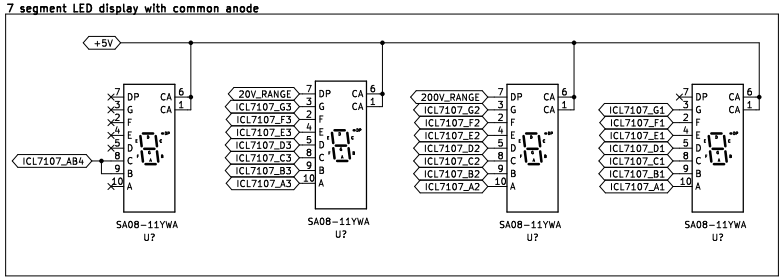
ICL7107 ADC/LED driver & FFC connector



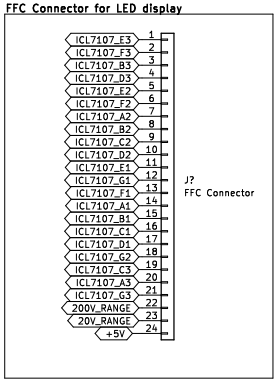
Overvoltage signaling (>600V)



7 segment LED display with common anode



FFC Connector for LED display

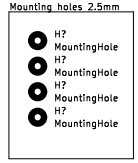


Project has seperate 3 PCBs:

1. Battery PCB for battery connectors
2. Main PCB for input and conversions
3. LED disaply PCB, connected to the main PCB via FFC connector

IC name	Consumption
AD737	210 uA
LED display	720 mA
Power LED	15 mA
Total power consumption	765 mA

Mounting holes 2.5mm



Voltmeter range up to 1000 V

Srđan Milkić

Sheet: /
File: CV.kicad_sch

Title: True RMS Voltmeter

Size: A3	Date: 2024-01-15	**Rev: 0.5**
KiCad E.D.A. kicad 7.0.10		Id: 1/1