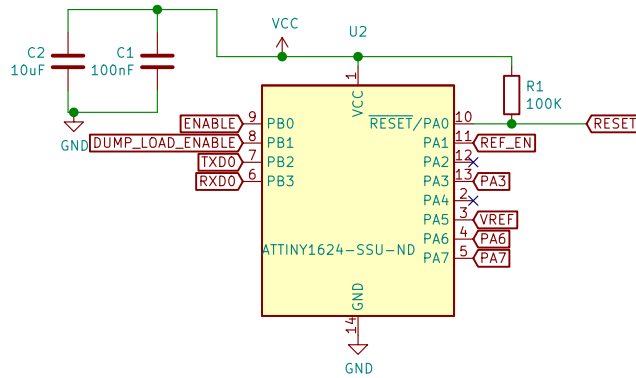


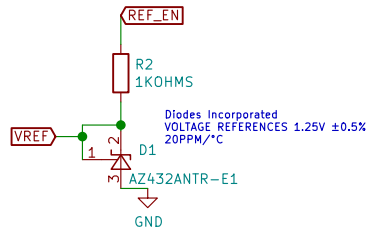
## DIYBMS v4 CELL MONITORING MODULE

VERSION 4.50 – NOTE CHANGE TO ATTINY1624 MICRO CONTROLLER

FOR LITHIUM VOLTAGE RANGES (18650 etc.) 2.0V – 4.2V



Change pin for Reference EN – its 2nd TX serial port so useful for DEBUG?

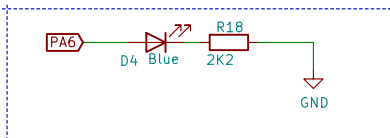
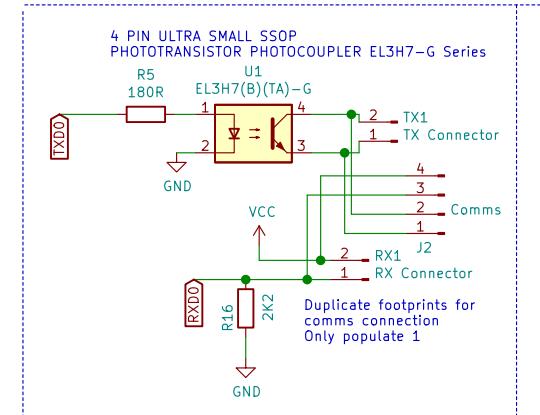
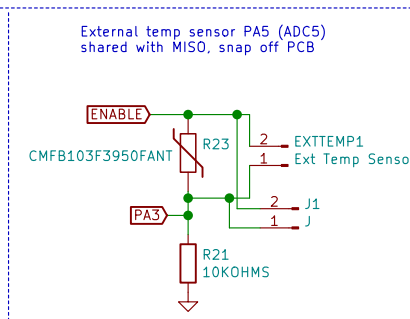
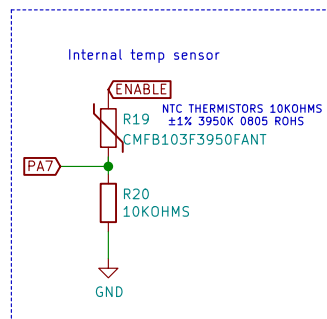
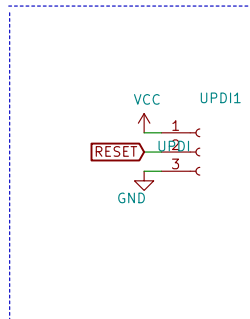
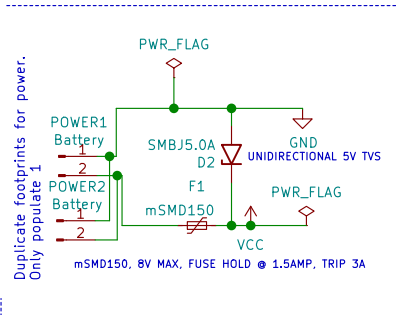
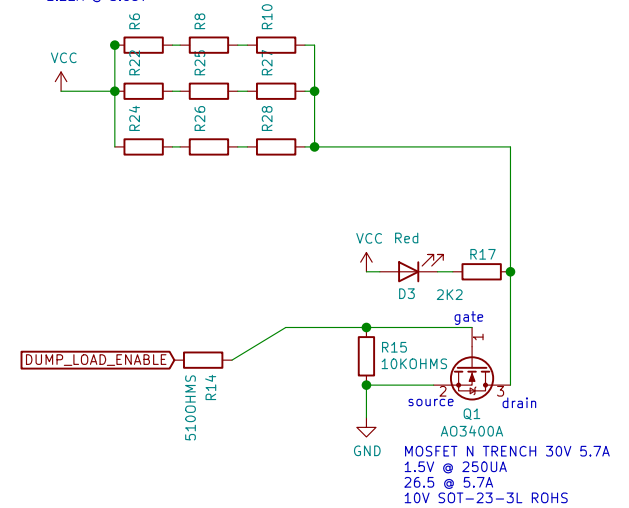


CHIP RESISTOR – SURFACE MOUNT 30HMS ±5% 3/4W 2010  
3 in series with 3 in parallel gives 30hm equivalent resistance

9 resistors provide  $9 \times 0.75W = 6.75W$  of power dissipation.

Balance current (at 30hm):

1.4A @ 4.2V  
1.22A @ 3.65V



Stuart Pittaway

Sheet: /

File: ModuleV450.sch

**Title: DIYBMS cell monitoring module**

Size: A4 Date: 2021-01-31

KiCad E.D.A. eeschema 5.1.9+dfsg1-1+deb11u1

Rev: 4.5

Id: 1/1