Sheet5DEB9B6E

File: diyBMSv4-Leaf_pos.kicad_sch

Sheet5DEB9BAA

File: diyBMSv4-Leaf_neg.kicad_sch

Power and Comm

File: file5DF129FA.kicad_sch

Joho Technology Inc

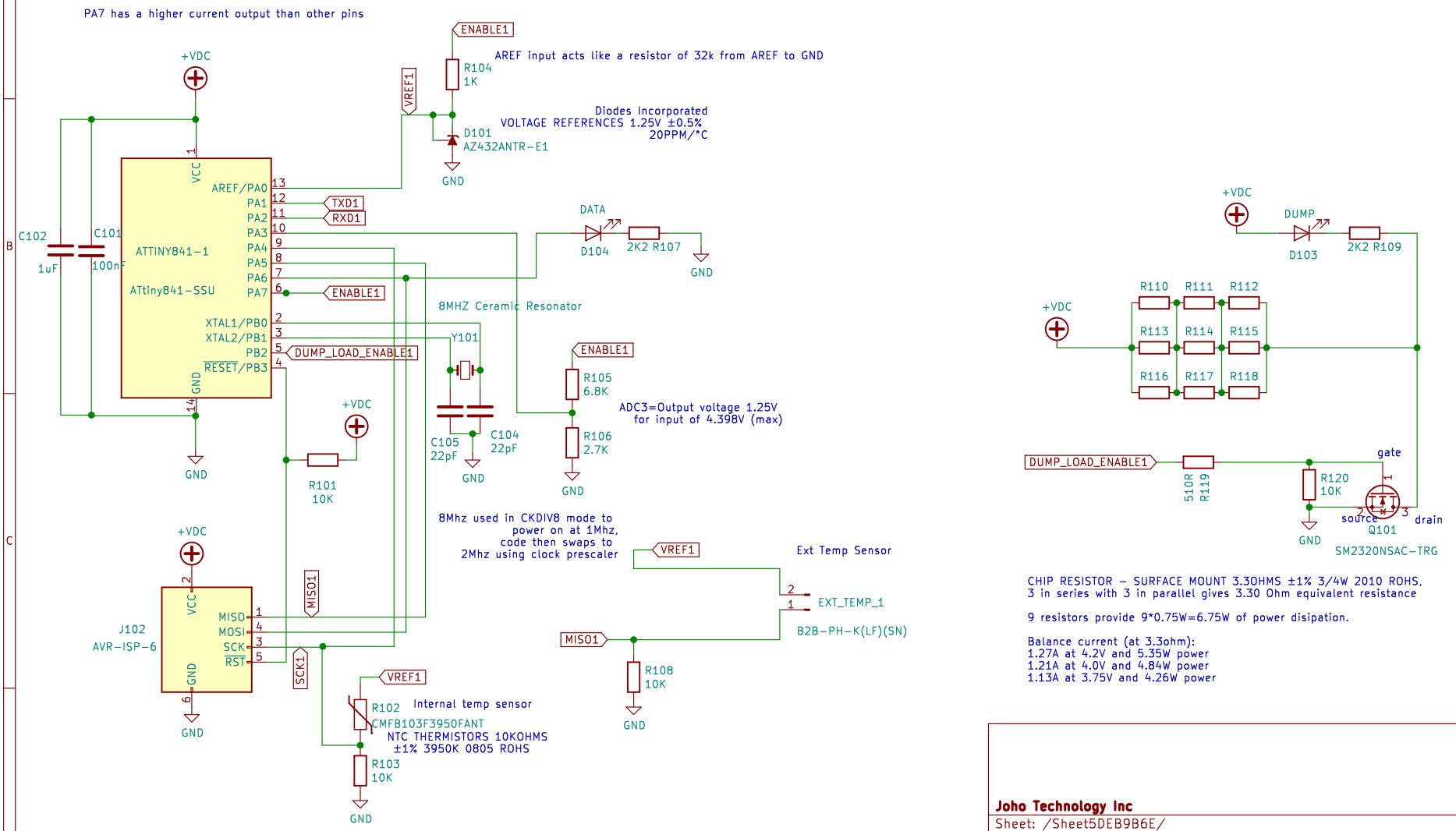
Sheet: /
File: diyBMS-Leaf.kicad_sch

Title: diyBMSv4 - LEAF

Size: A4	Date: 2021-03-10	**Rev: 2.01**
KiCad E.D.A. kicad (5.99.0-8941-ge2f8b1a4b1)		Id: 1/4

DIYBMS v4 CELL MONITORING MODULE for the +ve Leaf terminal

VERSION 4.40



CHIP RESISTOR - SURFACE MOUNT 3.3OHMS ±1% 3/4W 2010 ROHS,
3 in series with 3 in parallel gives 3.30 Ohm equivalent resistance

9 resistors provide 9*0.75W=6.75W of power disipation.

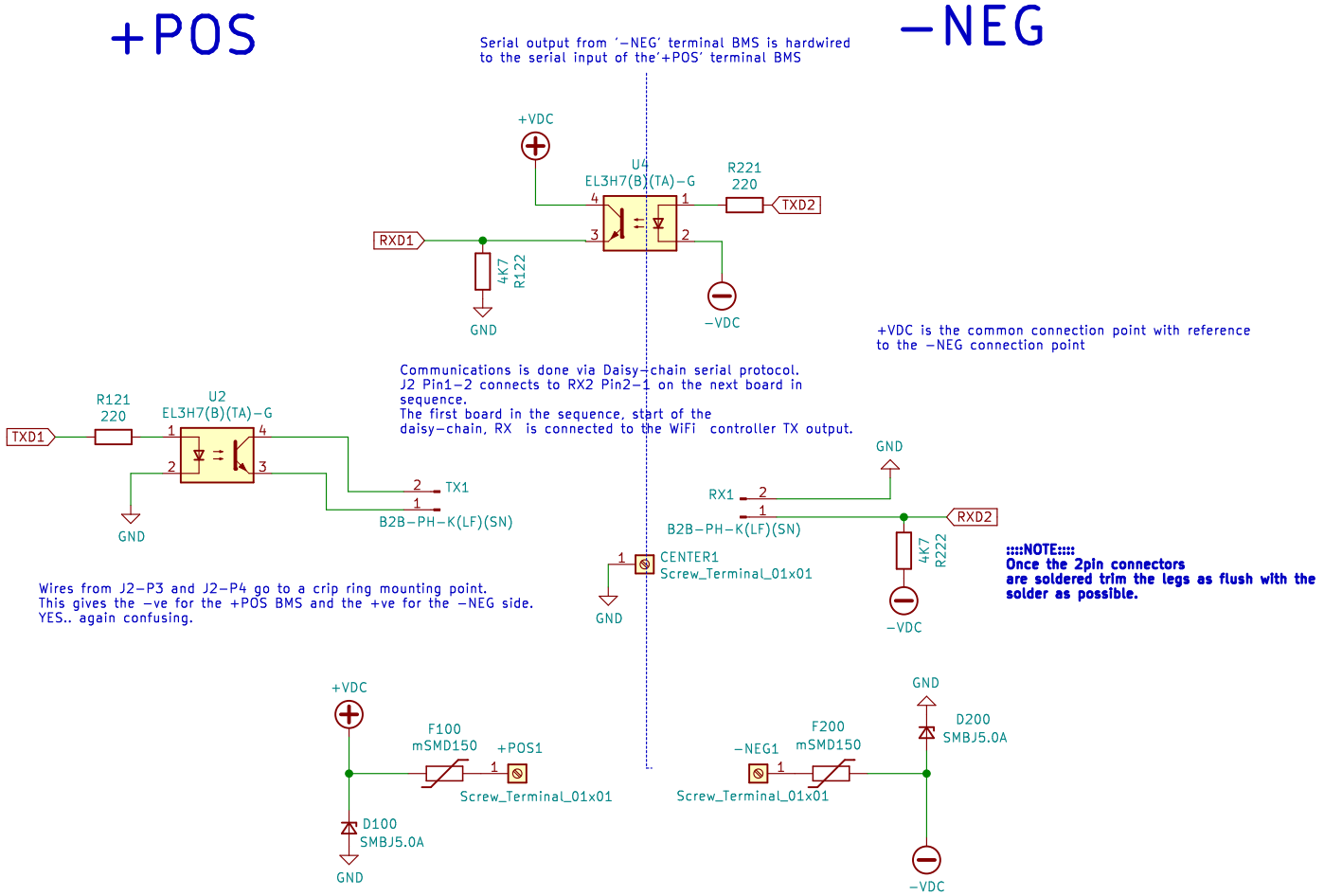
Balance current (at 3.3ohm):
1.27A at 4.2V and 5.35W power
1.21A at 4.0V and 4.84W power
1.13A at 3.75V and 4.26W power

Joho Technology Inc

Sheet: /Sheet5DEB9B6E/
File: diyBMSv4-Leaf_pos.kicad_sch

Title: diyBMSv4 - LEAF

Size: A4	Date: 2021-03-10	**Rev: 2.01**
KiCad E.D.A. kicad (5.99.0-8941-ge2f8b1a4b1)		Id: 2/4



The Leaf cell is 2s2P with 3 connection terminals, +ve common −ve
Voltage on one pack is measured between the −ve terminal and common. The voltage on the second pack measures between the +ve terminal and common.

Each BMS is has its own supply:
+ve terminal − common (common is negative)
−ve terminal − common (common is positive)

Joho Technology Inc

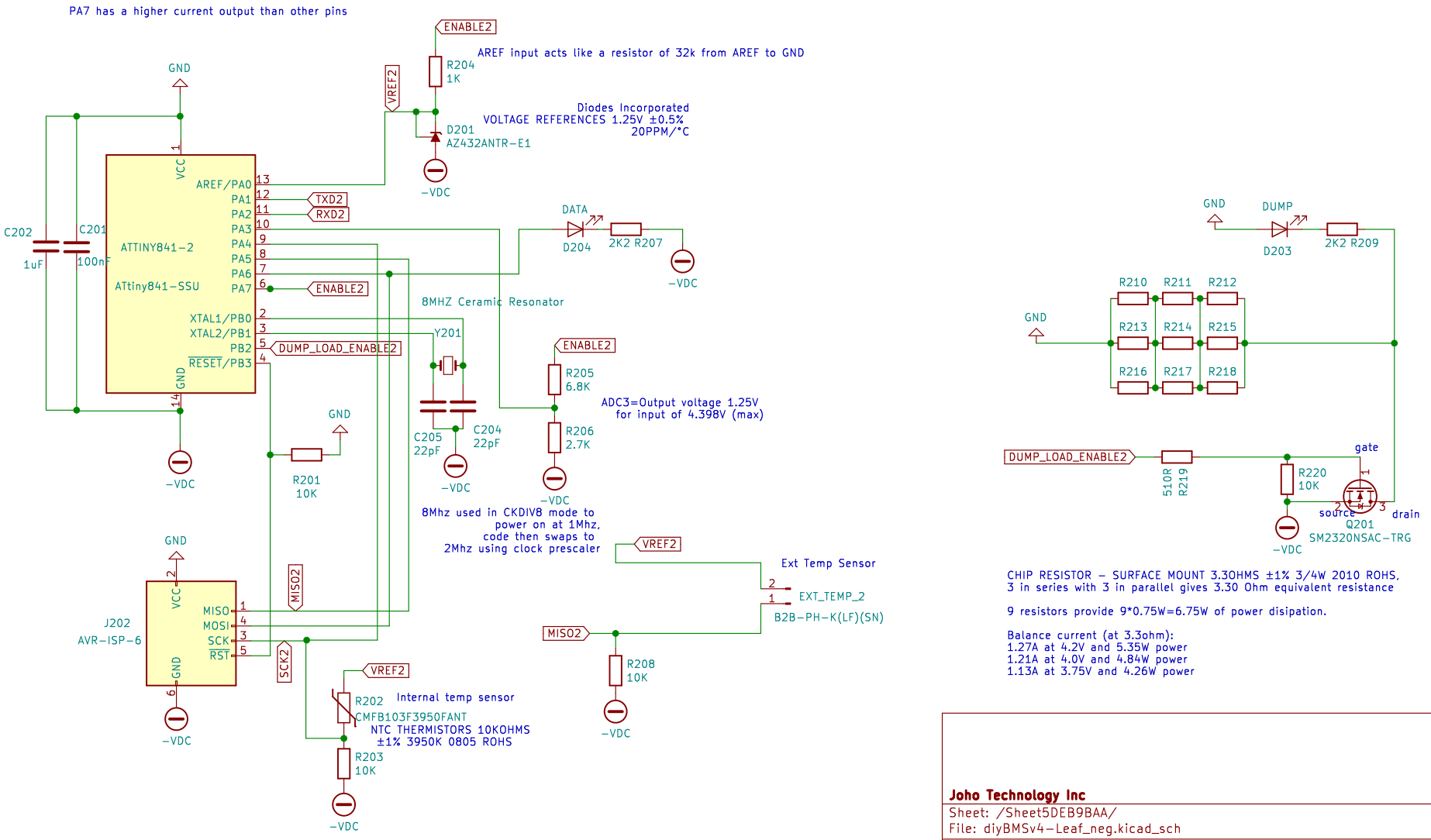
Sheet: /Power and Comm/
File: file5DF129FA.kicad_sch

Title: diyBMSv4 − LEAF

Size: A4	Date: 2021−03−10	**Rev: 2.01**
KiCad E.D.A. kicad (5.99.0−8941−ge2f8b1a4b1)		Id: 3/4

DIYBMS v4 CELL MONITORING MODULE for the +ve Leaf terminal

VERSION 4.40



Joho Technology Inc		
Sheet: /Sheet5DEB9BAA/		
File: diyBMSv4-Leaf_neg.kicad_sch		
Title: diyBMSv4 - LEAF		
Size: A4	Date: 2021-03-10	**Rev: 2.01**
KiCad E.D.A. kicad (5.99.0-8941-ge2f8b1a4b1)		Id: 4/4