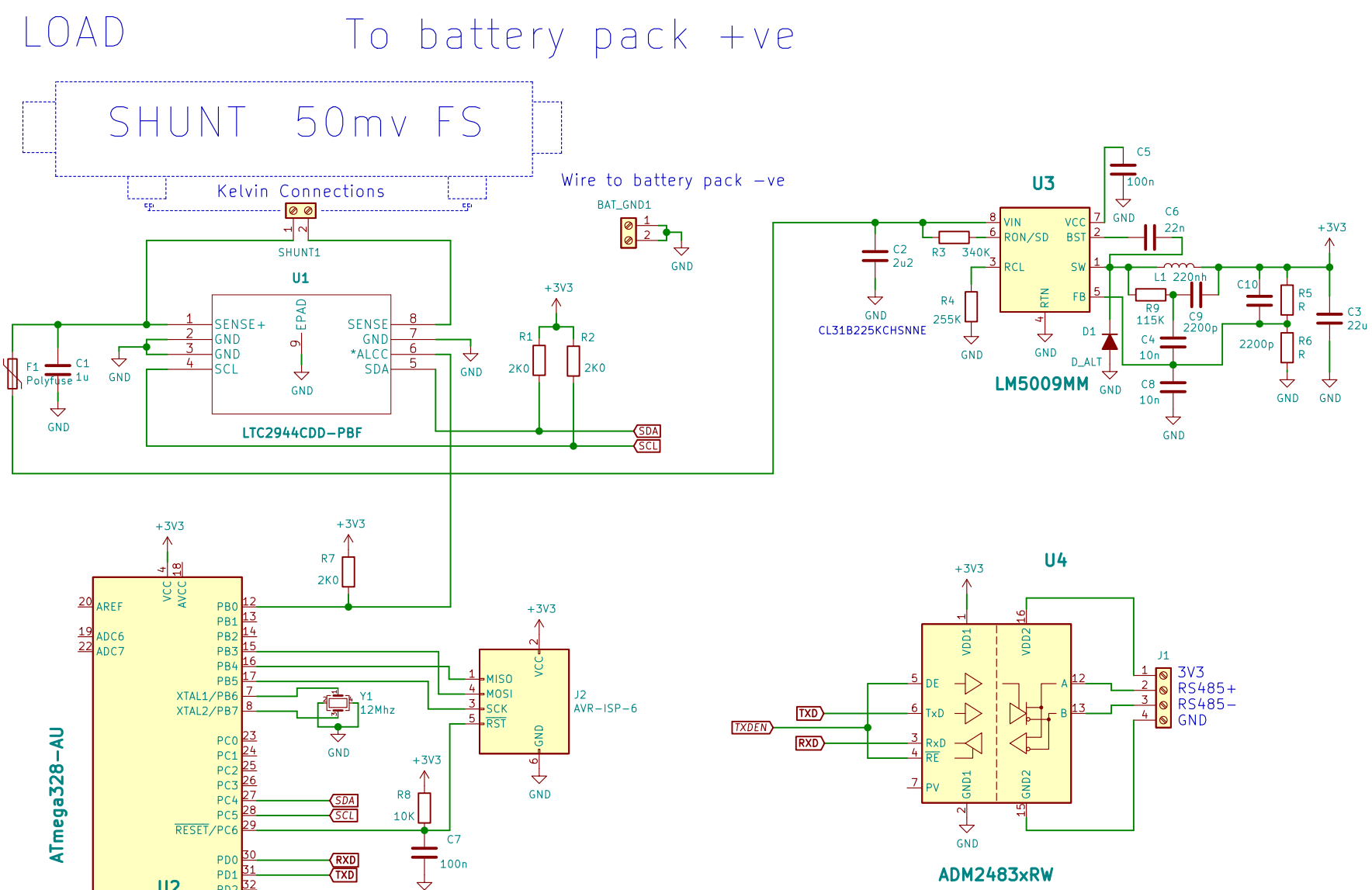
To LOAD
To battery pack +ve
SHUNT 50mv FS
Kelvin Connections
Wire to battery pack -ve
SHUNT1
BAT_GND1
U1
LTC2944CDD-PBF
SENSE+
GND
SCL
SENSE
*ALCC
SDA
EPAD
F1
Polyfuse
C1
1u
R1
R2
2K0
U3
LM5009MM
VIN
RON/SD
RCL
VCC
BST
SW
RTN
FB
D_ALT
CL31B225KCHSNNE
C2
2u2
R3
340K
R4
255K
C4
10n
C5
100n
C6
22n
L1
220nh
R9
115K
C9
2200p
C10
2200p
R5
R
R6
R
C3
22u
C8
10n
D1
U2
ATmega328-AU
AREF
ADC6
ADC7
VCC
AVCC
PB0
PB1
PB2
PB3
PB4
PB5
XTAL1/PB6
XTAL2/PB7
PC0
PC1
PC2
PC3
PC4
PC5
RESET/PC6
PD0
PD1
PD2
PD3
PD4
PD5
PD6
PD7
Y1
12Mhz
R7
R8
10K
C7
100n
J2
AVR-ISP-6
MISO
MOSI
SCK
RST
U4
ADM2483xRW
VDD1
VDD2
DE
TxD
RxD
RE
PV
GND1
GND2
A
B
TXDEN
TXD
RXD
J1
3V3
RS485+
RS485-
GND
Binary Audio Designs George Boudreau
Sheet: /
File: diyBMS-CurrentShunt LT2944 RS485.sch
Title: diyBMS Isolated Current Shunt
Size: USLetter
Date: 2020-07-06
Rev: v0.30
KiCad E.D.A. kicad 5.1.6-c6e7f7d86ubuntu18.04.1
Id: 1/1