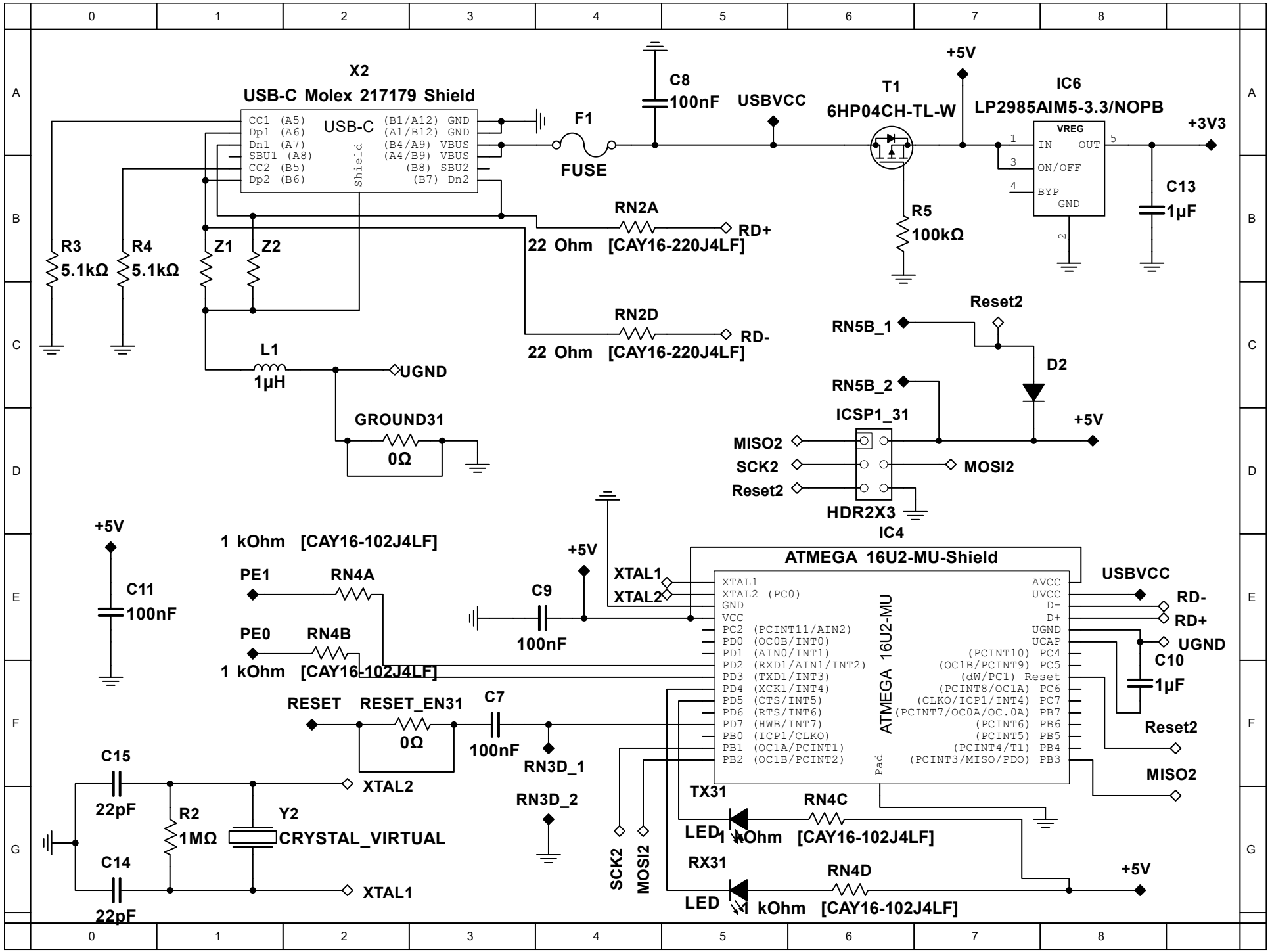
X2
USB-C Molex 217179 Shield
CC1 (A5)
Dp1 (A6)
Dn1 (A7)
SBU1 (A8)
CC2 (B5)
Dp2 (B6)
USB-C
Shield
(B1/A12) GND
(A1/B12) GND
(B4/A9) VBUS
(A4/B9) VBUS
(B8) SBU2
(B7) Dn2
F1
FUSE
C8
100nF
USBVCC
T1
6HP04CH-TL-W
+5V
IC6
LP2985AIM5-3.3/NOPB
VREG
IN
OUT
ON/OFF
BYP
GND
+3V3
C13
1µF
R5
100kΩ
RN2A
22 Ohm [CAY16-220J4LF]
RD+
RN2D
22 Ohm [CAY16-220J4LF]
RD-
R3
5.1kΩ
R4
5.1kΩ
Z1
Z2
L1
1µH
UGND
GROUND31
0Ω
Reset2
RN5B_1
D2
RN5B_2
ICSP1_31
MISO2
SCK2
Reset2
MOSI2
+5V
HDR2X3
IC4
ATMEGA 16U2-MU-Shield
ATMEGA 16U2-MU
XTAL1
XTAL2 (PC0)
GND
VCC
PC2 (PCINT11/AIN2)
PD0 (OC0B/INT0)
PD1 (AIN0/INT1)
PD2 (RXD1/AIN1/INT2)
PD3 (TXD1/INT3)
PD4 (XCK1/INT4)
PD5 (CTS/INT5)
PD6 (RTS/INT6)
PD7 (HWB/INT7)
PB0 (ICP1/CLKO)
PB1 (OC1A/PCINT1)
PB2 (OC1B/PCINT2)
Pad
AVCC
UVCC
D-
D+
UGND
UCAP
(PCINT10) PC4
(OC1B/PCINT9) PC5
(dW/PC1) Reset
(PCINT8/OC1A) PC6
(CLKO/ICP1/INT4) PC7
(PCINT7/OC0A/OC.0A) PB7
(PCINT6) PB6
(PCINT5) PB5
(PCINT4/T1) PB4
(PCINT3/MISO/PDO) PB3
USBVCC
RD-
RD+
UGND
C10
1µF
Reset2
MISO2
+5V
C11
100nF
1 kOhm [CAY16-102J4LF]
PE1
RN4A
PE0
RN4B
1 kOhm [CAY16-102J4LF]
C9
100nF
XTAL1
XTAL2
RESET
RESET_EN31
C7
0Ω
100nF
RN3D_1
RN3D_2
C15
22pF
R2
1MΩ
Y2
CRYSTAL_VIRTUAL
C14
22pF
XTAL2
XTAL1
SCK2
MOSI2
TX31
LED
RN4C
1 kOhm [CAY16-102J4LF]
RX31
LED
RN4D
kOhm [CAY16-102J4LF]
+5V