Crystal Selection

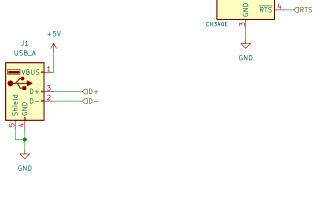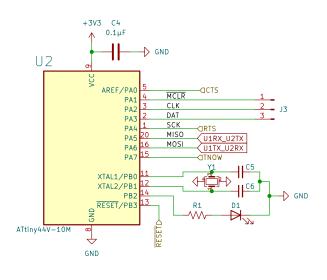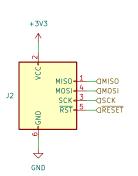|	Y1		C4, C5
RH100-8.000-16-3030-TR-NS1	8MHz		28pF
RH100-16.000-8-2020-TR	*16MHz		12pF

*ATtiny44V doesn't officially
support clock speeds over 8MHz

LED Selection

	D1	R1
B1911NG--20D000114U1930	Yellow/Green	60Ω
B1931NB--20C006714U1930	Blue	0Ω
150060BS75000	Blue	0-5Ω

U1 CH340E

+3V3 C3 0.1µF GND

V3 VCC
TXD 8 U1TX_U2RX
RXD 9 U1RX_U2TX
CTS 5 CTS
RTS 4 RTS
UD+ 1 D+
UD- 2 D-
TNOW 6 TNOWD
GND 3 GND

J1 USB_A

+5V
VBUS 1
D+ 3 D+
D- 2 D-
Shield GND 5 4
GND

U2 ATtiny44V-10M

+3V3 C4 0.1µF GND

VCC 9
AREF/PA0 5 CTS
PA1 4 MCLR 1
PA2 3 CLK 2 J3
PA3 2 DAT 3
PA4 1 SCK
PA5 20 MISO RTS
PA6 16 MOSI U1RX_U2TX
PA7 15 U1TX_U2RX
TNOW
XTAL1/PB0 11
XTAL2/PB1 12 Y1 C5
PB2 14 C6
RESET/PB3 13 R1 D1
GND 8 GND
RESET
GND

U3

+5V +3V3
VIN VOUT 1 5
EN 3
GND 2
C1 1µF C2 1µF
GND

J2

+3V3
VCC 2
MISO 1 MISO
MOSI 4 MOSI
SCK 3 SCK
RST 5 RESET
GND 6
GND