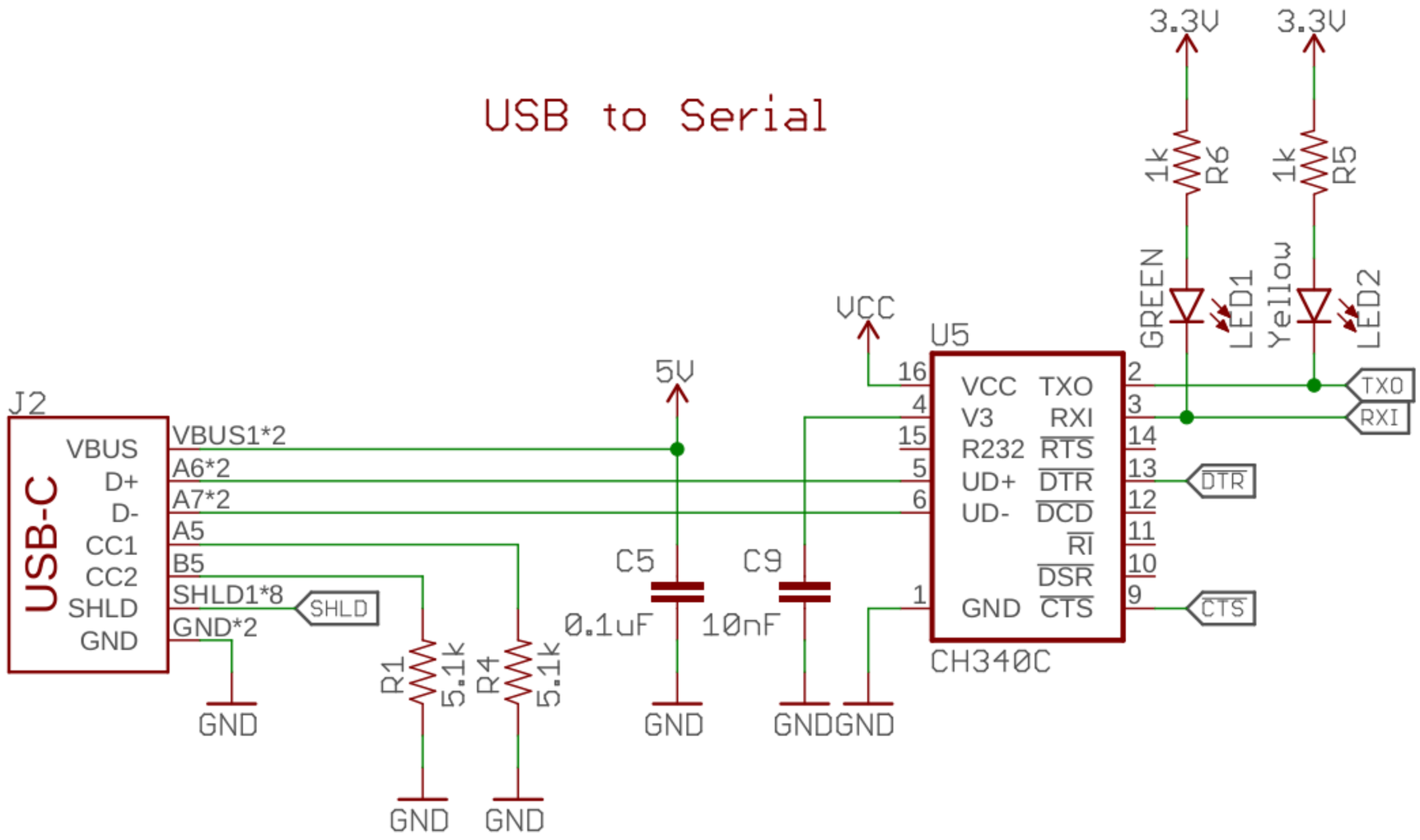
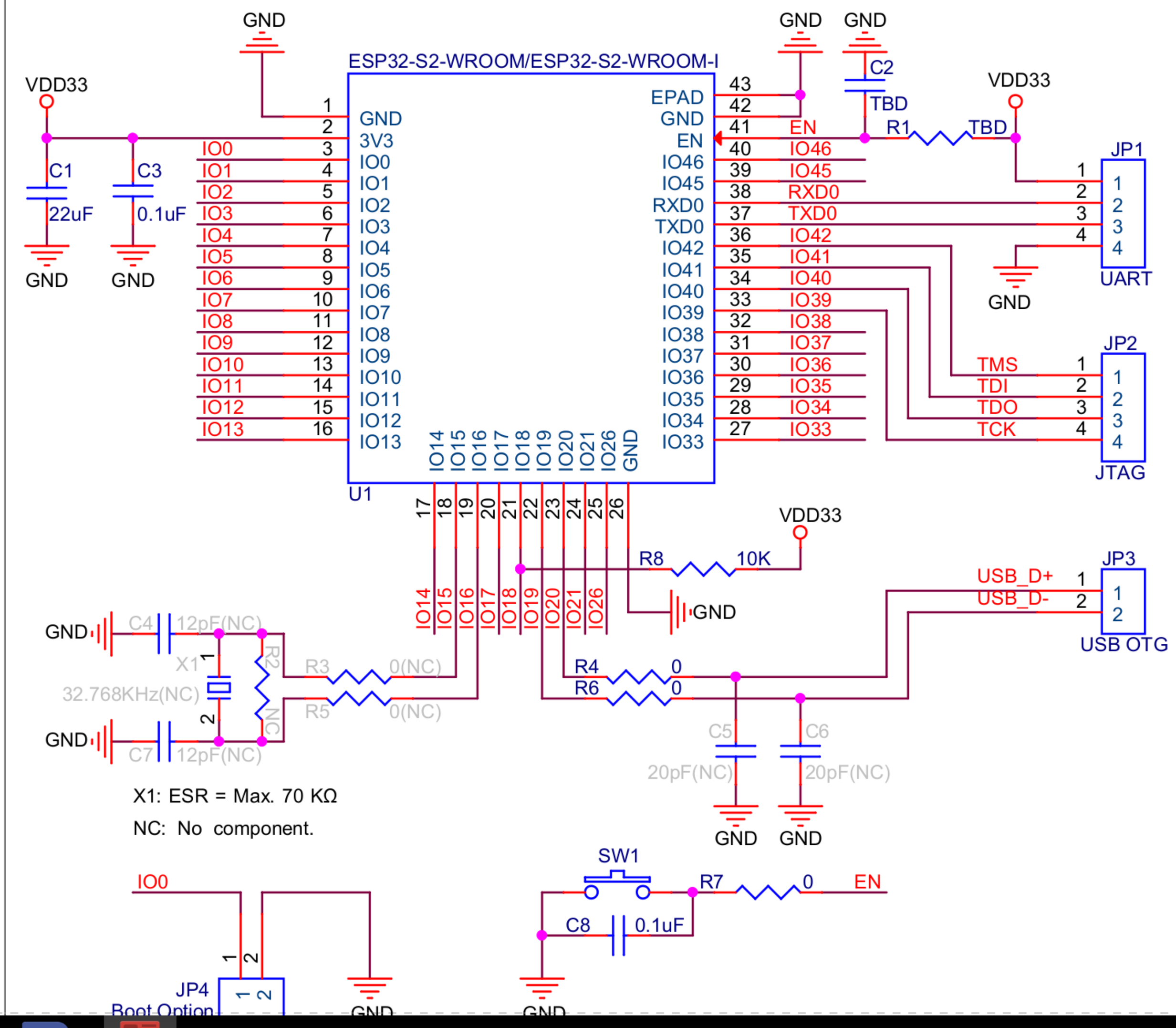
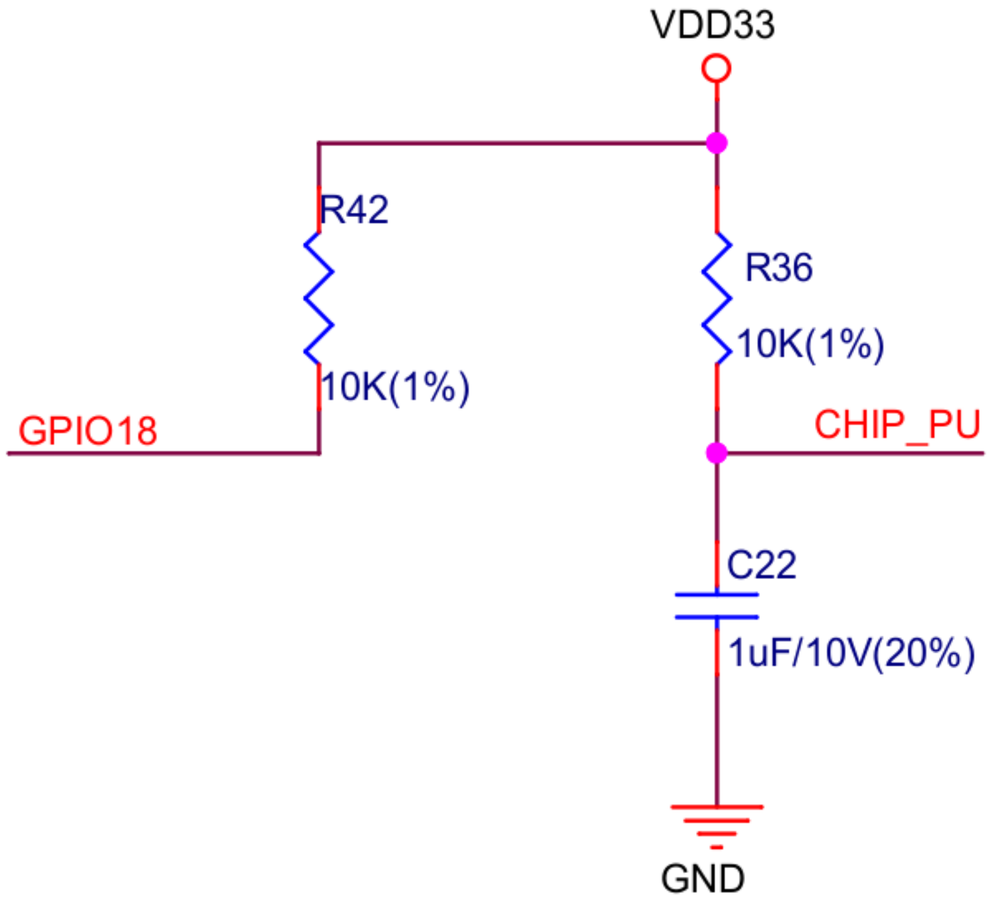
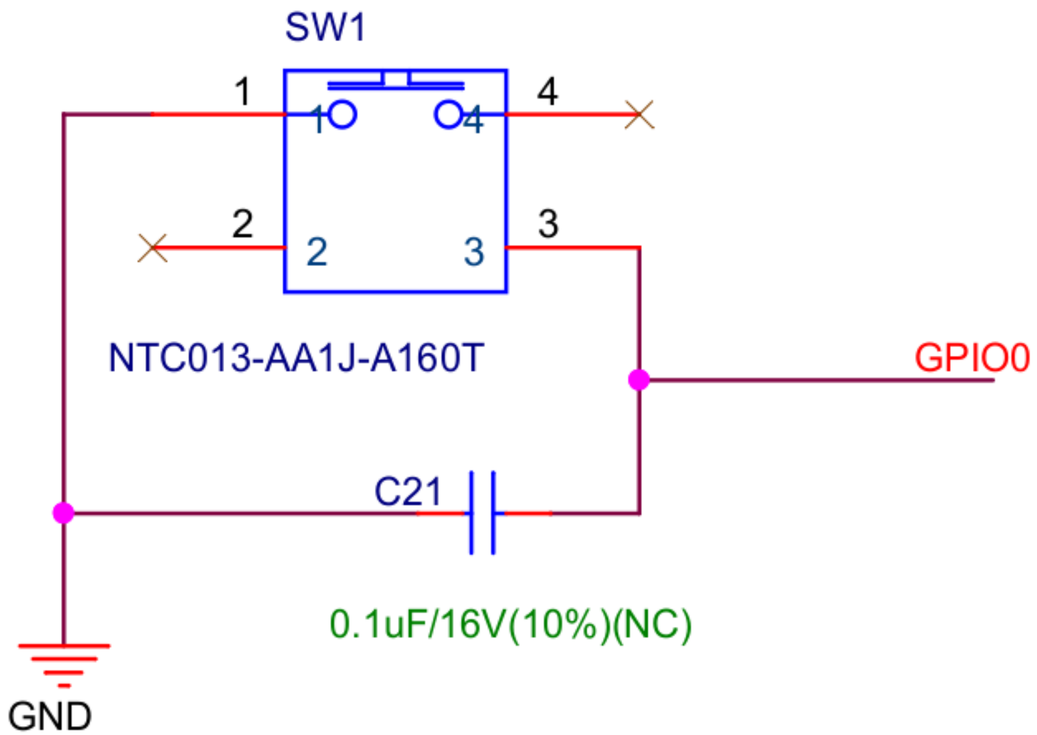
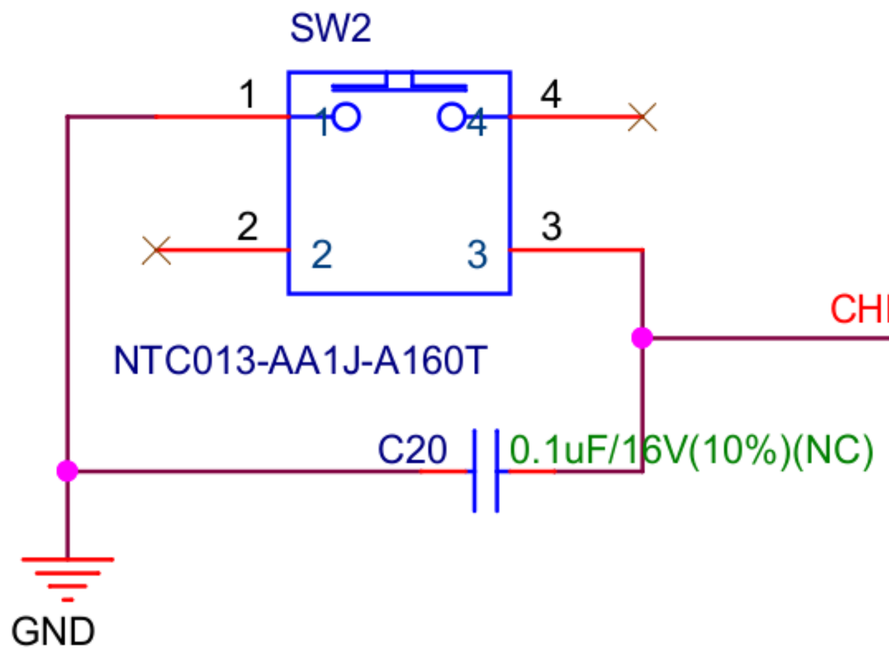
USB to Serial

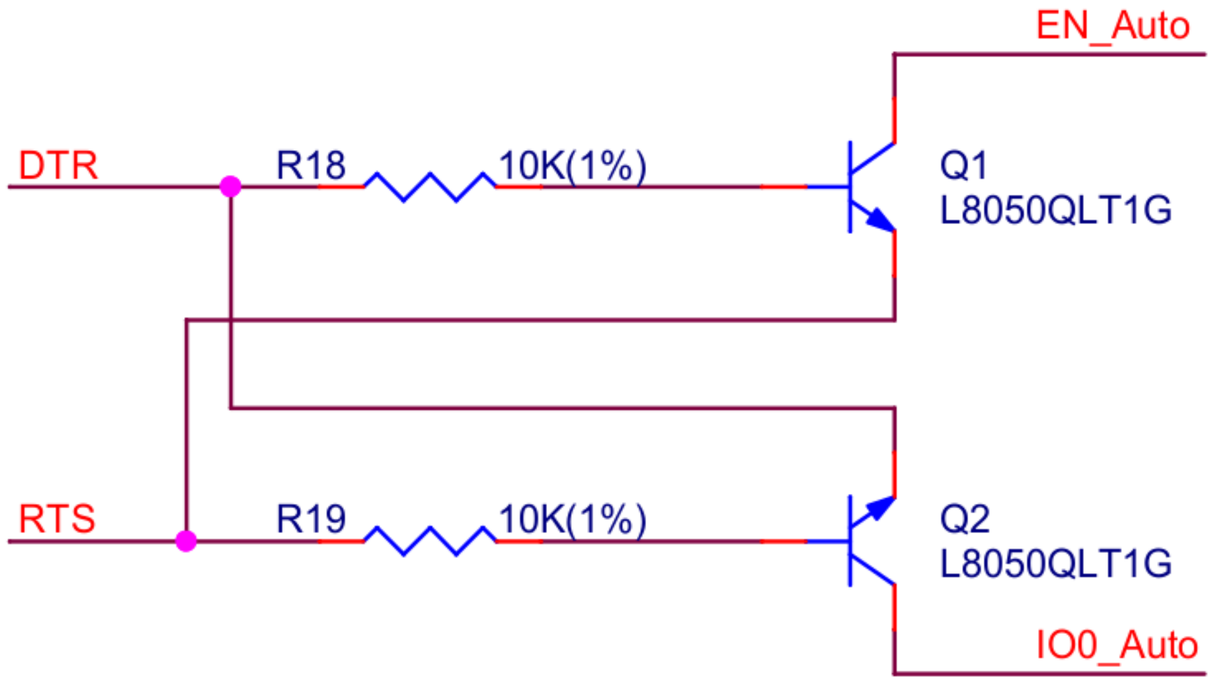



ESP32-S2-WROOM/ESP32-S2-WROOM-I
U1
GND
3V3
IO0
IO1
IO2
IO3
IO4
IO5
IO6
IO7
IO8
IO9
IO10
IO11
IO12
IO13
IO14
IO15
IO16
IO17
IO18
IO19
IO20
IO21
IO26
EPAD
EN
IO46
IO45
RXD0
TXD0
IO42
IO41
IO40
IO39
IO38
IO37
IO36
IO35
IO34
IO33
VDD33
C1
22uF
C3
0.1uF
C2
TBD
R1
TBD
JP1
UART
TMS
TDI
TDO
TCK
JP2
JTAG
R8
10K
USB_D+
USB_D-
JP3
USB OTG
C4
12pF(NC)
X1
32.768KHz(NC)
C7
12pF(NC)
R2
NC
R3
0(NC)
R5
0(NC)
R4
0
R6
0
C5
20pF(NC)
C6
20pF(NC)
X1: ESR = Max. 70 KΩ
NC: No component.
SW1
R7
0
EN
C8
0.1uF
IO0
JP4
Boot Option


VDD33
R42
10K(1%)
GPIO18
R36
10K(1%)
CHIP_PU
C22
1uF/10V(20%)
GND


SW1
1
4
2
2
3
3
NTC013-AA1J-A160T
GPIO0
C21
0.1uF/16V(10%)(NC)
GND


SW2
1
4
2
2
3
3
NTC013-AA1J-A160T
CHIP_PU
C20
0.1uF/16V(10%)(NC)
GND



Auto program

DTR	RTS-->EN	IO0	IO2
1	1	1	1
0	0	1	1
1	0	0	1
0	1	1	0