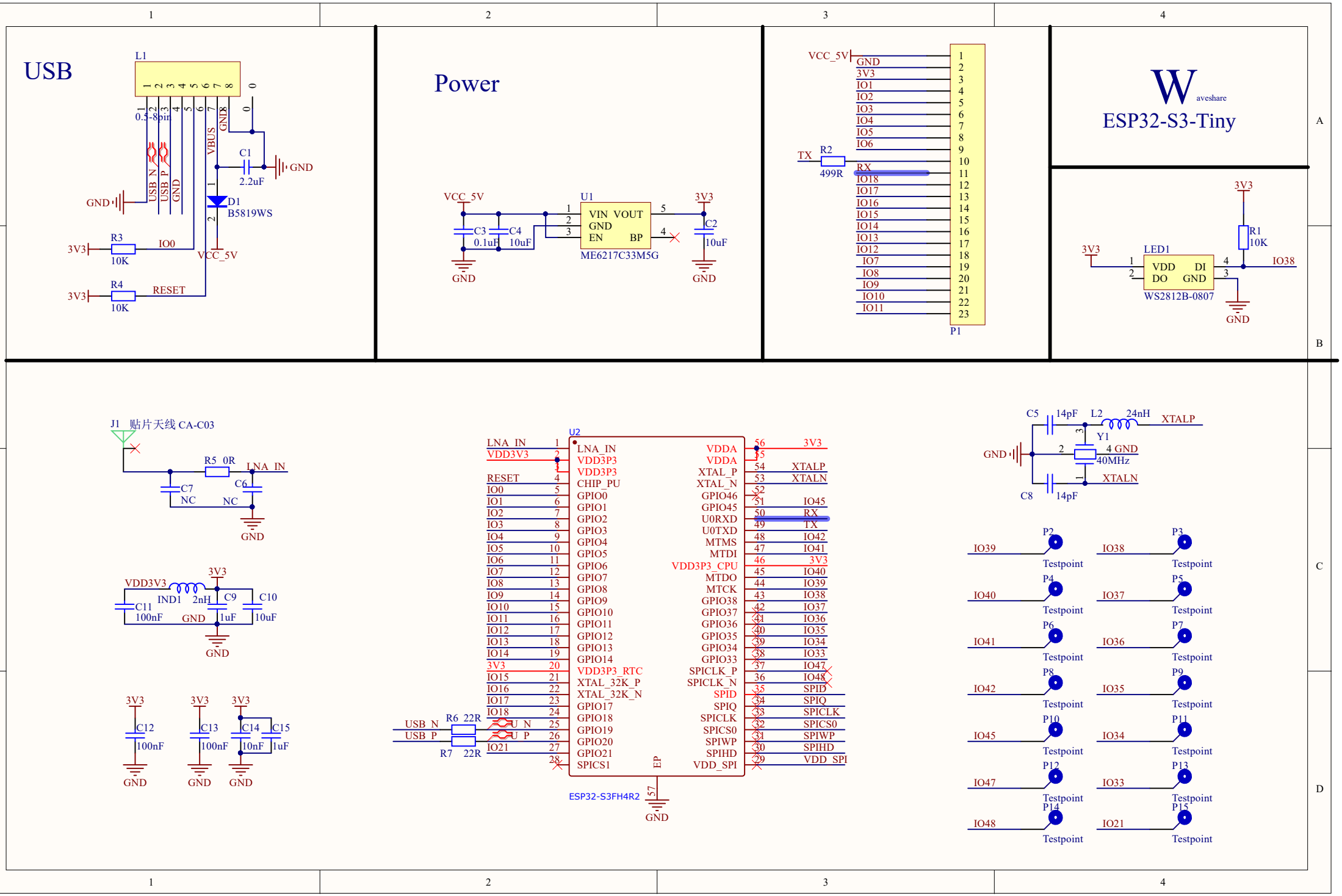
USB
L1
0.5-8pin
USB_N
USB_P
GND
VBUS
GND
C1
2.2uF
GND
D1
B5819WS
3V3
R3
10K
IO0
VCC_5V
3V3
R4
10K
RESET
Power
VCC_5V
U1
VIN VOUT
GND
EN BP
ME6217C33M5G
3V3
C3
0.1uF
C4
10uF
C2
10uF
GND
GND
VCC_5V
GND
3V3
IO1
IO2
IO3
IO4
IO5
IO6
TX
R2
499R
RX
IO18
IO17
IO16
IO15
IO14
IO13
IO12
IO7
IO8
IO9
IO10
IO11
P1
Waveshare
ESP32-S3-Tiny
3V3
R1
10K
3V3
LED1
VDD DI
DO GND
IO38
WS2812B-0807
GND
J1 贴片天线 CA-C03
R5 0R
LNA_IN
C7
NC
C6
NC
GND
3V3
VDD3V3
IND1 2nH
C9
C10
C11
100nF
GND
1uF
10uF
GND
3V3
3V3
3V3
C12
100nF
C13
100nF
C14
10nF
C15
1uF
GND
GND
GND
U2
LNA_IN
VDD3V3
RESET
IO0
IO1
IO2
IO3
IO4
IO5
IO6
IO7
IO8
IO9
IO10
IO11
IO12
IO13
IO14
3V3
IO15
IO16
IO17
IO18
USB_N
USB_P
R6 22R
R7 22R
IO21
LNA_IN
VDD3P3
VDD3P3
CHIP_PU
GPIO0
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO7
GPIO8
GPIO9
GPIO10
GPIO11
GPIO12
GPIO13
GPIO14
VDD3P3_RTC
XTAL_32K_P
XTAL_32K_N
GPIO17
GPIO18
GPIO19
GPIO20
GPIO21
SPICS1
U_N
U_P
VDDA
VDDA
XTAL_P
XTAL_N
GPIO46
GPIO45
U0RXD
U0TXD
MTMS
MTDI
VDD3P3_CPU
MTDO
MTCK
GPIO38
GPIO37
GPIO36
GPIO35
GPIO34
GPIO33
SPICLK_P
SPICLK_N
SPID
SPIQ
SPICLK
SPICS0
SPIWP
SPIHD
VDD_SPI
EP
3V3
XTALP
XTALN
IO45
RX
TX
IO42
IO41
3V3
IO40
IO39
IO38
IO37
IO36
IO35
IO34
IO33
IO47
IO48
SPID
SPIQ
SPICLK
SPICS0
SPIWP
SPIHD
VDD_SPI
ESP32-S3FH4R2
GND
C5
14pF
L2
24nH
XTALP
Y1
GND
4 GND
40MHz
XTALN
C8
14pF
P2
IO39
Testpoint
P3
IO38
Testpoint
P4
IO40
Testpoint
P5
IO37
Testpoint
P6
IO41
Testpoint
P7
IO36
Testpoint
P8
IO42
Testpoint
P9
IO35
Testpoint
P10
IO45
Testpoint
P11
IO34
Testpoint
P12
IO47
Testpoint
P13
IO33
Testpoint
P14
IO48
Testpoint
P15
IO21
Testpoint