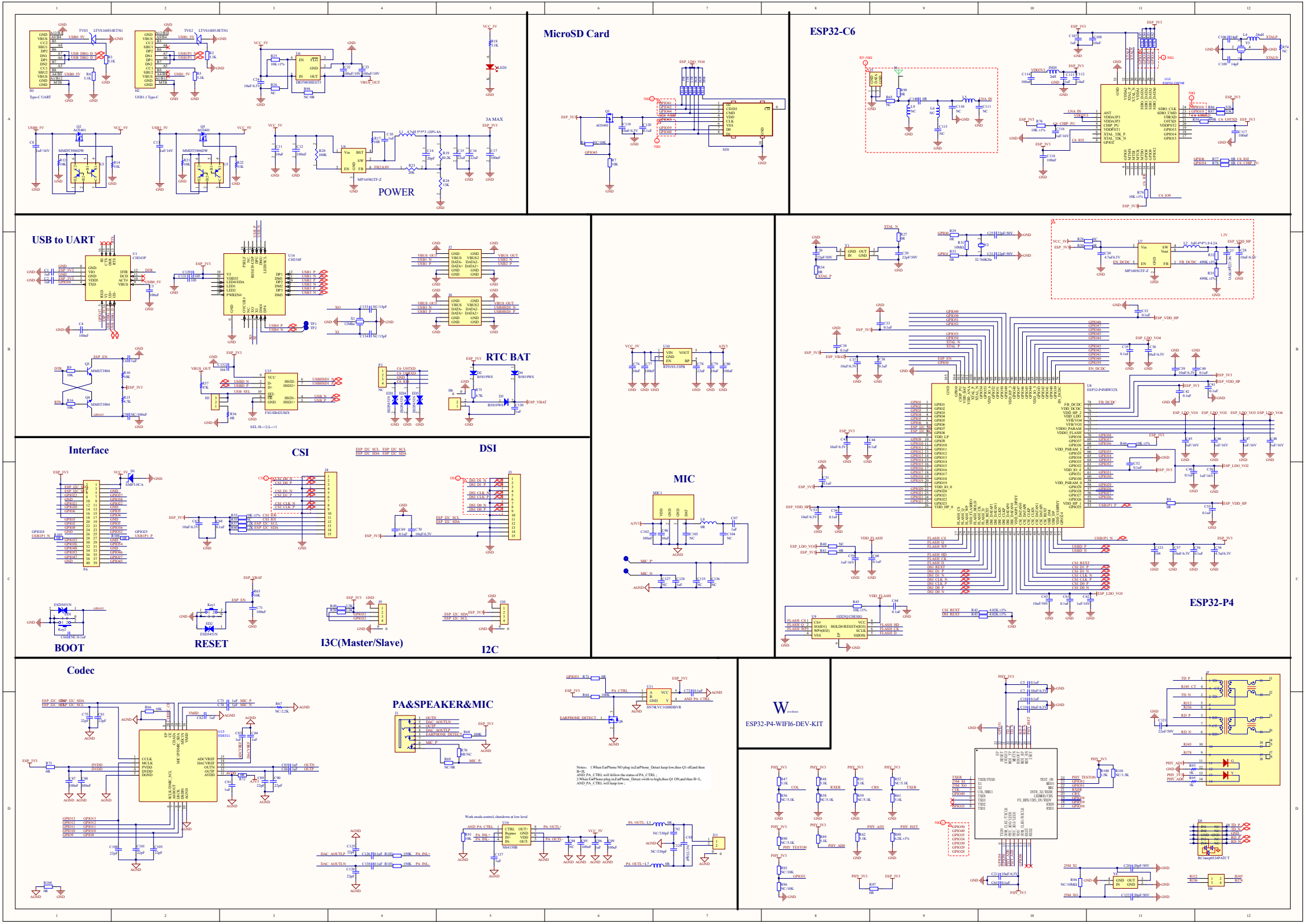
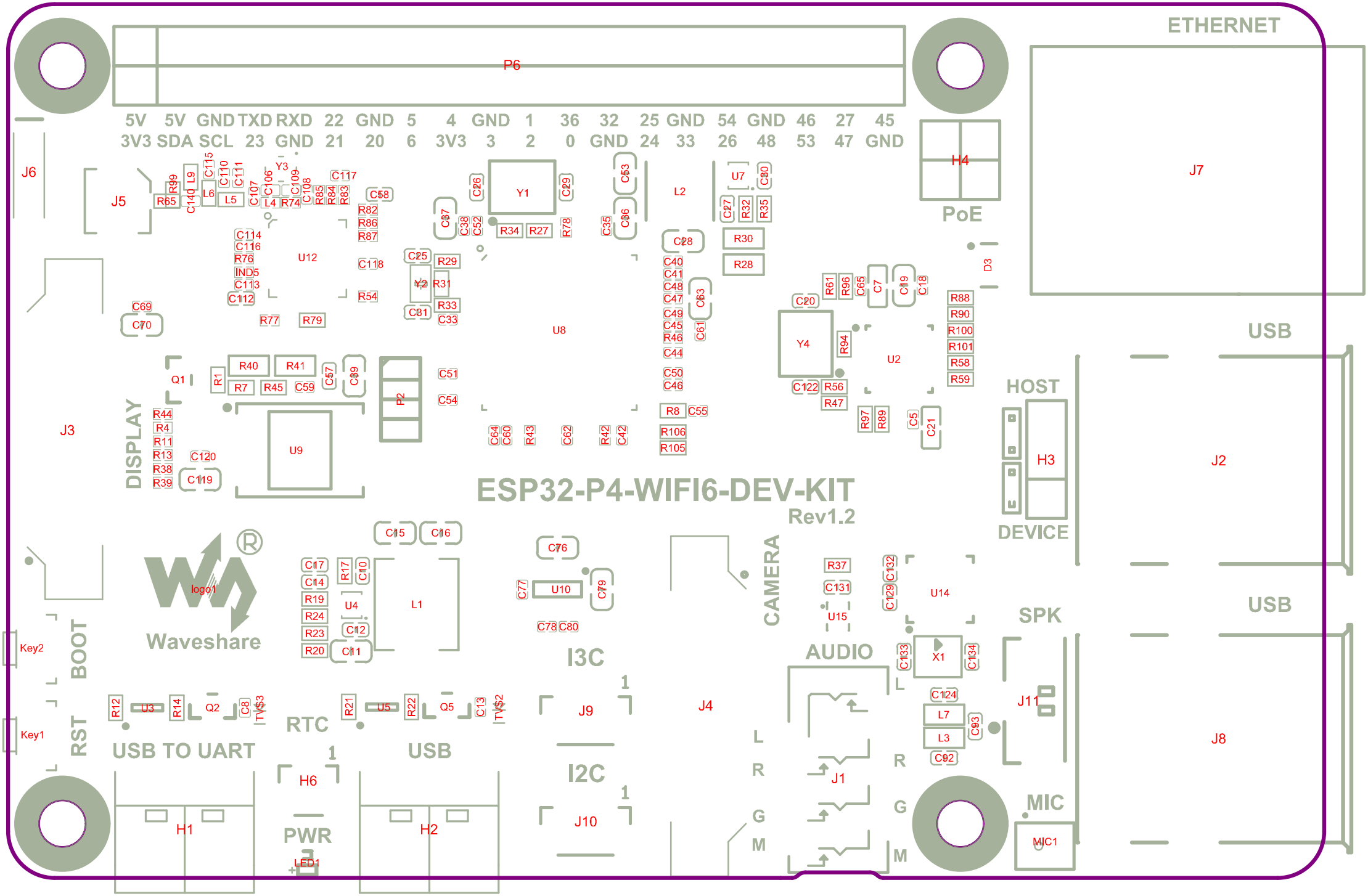
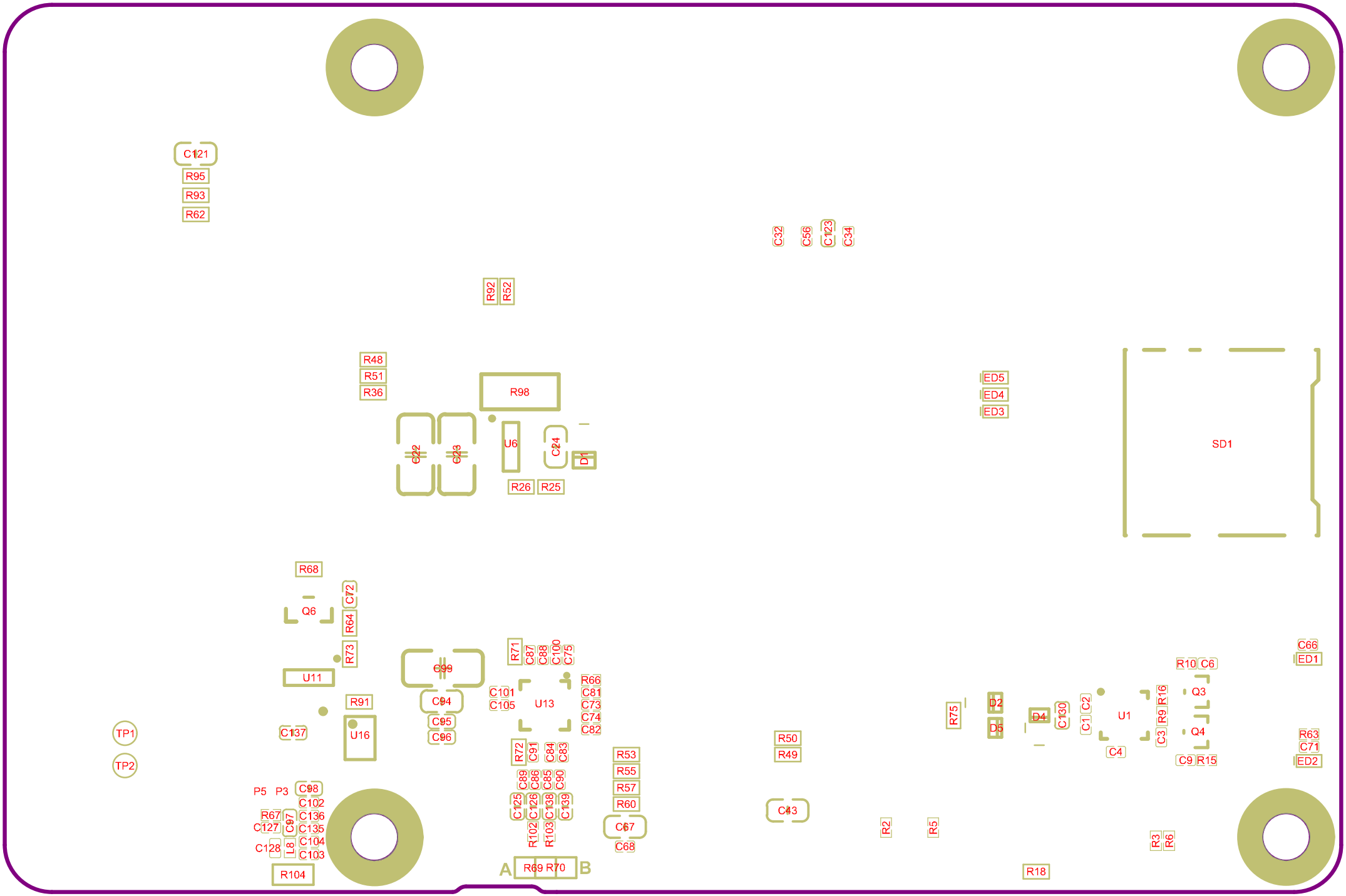

Type-C UART
USB1.1 Type-C
POWER
MicroSD Card
ESP32-C6
USB to UART
RTC BAT
Interface
CSI
DSI
MIC
ESP32-P4
BOOT
RESET
I3C(Master/Slave)
I2C
Codec
PA&SPEAKER&MIC
ESP32-P4-WIFI6-DEV-KIT


ESP32-P4-WIFI6-DEV-KIT
Rev1.2
ETHERNET
PoE
USB
HOST
DEVICE
SPK
MIC
AUDIO
CAMERA
I3C
I2C
RTC
PWR
USB TO UART
USB
BOOT
RST
Key1
Key2
DISPLAY
Waveshare
logo1
P6
5V 5V GND TXD RXD 22 GND 5 4 GND 1 36 32 25 GND 54 GND 46 27 45
3V3 SDA SCL 23 GND 21 20 6 3V3 3 2 0 GND 24 33 26 48 53 47 GND
J1
J2
J3
J4
J5
J6
J7
J8
J9
J10
J11
H1
H2
H3
H4
H6
U2
U4
U5
U7
U8
U9
U10
U12
U14
U15
Y1
Y2
Y3
Y4
X1
Q1
Q2
Q5
P2
MIC1
LED1
L1
L2
L3
L4
L5
L6
L7
L9
D3
TVS2
TVS3


C121
R95
R93
R62
C32
C56
C123
C34
R92
R52
R48
R51
R36
R98
C22
C23
U6
C24
D1
R26
R25
ED5
ED4
ED3
SD1
R68
Q6
C72
R64
R73
U11
C99
C94
C95
C96
R91
U16
C137
C101
C105
U13
R71
C87
C88
C100
C75
R66
C81
C73
C74
C82
R72
C91
C84
C83
C89
C86
C85
C90
C125
C126
C138
C139
R102
R103
R53
R55
R57
R60
C67
C68
R69
R70
A
B
R50
R49
C43
R2
R5
R75
D2
D5
D4
C130
C1
C2
U1
C4
R10
C6
Q3
R16
R9
C3
Q4
C9
R15
R3
R6
R18
C66
ED1
R63
C71
ED2
TP1
TP2
P5
P3
C98
C102
R67
C97
C136
C127
C135
C104
C128
L8
C103
R104