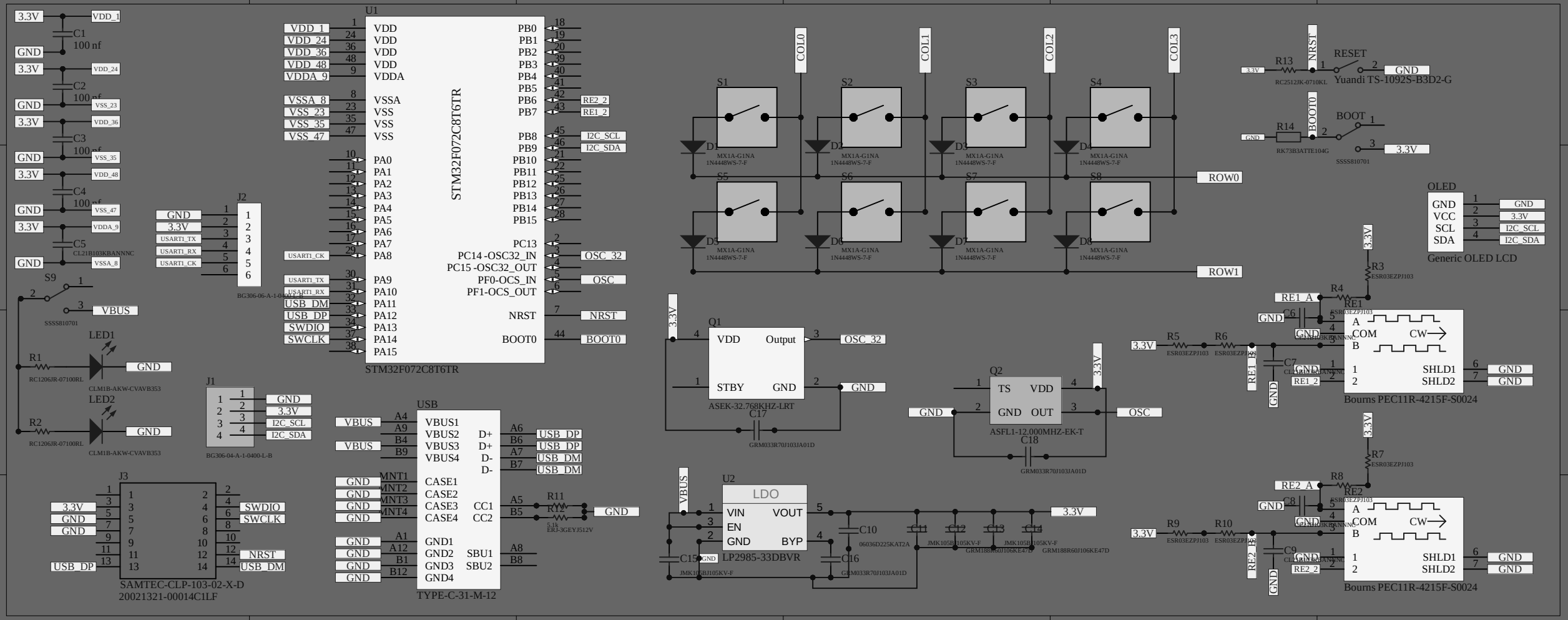
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VDD_1
VDD_24
VDD_36
VDD_48
VDDA_9
VSSA_8
VSS_23
VSS_35
VSS_47
VDD
VDDA
VSSA
VSS
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA9
PA10
PA11
PA12
PA13
PA14
PA15
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PB8
PB9
PB10
PB11
PB12
PB13
PB14
PB15
PC13
PC14 -OSC32_IN
PC15 -OSC32_OUT
PF0-OCS_IN
PF1-OCS_OUT
NRST
BOOT0
RE2_2
RE1_2
I2C_SCL
I2C_SDA
OSC_32
OSC
USART1_CK
USART1_TX
USART1_RX
USB_DM
USB_DP
SWDIO
SWCLK
C1
100 nf
C2
100 nf
C3
100 nf
C4
100 nf
C5
CL21B103KBANNNC
J2
BG306-06-A-1-0-0-L-B
S9
SSSS810701
VBUS
LED1
LED2
R1
R2
RC1206JR-07100RL
CLM1B-AKW-CVAVB353
J1
BG306-04-A-1-0400-L-B
J3
SAMTEC-CLP-103-02-X-D
20021321-00014C1LF
USB
TYPE-C-31-M-12
VBUS1
VBUS2
VBUS3
VBUS4
CASE1
CASE2
CASE3
CASE4
GND1
GND2
GND3
GND4
D+
D-
CC1
CC2
SBU1
SBU2
MNT1
MNT2
MNT3
MNT4
R11
R12
5.1k
ERJ-3GEYJ512V
COL0
COL1
COL2
COL3
S1
S2
S3
S4
S5
S6
S7
S8
D1
D2
D3
D4
D5
D6
D7
D8
MX1A-G1NA
1N4448WS-7-F
ROW0
ROW1
R13
RC2512JK-0710KL
NRST
RESET
Yuandi TS-1092S-B3D2-G
R14
RK73B3ATTE104G
BOOT0
BOOT
SSSS810701
OLED
GND
VCC
SCL
SDA
Generic OLED LCD
Q1
ASEK-32.768KHZ-LRT
VDD
Output
STBY
C17
GRM033R70J103JA01D
Q2
ASFL1-12.000MHZ-EK-T
TS
OUT
C18
U2
LDO
LP2985-33DBVR
VIN
VOUT
EN
BYP
C10
06036D225KAT2A
C11
C12
C13
C14
JMK105BJ105KV-F
GRM188R60J106KE47D
C15
C16
R3
R4
R5
R6
R7
R8
R9
R10
RE1
RE2
RE1_A
RE2_A
ESR03EZPJ103
C6
C7
C8
C9
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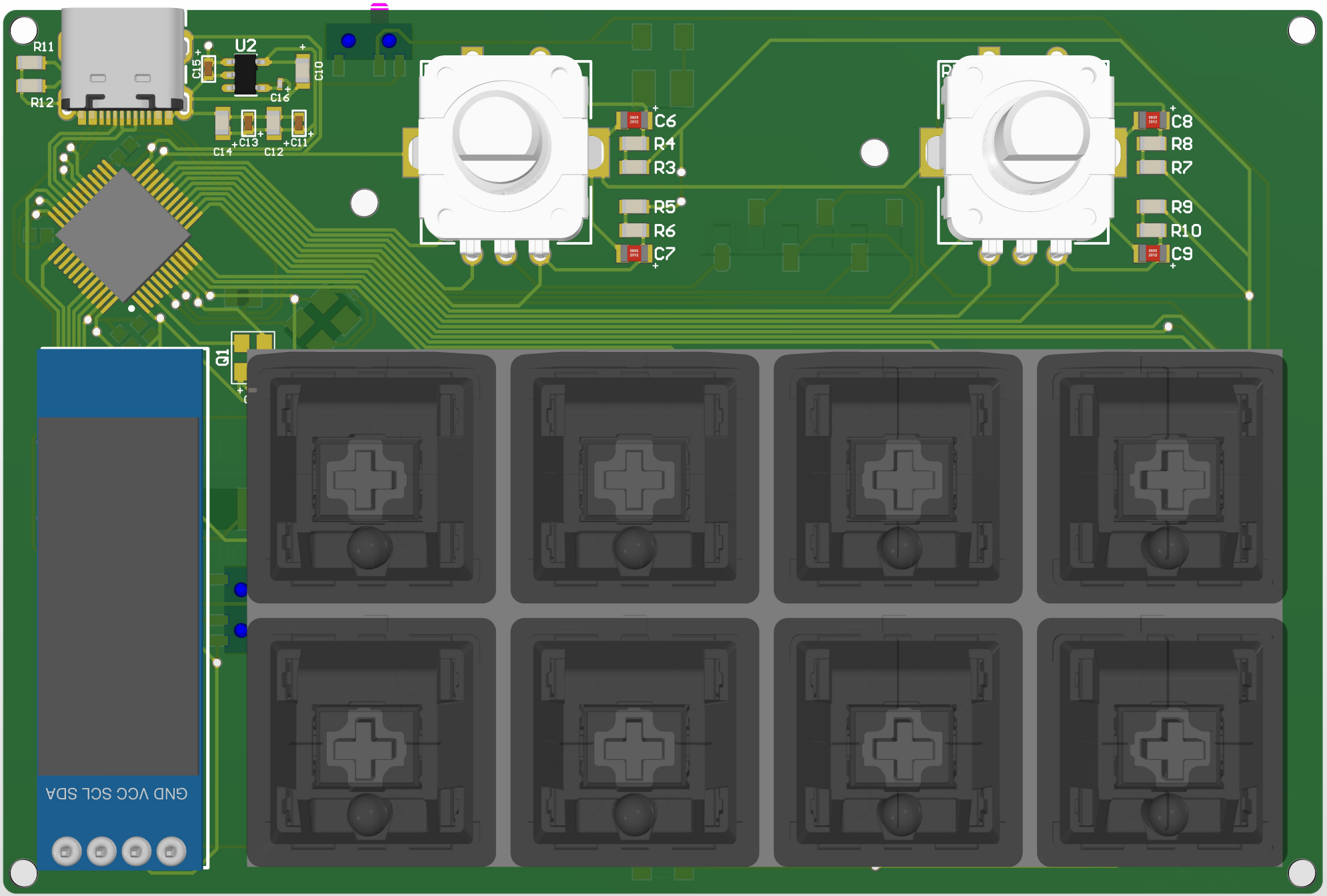
Bourns PEC11R-4215F-S0024
A
COM
B
CW
SHLD1
SHLD2


R11
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C16
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C11
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C7
C8
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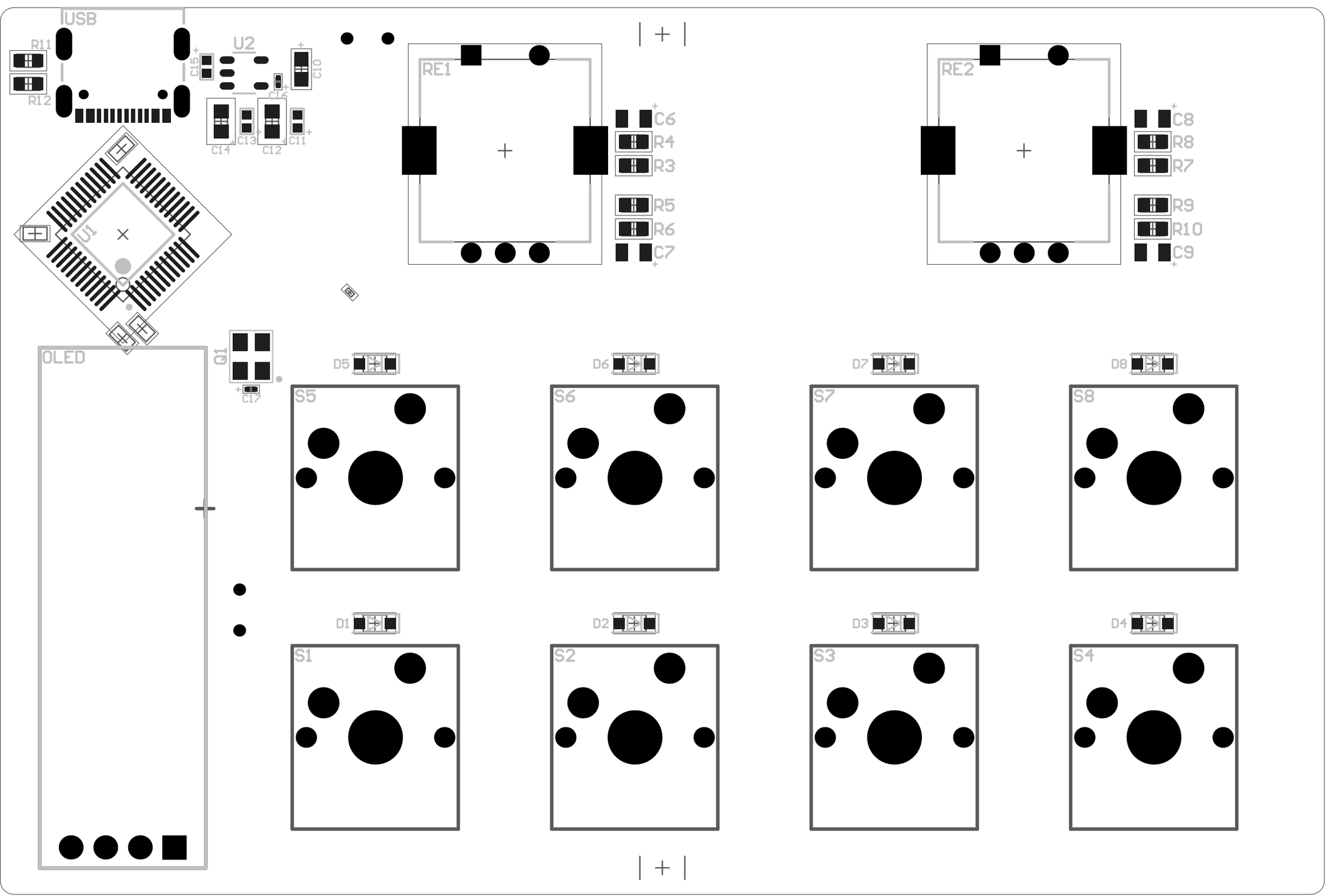
R7
R9
R10
C9
Q1
GND VCC SCL SDA


USB
R11
R12
U2
C15
C10
C16
C14
C13
C12
C11
U1
RE1
C6
R4
R3
R5
R6
C7
RE2
C8
R8
R7
R9
R10
C9
OLED
Q1
C17
D5
D6
D7
D8
S5
S6
S7
S8
D1
D2
D3
D4
S1
S2
S3
S4

S9
C2
C3
C4
C5
C8
Q2
R2
LED2
J2
RESET
J3
R13
BOOT
MAIN
SYSTEM
R14
J1
LED1
R1
Minipad
v1 Design by
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