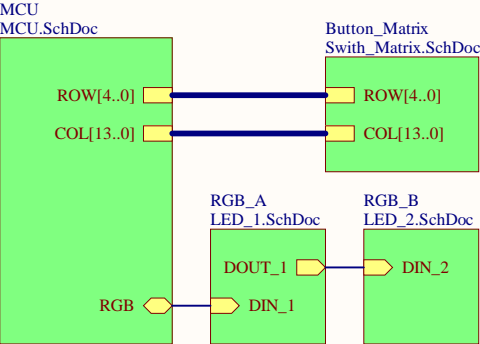


A



⚠ Slowblow fuse on MCU supply has a hold value of 100mA. CC1 @ CC2 are setup to request 3A on a USB-PD Port. This design is rated for <= 500mA operating current.

A

⚠ Factory PCB has 19.05mm switch spacing.

⚠ CC1 & CC2 have no TVS diodes, as they are not connected to the MCU.

⚠ RGB Led's are SK6812MINI-E, similar to WS2812.

⚠ USB D+ & D- are differential coplanar, target impedance is 90 with a 10% tolerance.

⚠ MX Switches will be in the north facing orientation. Due to USB placement, south facing is impossible, there is interference with the Kailh socket footprint.

⚠ The PCB tactile switch will force the MCU into DFU mode after power has been applied.

The VCC supervisor ensures the MCU will jump to the APP on powerup

⚠ This PCB is designed to replace the RK Royal Kludge RK61 stock PCB.
<https://www.amazon.com/dp/B089GNB1GF/>

PCB will be compatable with QMK and VIA.

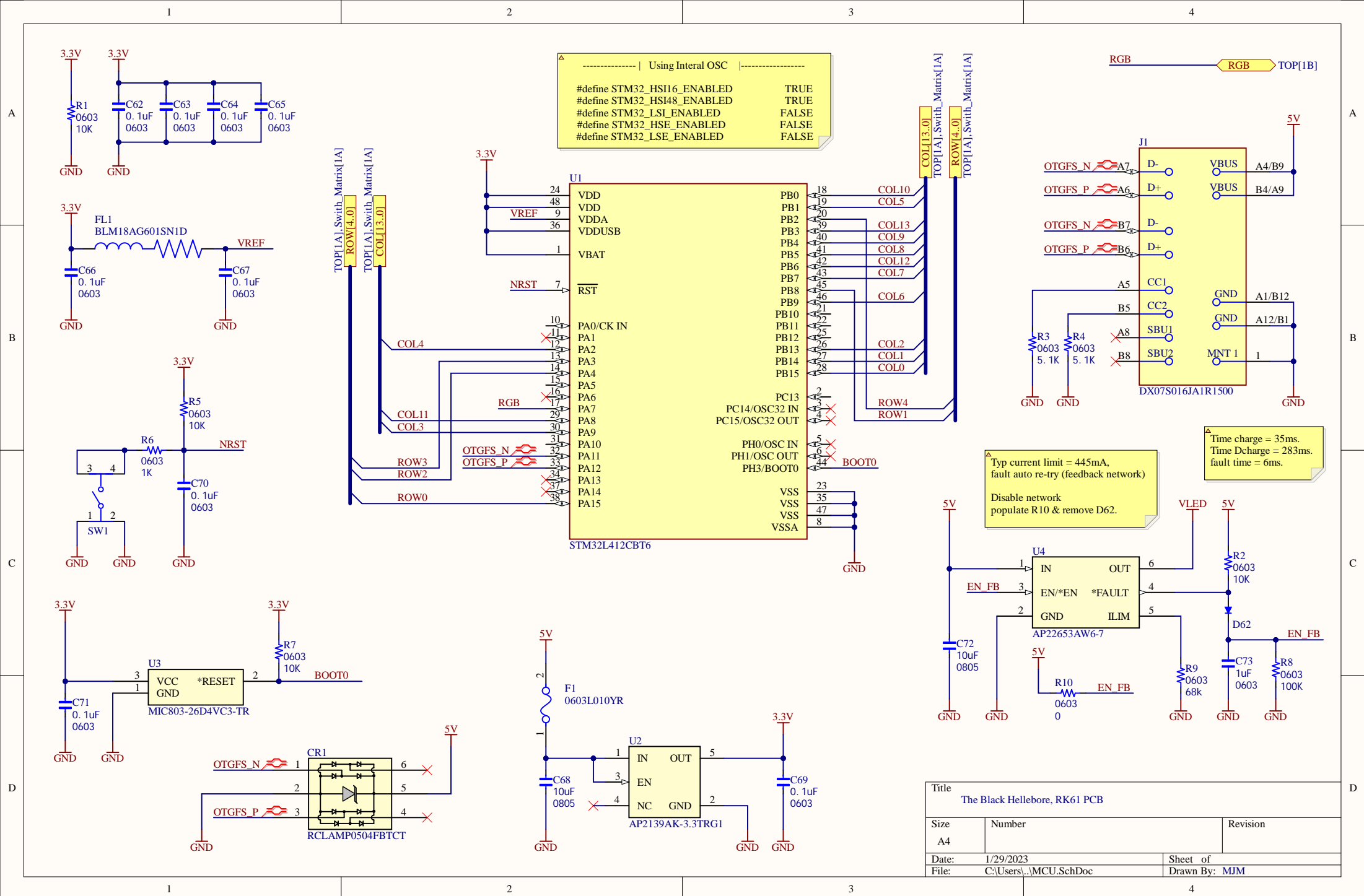
B

C

D

Title		
The Black Hellebore, RK61 PCB		
Size	Number	Revision
A4		
Date:	1/29/2023	Sheet of
File:	C:\Users\...\TOP.SchDoc	Drawn By: MJM

D



A

B

C

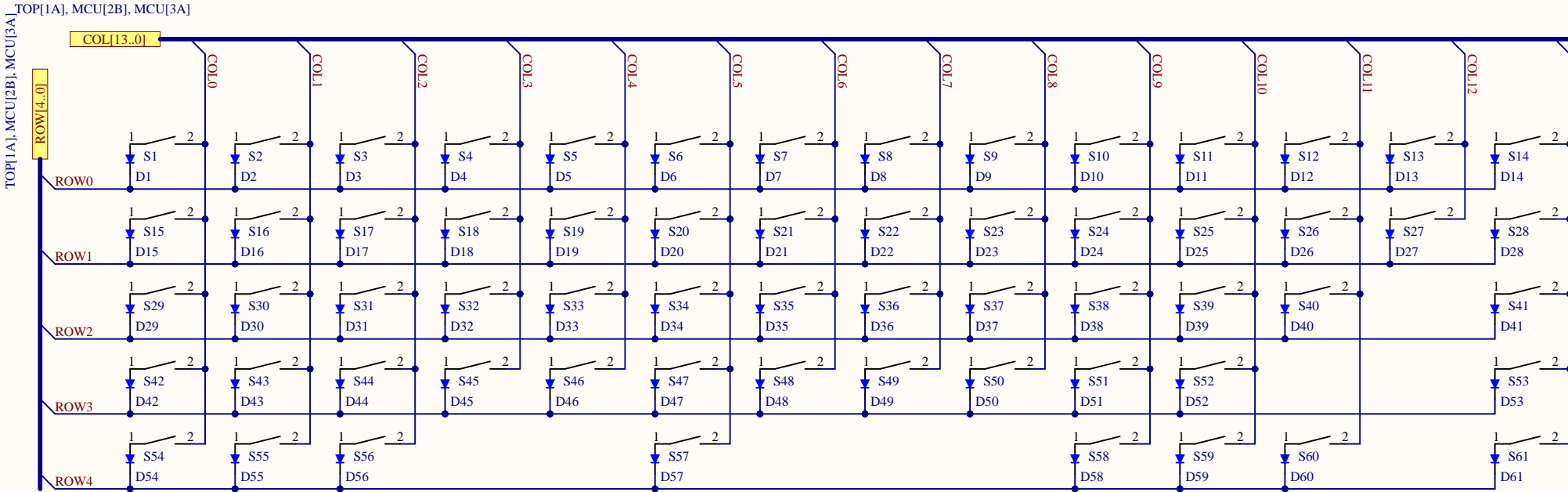
D

A

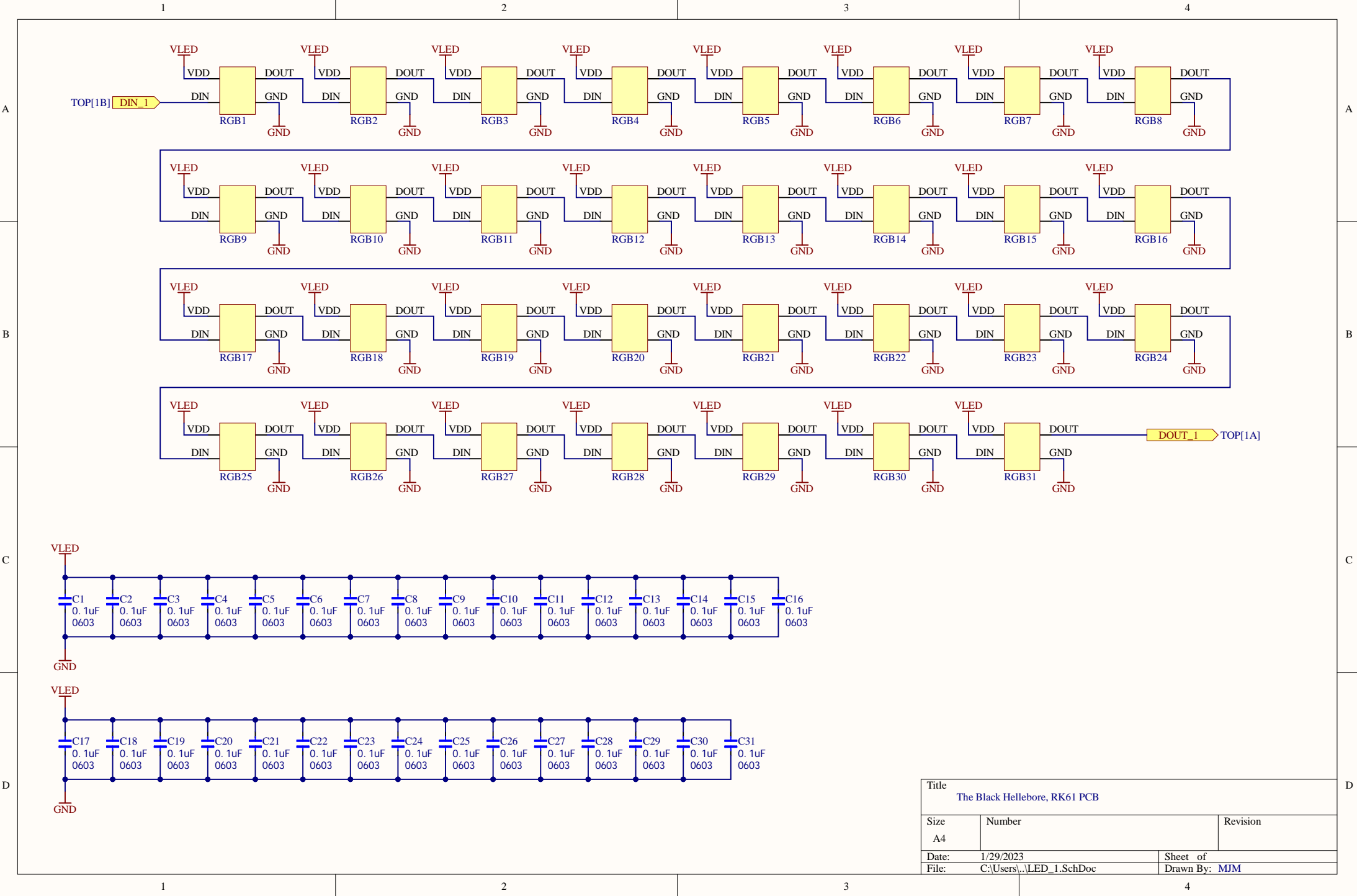
B

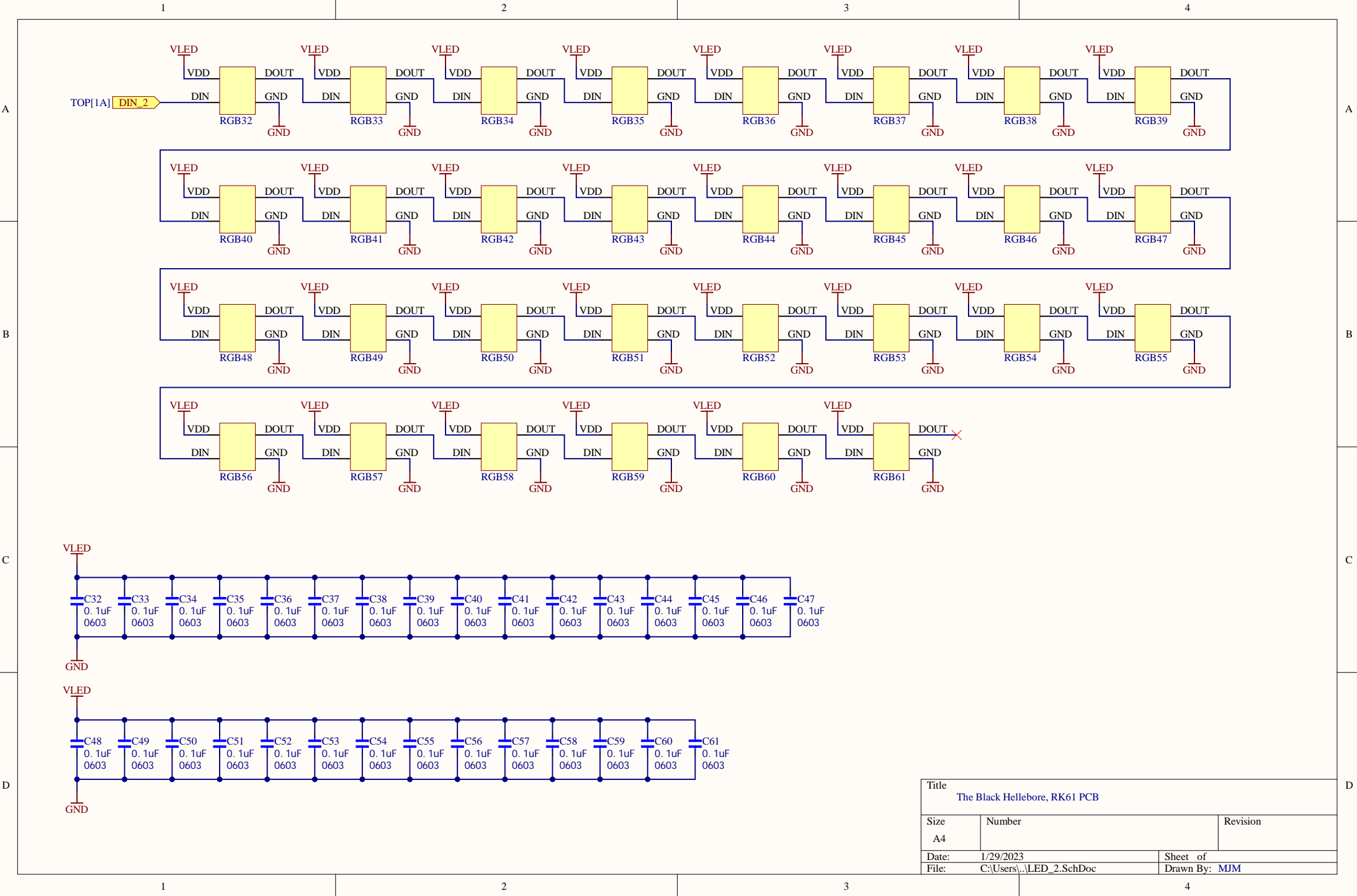
C

D



Title		
The Black Hellebore, RK61 PCB		
Size	Number	Revision
A4		
Date:	1/29/2023	Sheet of
File:	C:\Users\...\Swith_Matrix.SchDoc	Drawn By: MJM



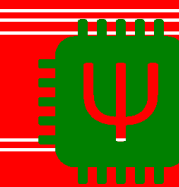




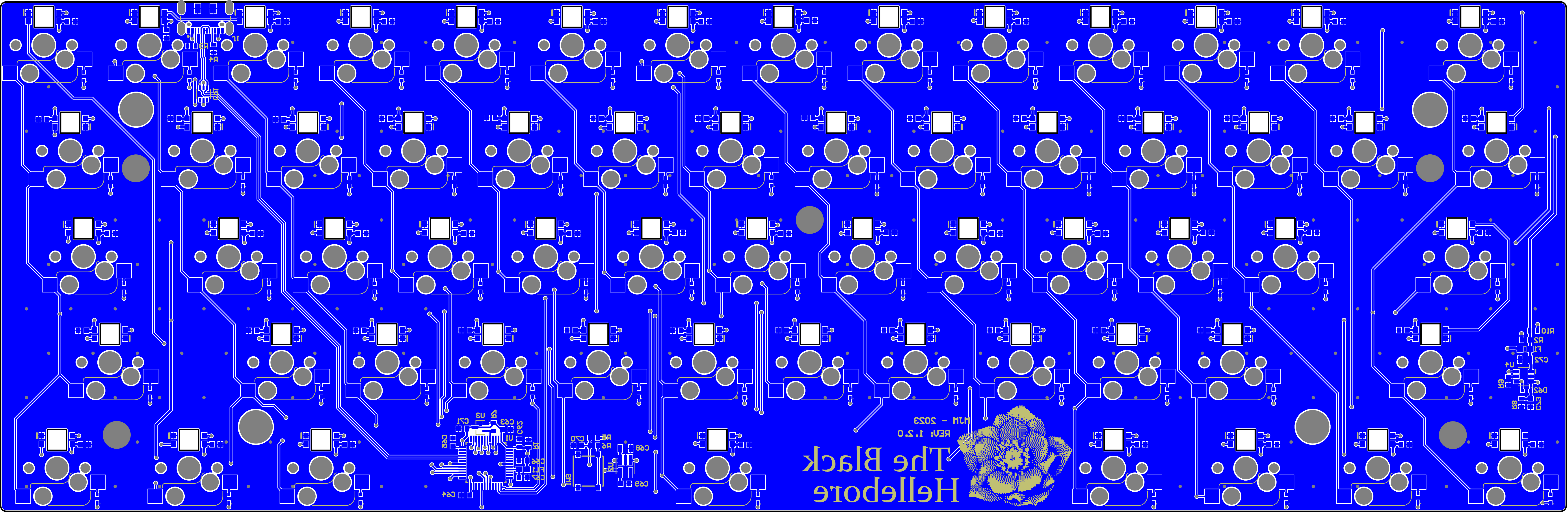
MJM - 2023
REV 1.2.0
1771

The Black
Hellebore

RK61 AFTERMARKET PCB
NOT AFFILIATED WITH (RK ROYAL KLUDGE)



Powered by
QMK Firmware



The Black
Helipore

REV: 1.5.0
M1M - 5053

R10
R5
L1
C25
D6S
C72
89

C68
R9
C50
211

C62
C63
C64
C65
C66
C67
C68
C69
C70
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C72
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C100