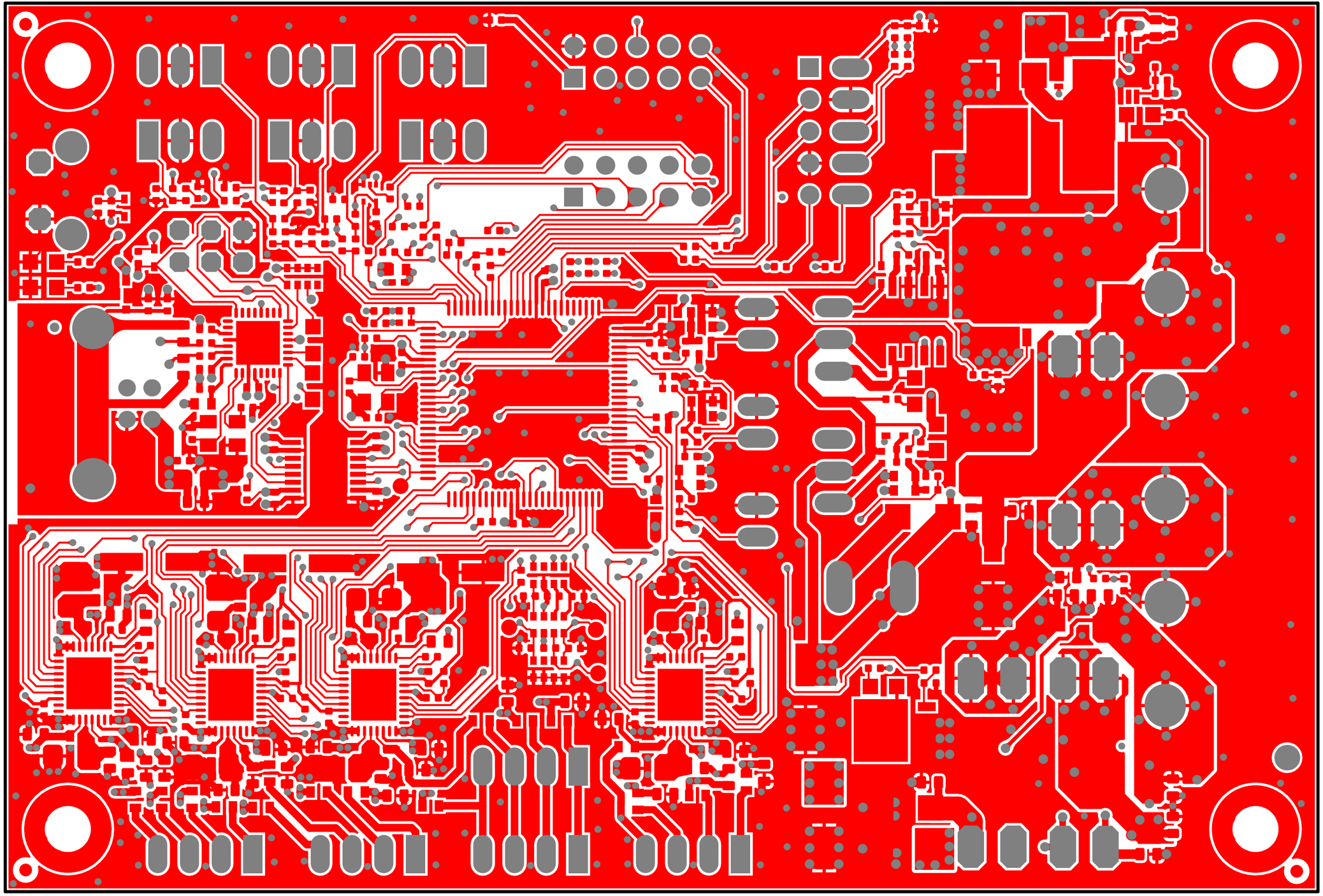
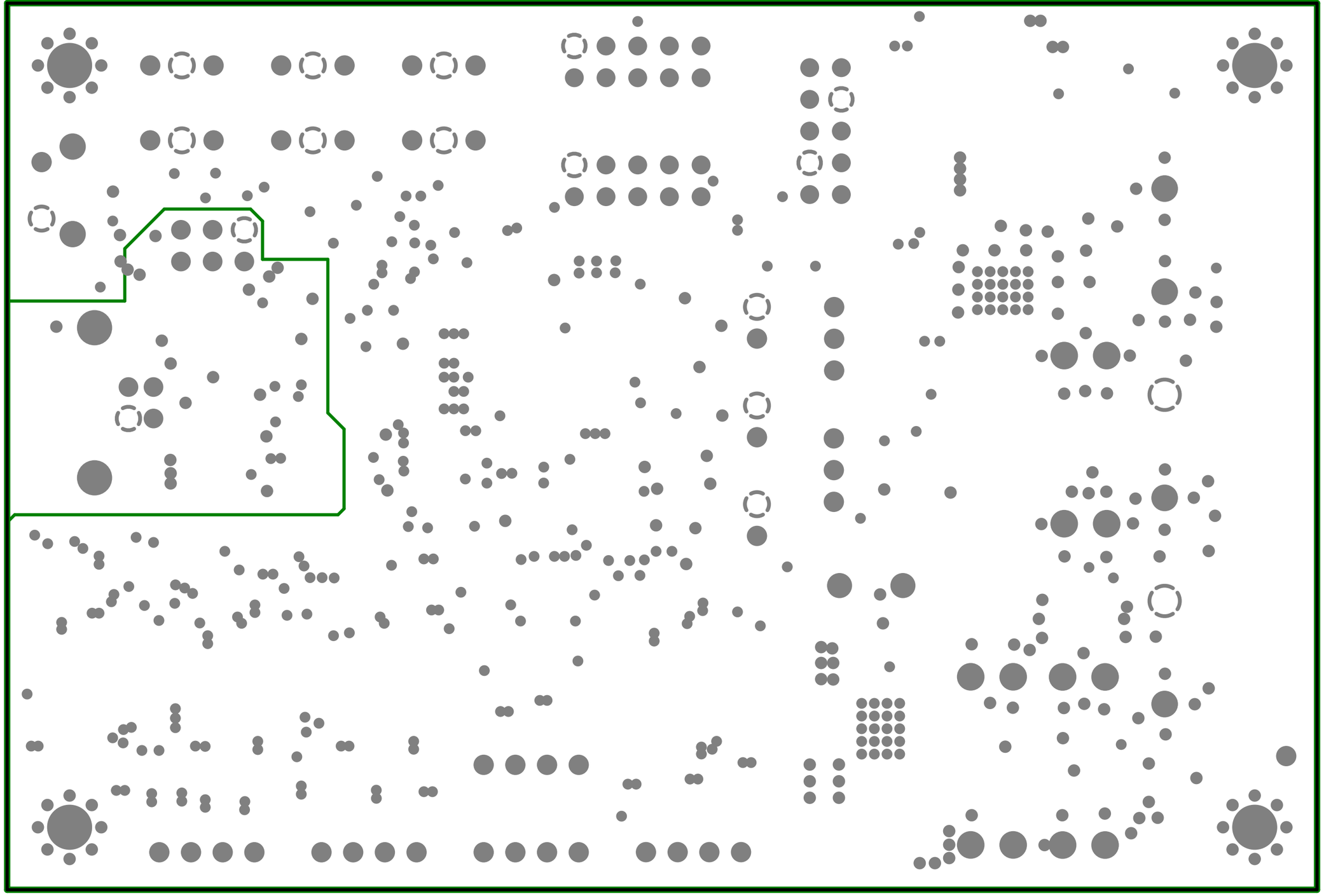
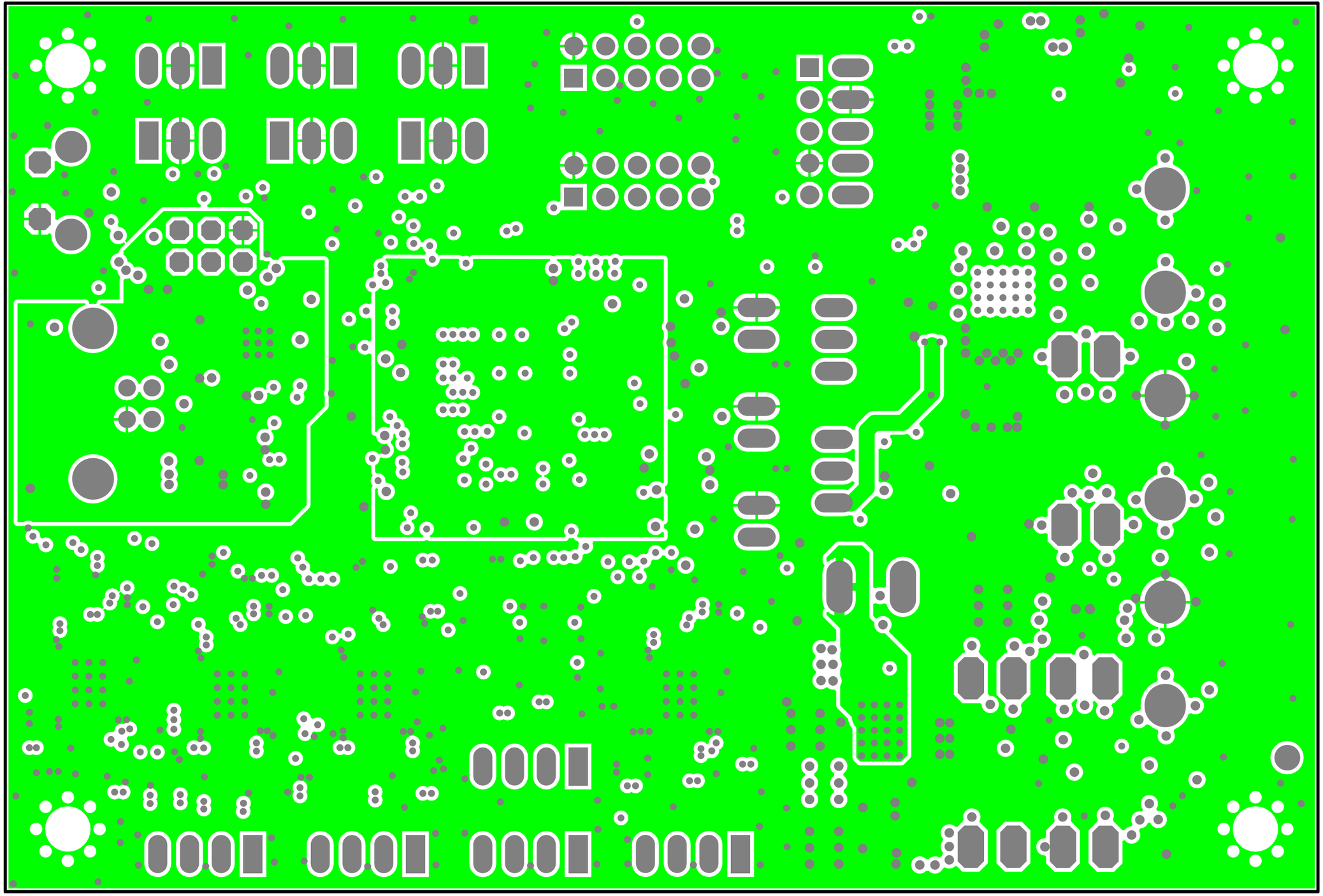
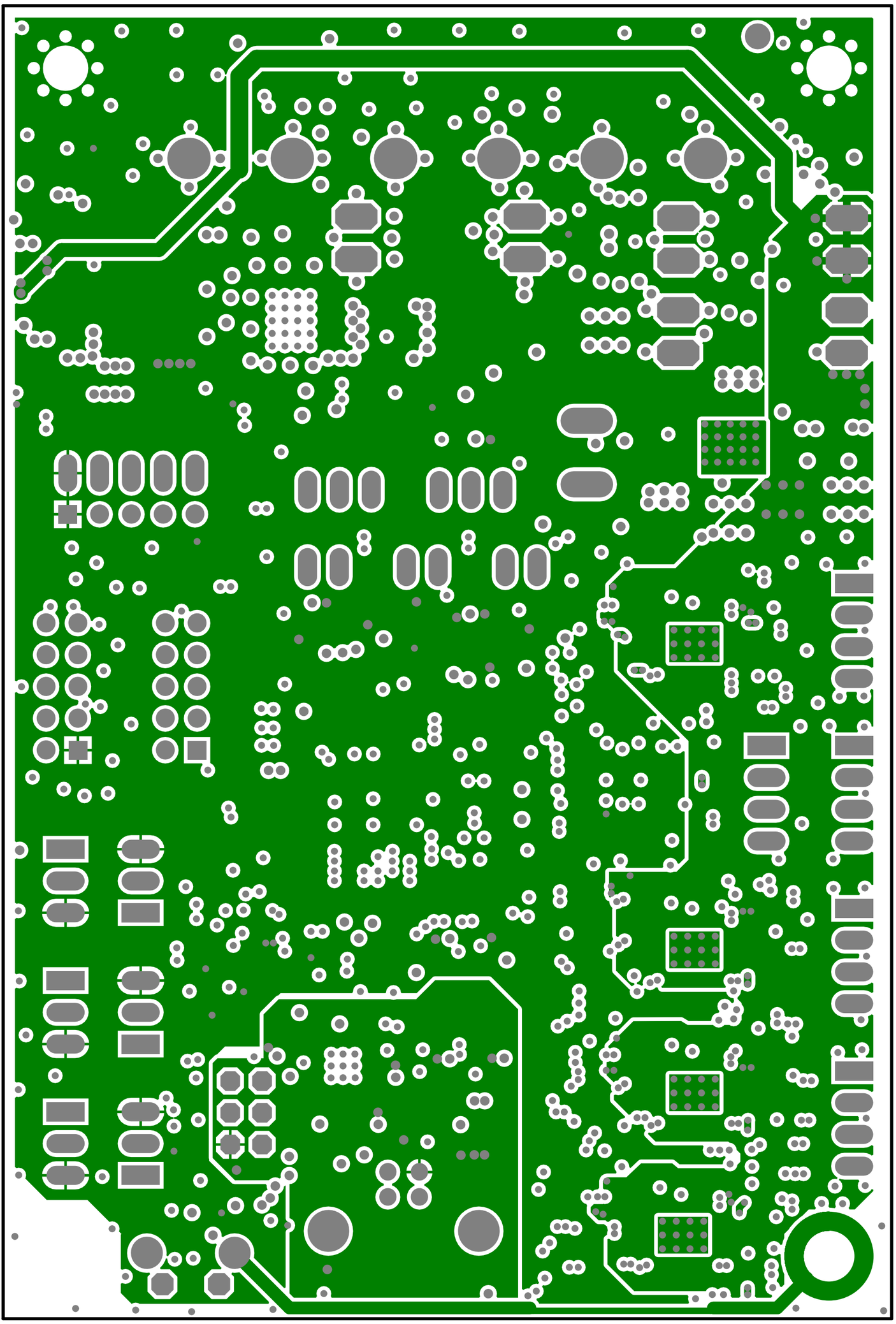
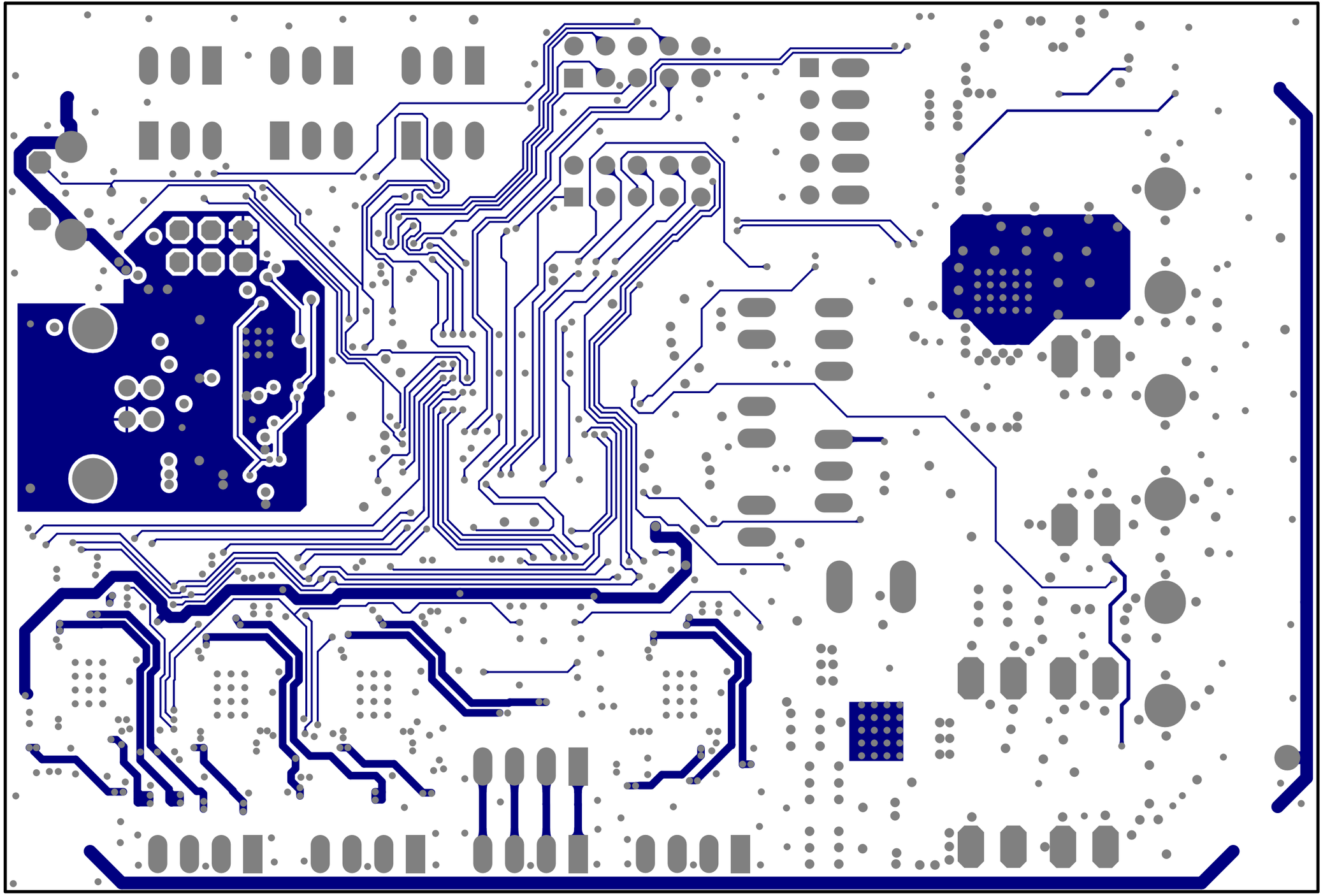
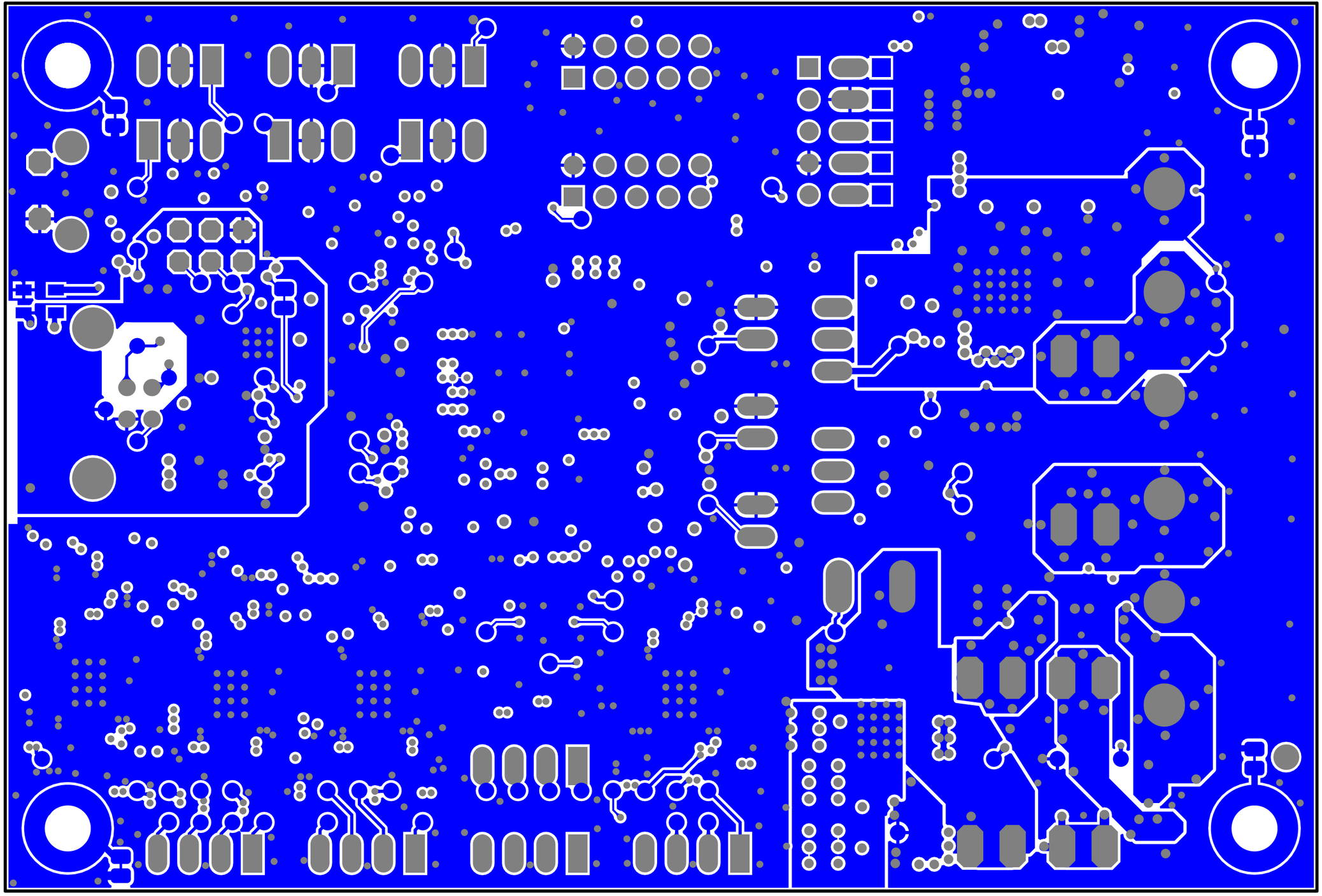


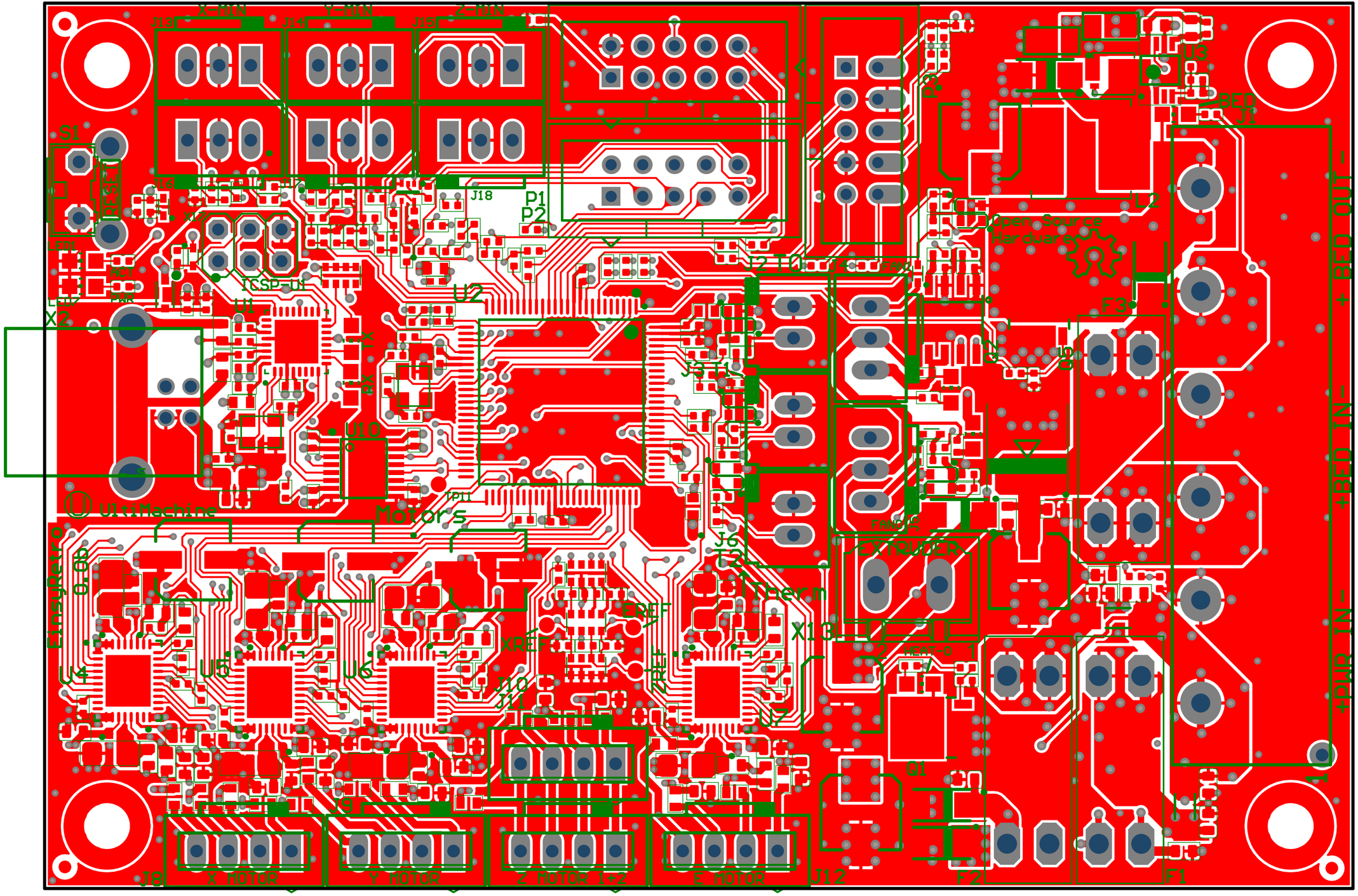


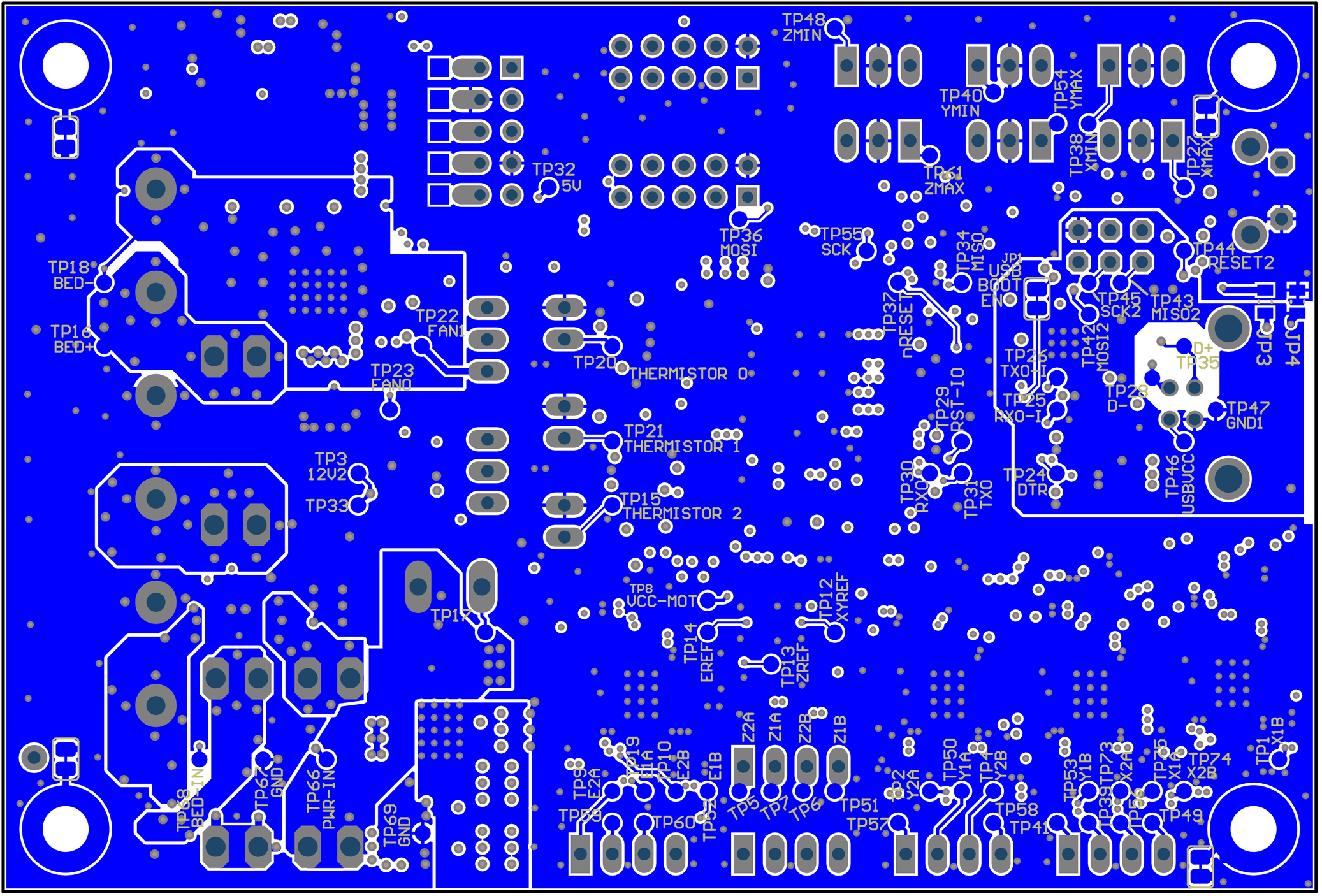
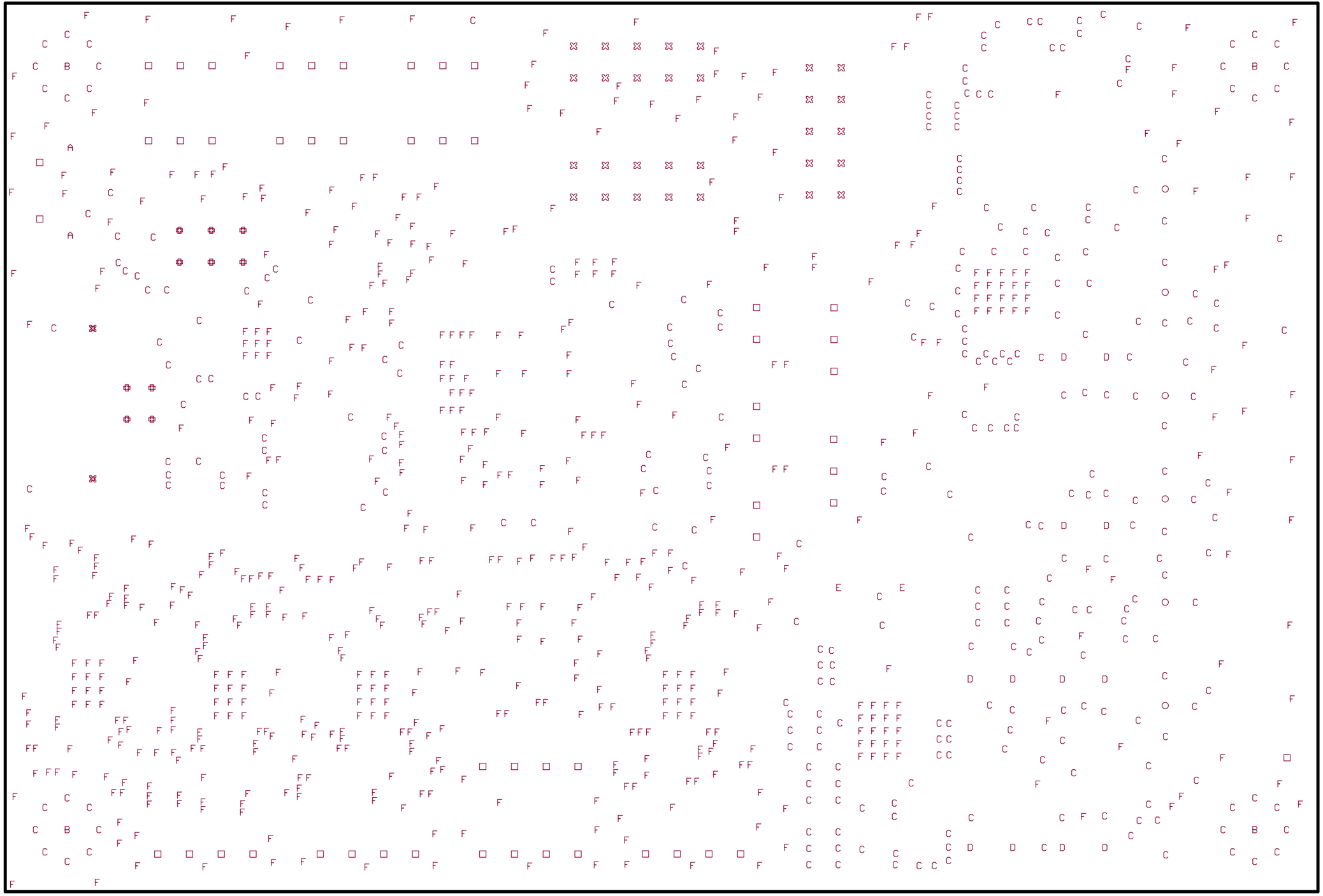









X-MIN
Y-MIN
Z-MIN
J13
J14
J15
J18
S1
RESET
LED1
AM1
PWR
LED2
X2
ICSP-U1
U1
U2
P1
P2
J2
J3
U10
U11
UltiMachine
Motors
J6
Extruder 0 B
U4
U5
U6
U7
EREF
XREF
J10
J11
Therm
X13
HEAT-0
Open Source Hardware
U3
BED
J1
L2
F3
Q1
C1
F2
F1
+BED OUT-
+BED IN-
+PWR IN-
J8
X MOTOR
J9
Y MOTOR
Z MOTOR 1+2
E MOTOR
J12


TP48
ZMIN
TP40
YMIN
TP54
YMAX
TP38
XMIN
TP27
XMAX
TP61
ZMAX
TP32
5V
TP36
MOSI
TP55
SCK
TP34
MISO
JP1
USB
BOOT
EN
TP44
RESET2
TP37
nRESET
TP45
SCK2
TP43
MISO2
TP42
MOSI2
TP26
TXO-I
TP25
RXO-I
TP29
RST-IO
D+
TP35
TP28
D-
TP47
GND1
JP3
JP4
TP18
BED-
TP16
BED+
TP22
FAN1
TP23
FAN0
TP20
THERMISTOR 0
TP21
THERMISTOR 1
TP15
THERMISTOR 2
TP3
12V2
TP33
TP30
RXO
TP31
TXO
TP24
DTR
TP46
USBVCC
TP8
VCC-MOT
TP12
XYREF
TP14
EREF
TP13
ZREF
TP17
TP68
BED-IN
TP67
GND
TP66
PWR-IN
TP69
GND
TP9
E2A
TP19
E1A
TP10
E2B
E1B
Z2A
Z1A
Z2B
Z1B
TP59
TP60
TP52
TP5
TP7
TP6
TP51
TP57
TP2
Y2A
TP50
Y1A
TP4
Y2B
TP58
TP41
TP53
Y1B
TP73
X2A
TP75
X1A
TP74
X2B
TP39
TP56
TP49
TP1
X1B