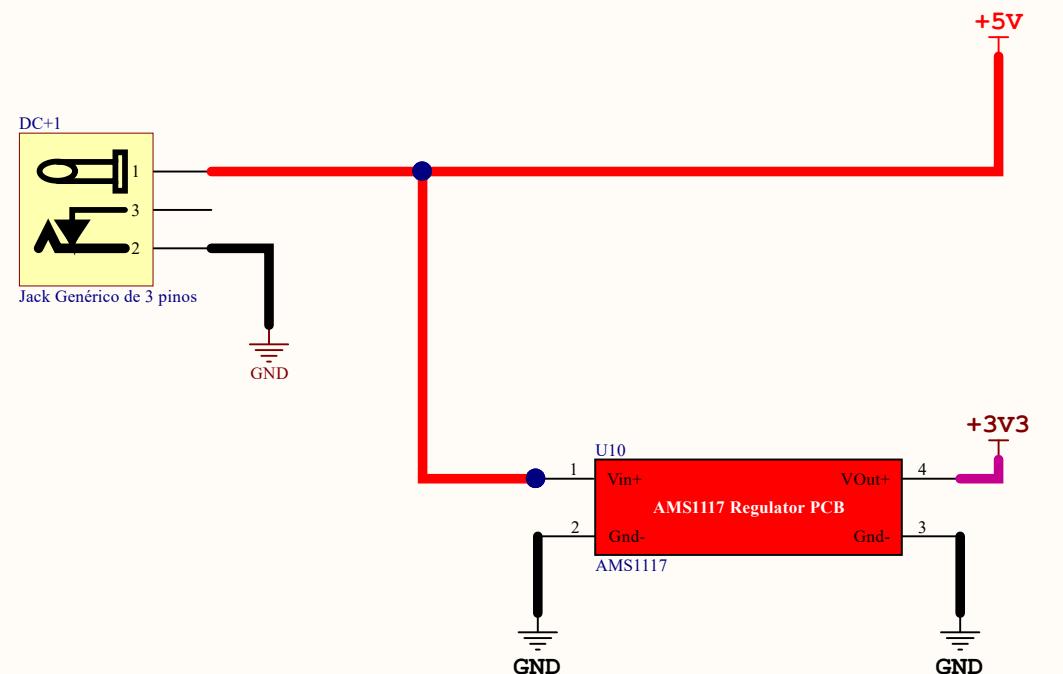
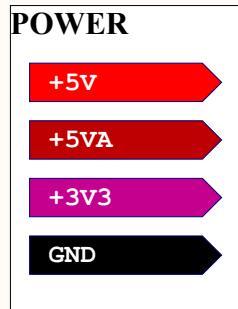


POWER



Title **Tead Aliens 64A Power**

Size: **A4** Number:1 Revision:1

Date: **14/07/2022** Time: **15:55:24** Sheet 1 of 1

File: **C:\ NEPER\ PROJETOS\ NP\ Games\ Game Block\ Eletronica\Game TEAD Aliens 64A\Tead Ali**



TEAD Aliens 64A-2

A

A

B

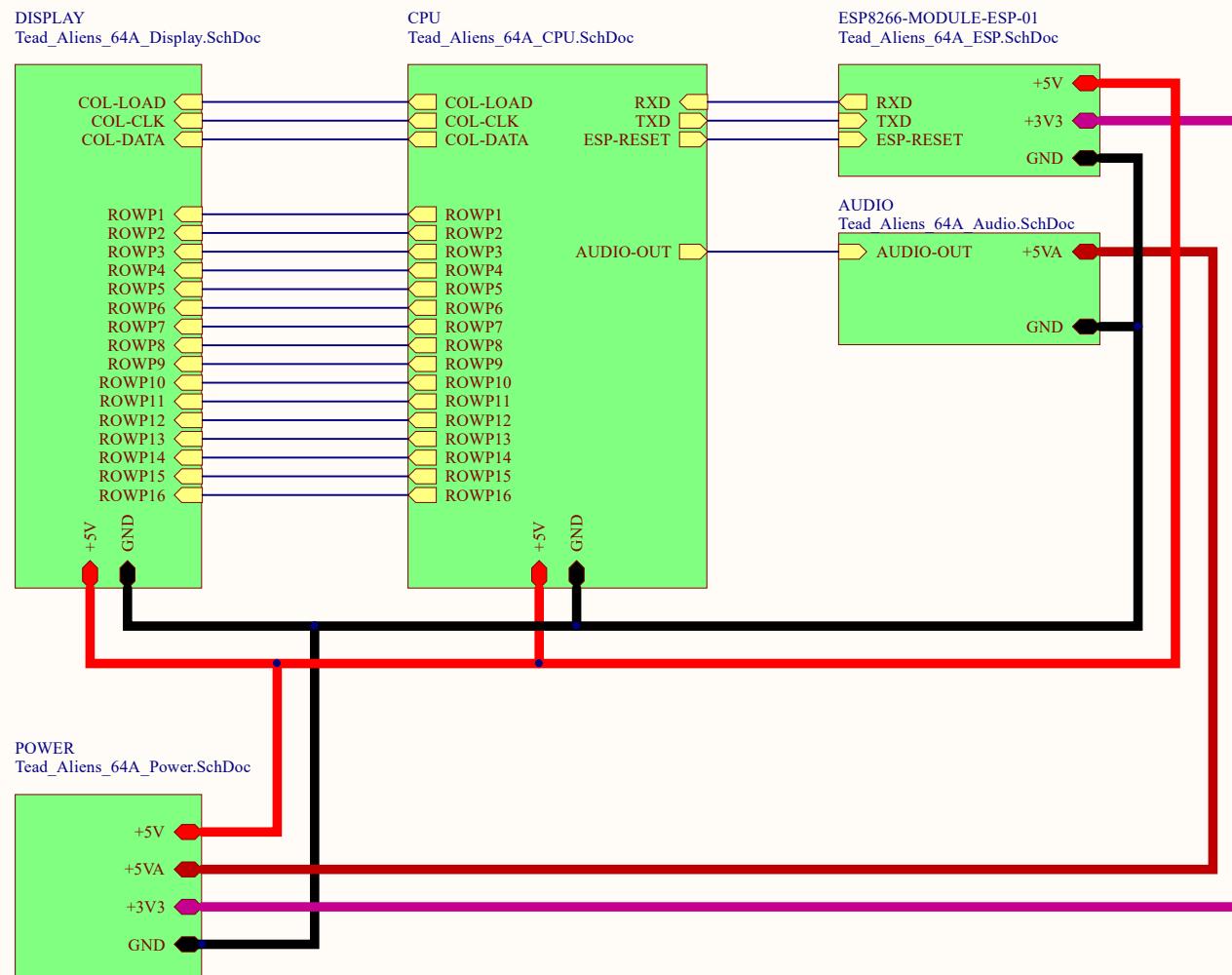
B

C

C

D

D



Title **Tead Aliens on ATmega64A(Main)**

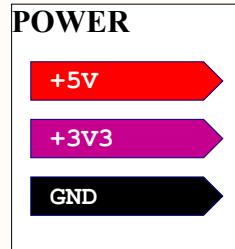
Size: **A4** Number:1 Revision:1

*
Tead Alien Clock
on ATmega64A
AVR Risc microcontroller
displays (8x8) 3x2

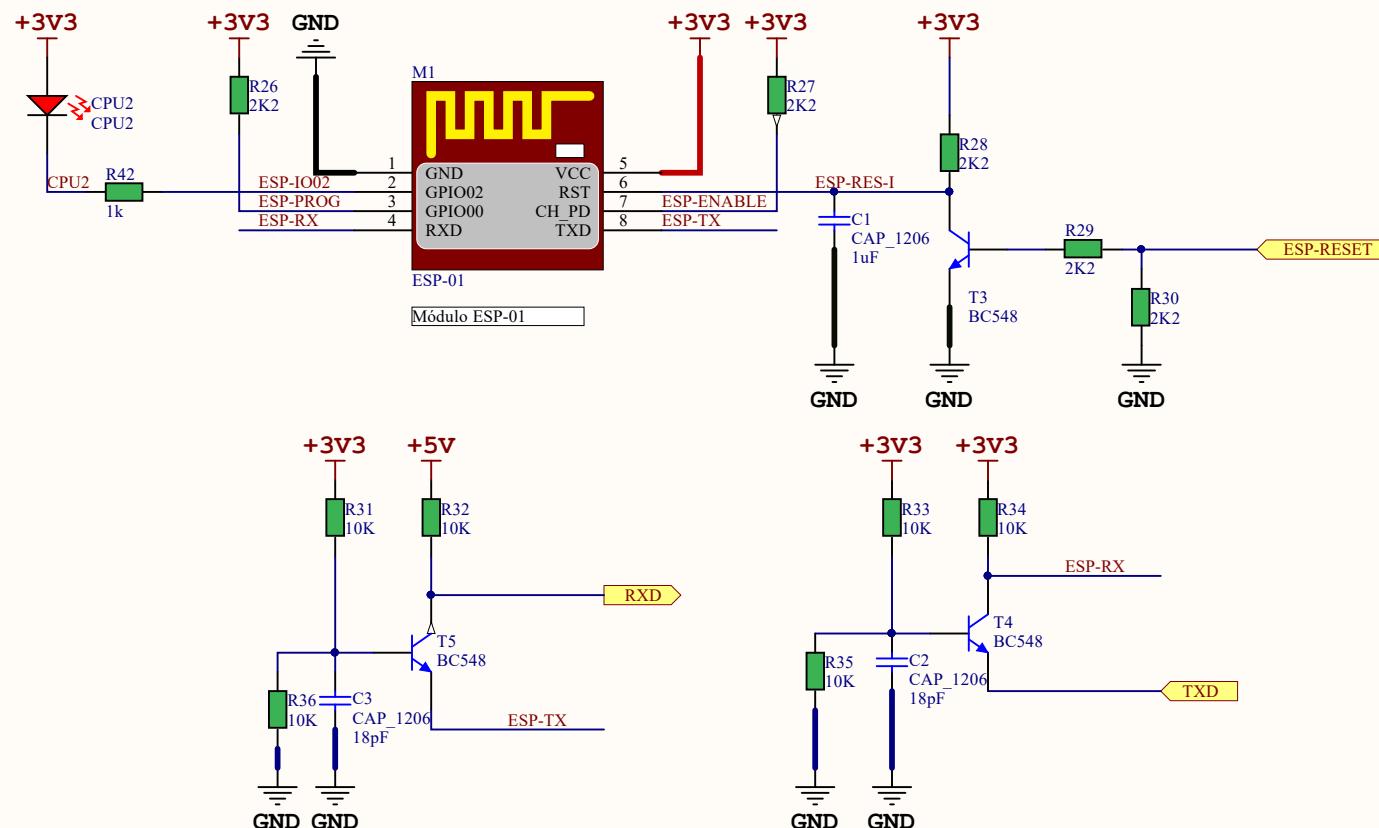
Date: 14/07/2022 Time: 15:55:25 Sheet 1 of 1

File: C:\ NEPER\ PROJETOS\ NP\ Games\ Game Block\ Eletronica\Game TEAD Aliens 64A-2\Tead Alien





ESP8266-ESP-01 CPU-2



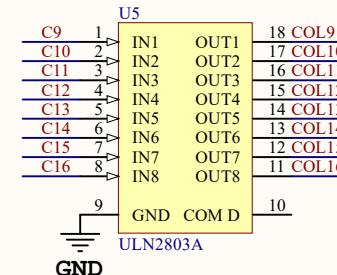
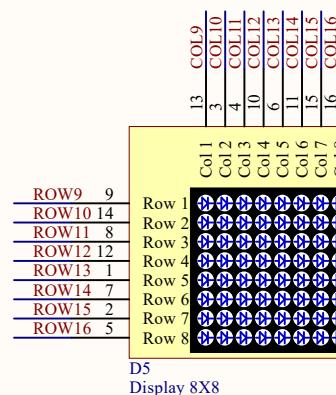
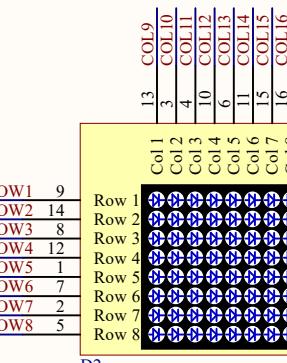
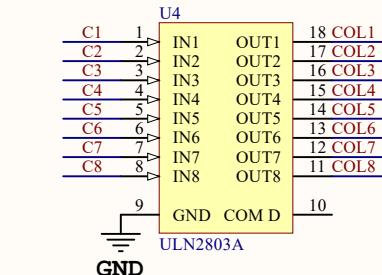
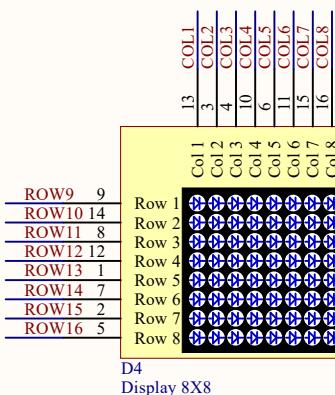
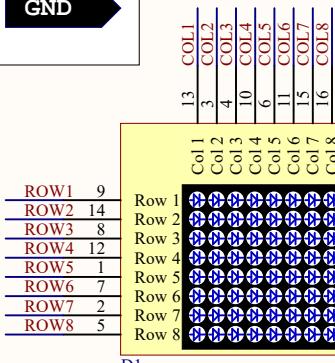
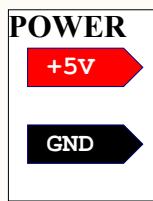
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Size: **A4** Number:1 Revision:1

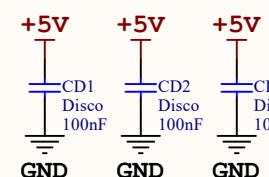
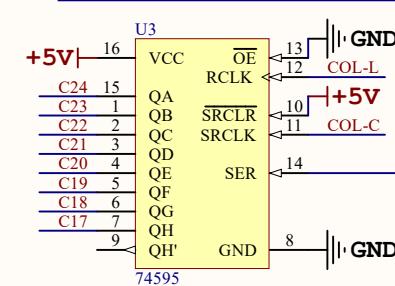
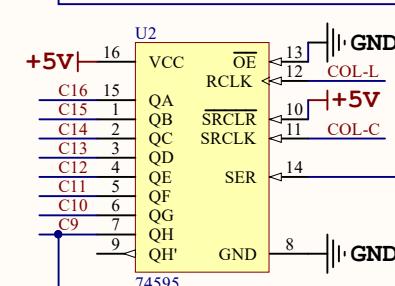
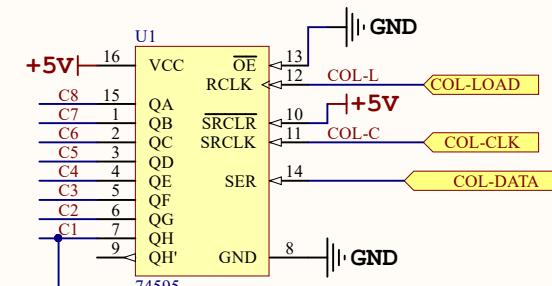
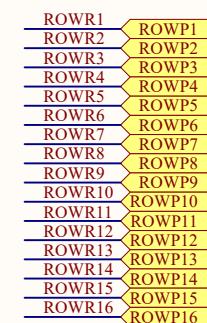
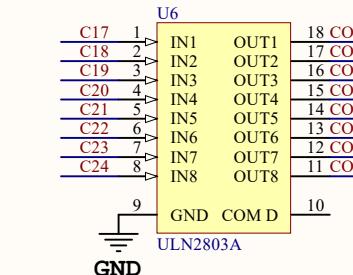
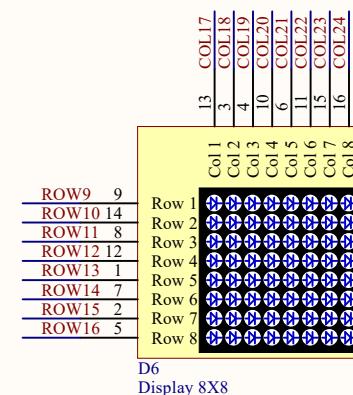
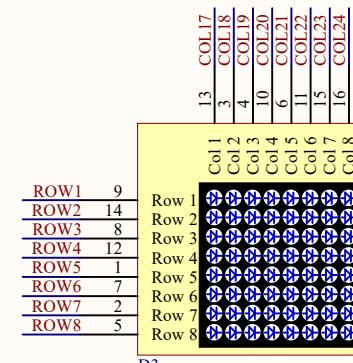
Date: **14/07/2022** Time: **15:55:25** Sheet 1 of 1

File: **C:\NEPER\PROJETOS\NP\Games\Game Block\Electronica\Game TEAD Aliens 64A-2\Tead Alien**





DISPLAY



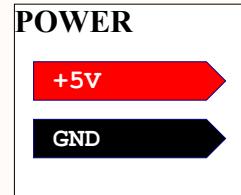
Title **Tead Aliens 64A Display**

Size: A4 Number:Nepermath Revision:1

Date: 14/07/2022 Time: 15:55:26 Sheet 1 of 1

File: C:\ NEPER\ PROJETOS\ NP\ Games\ Game Block\ Eletronica\Game TEAD Aliens 64A-2\Tead Ali

NPe
NeperMath



+5V +5V +5V

AUDIO-OUT

SCK
JOYS-SW
KEY-B
KEY-A
AUDIO-O
TOSC2
TOSC1
RxD
TXD
COL-D-1-8
COL-CLK
COL-LOAD
ESP-RESET

MOSI
MISO
SCL
SDA
SQW

RESET
XTAL2
XTAL1

ATmega64/128A-16AU
ATmega64/128A

CPU-1

PB0 (SS)
PB1 (SCK)
PB2 (MOSI)
PB3 (MISO)
PB4 (OC0)
PB5 (OC1A)
PB6 (OC1B)
PB7 (OC2/OC1C)
TOSC2/PG3
TOSC1/PG4
PD0 (SCL/INT0)
PD1 (SDA/INT1)
PD2 (RXD1/INT2)
PD3 (TXD1/INT3)
PD4 (IC1)
PD5 (XCK1)
PD6 (T1)
PD7 (T2)
PE0 (RXD0/PDI)
PE1 (TXD0/PDO)
PE2 (XCK0/AIN0)
PE3 (OC3A/AIN1)
PE4 (OC3B/INT4)
PE5 (OC3C/INT5)
PE6 (T3/INT6)
PE7 (IC3/INT7)
PG0 (WR)
PG1 (RD)
PG2 (ALE)
RESET
PEN
XTAL2
XTAL1

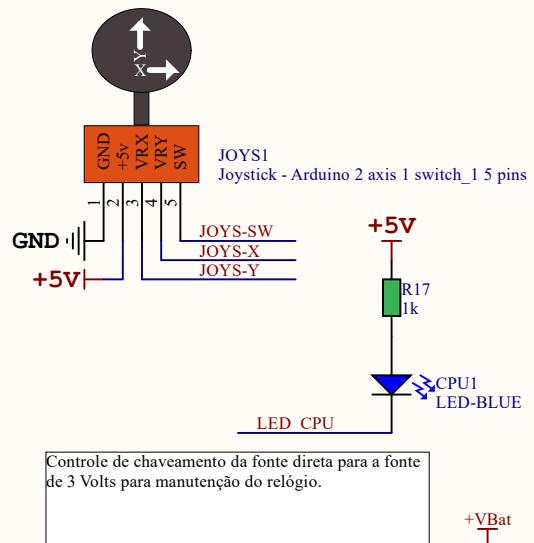
VCC
AVCC
AREF
GND
GND
GND

GND
GND
GND
CD5
100nF
CD7
100nF

+5V
R21
1k
POWER-DET

R22
1k
JOYS-Y
JOYS-X

+VCPU
GND
T1
BC558
R23
4K7
+5V
T2
BD136
R25
220R
GND



+5V
SCL
SDA
SQW
X1
X2
VCC
GND
VBAT
RESET
XTAL2
XTAL1

U8
DS1307

SPI1
RESET
SCK
MISO
MOSI
Male Connector 6 pins
GND

TOSC1
XTAL
32768Hz
X2
XTAL
32768Hz
X1
XTAL2
XTAL
32768Hz
X3
XTAL
32768Hz
CX1 16MHz
CAP_1206
18pF
CX2 1206
CAP_1206
18pF
GND
GND

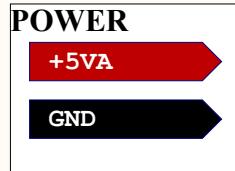
Title **Tead Aliens 64A CPU**

Size: A4 Number:1 Revision:1

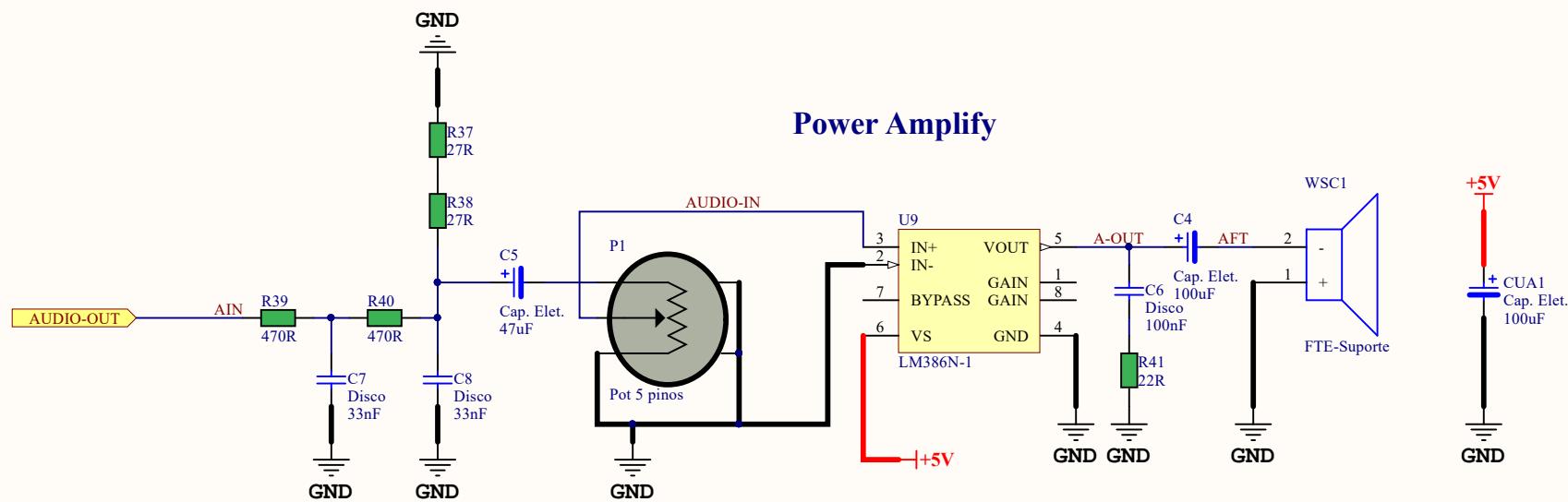
Date: 14/07/2022 Time: 15:55:26 Sheet 1 of 1

File: C:\ NEPER\ PROJETOS\ NP\ Games\ Game Block\ Eletronica\Game TEAD Aliens 64A-2\Tead_Ali

NPe
NeperMath



AUDIO



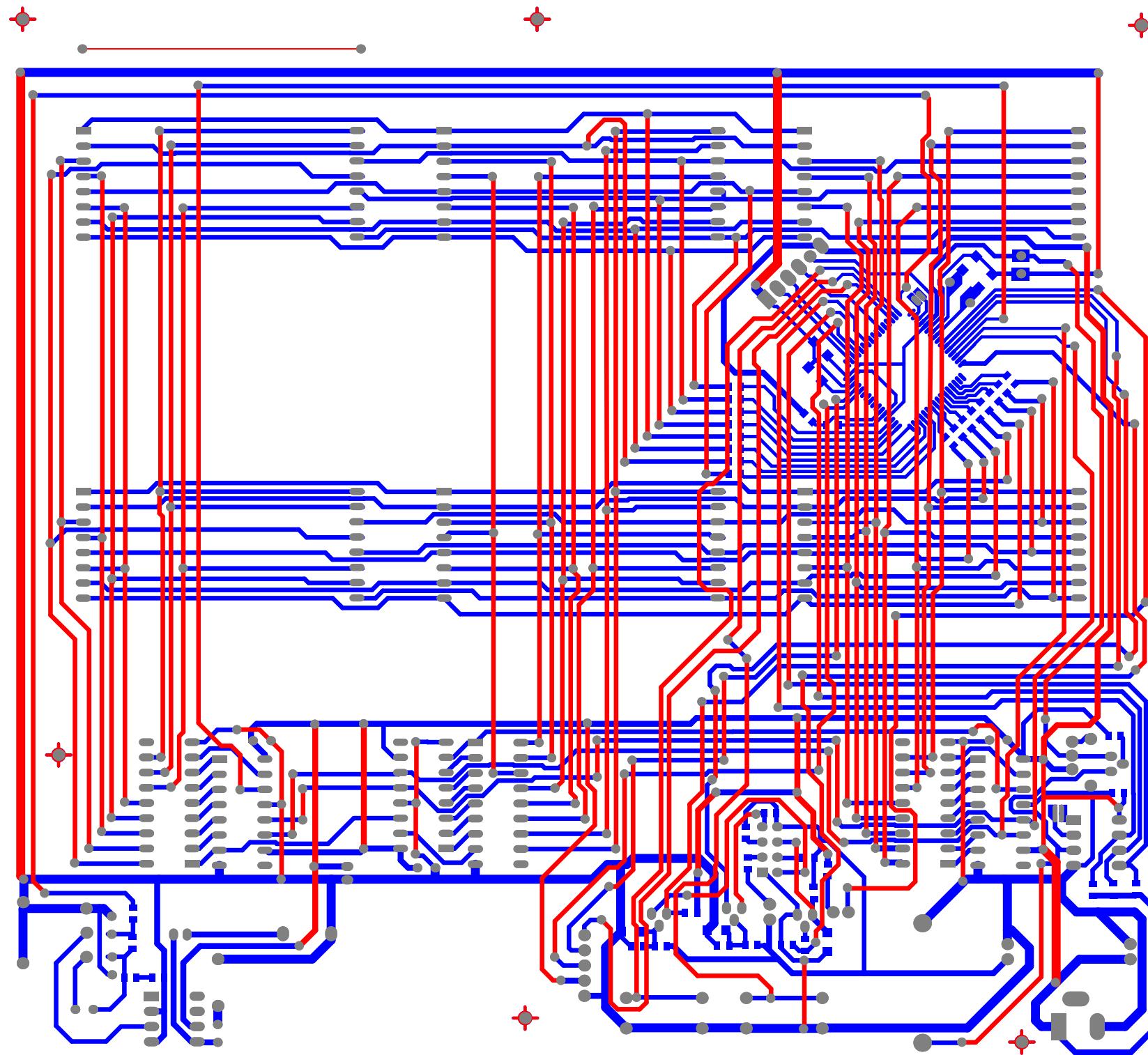
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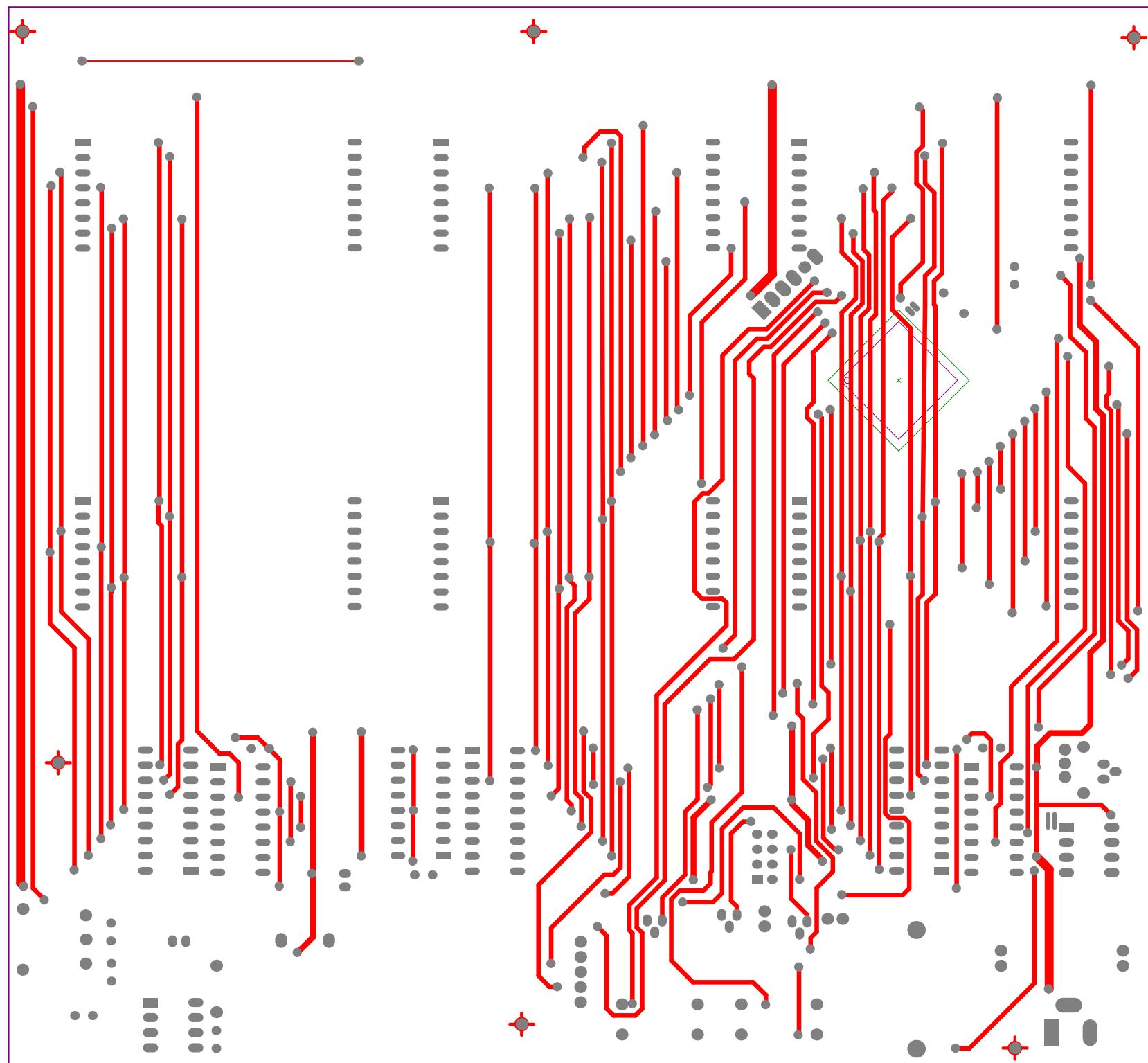
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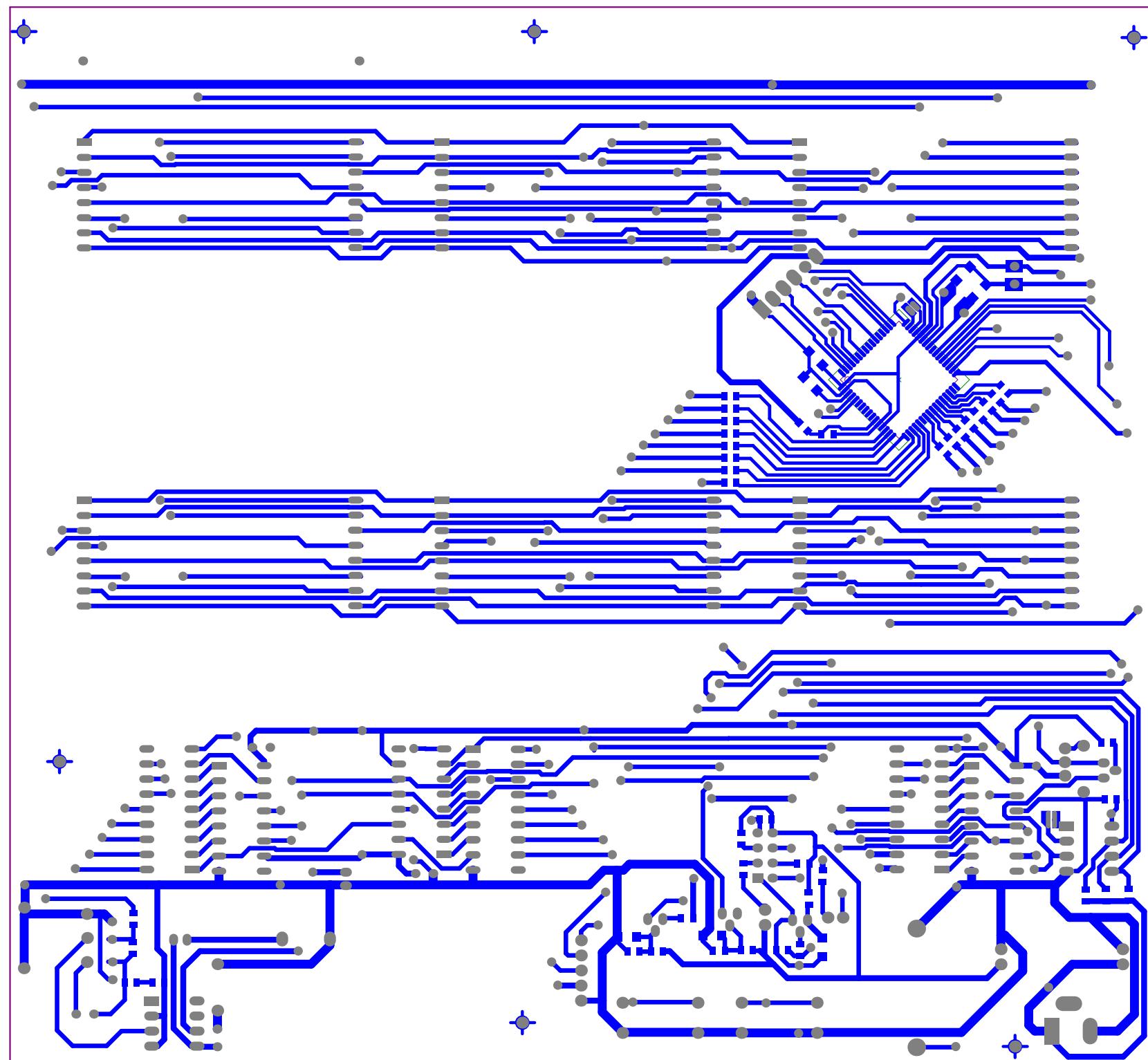
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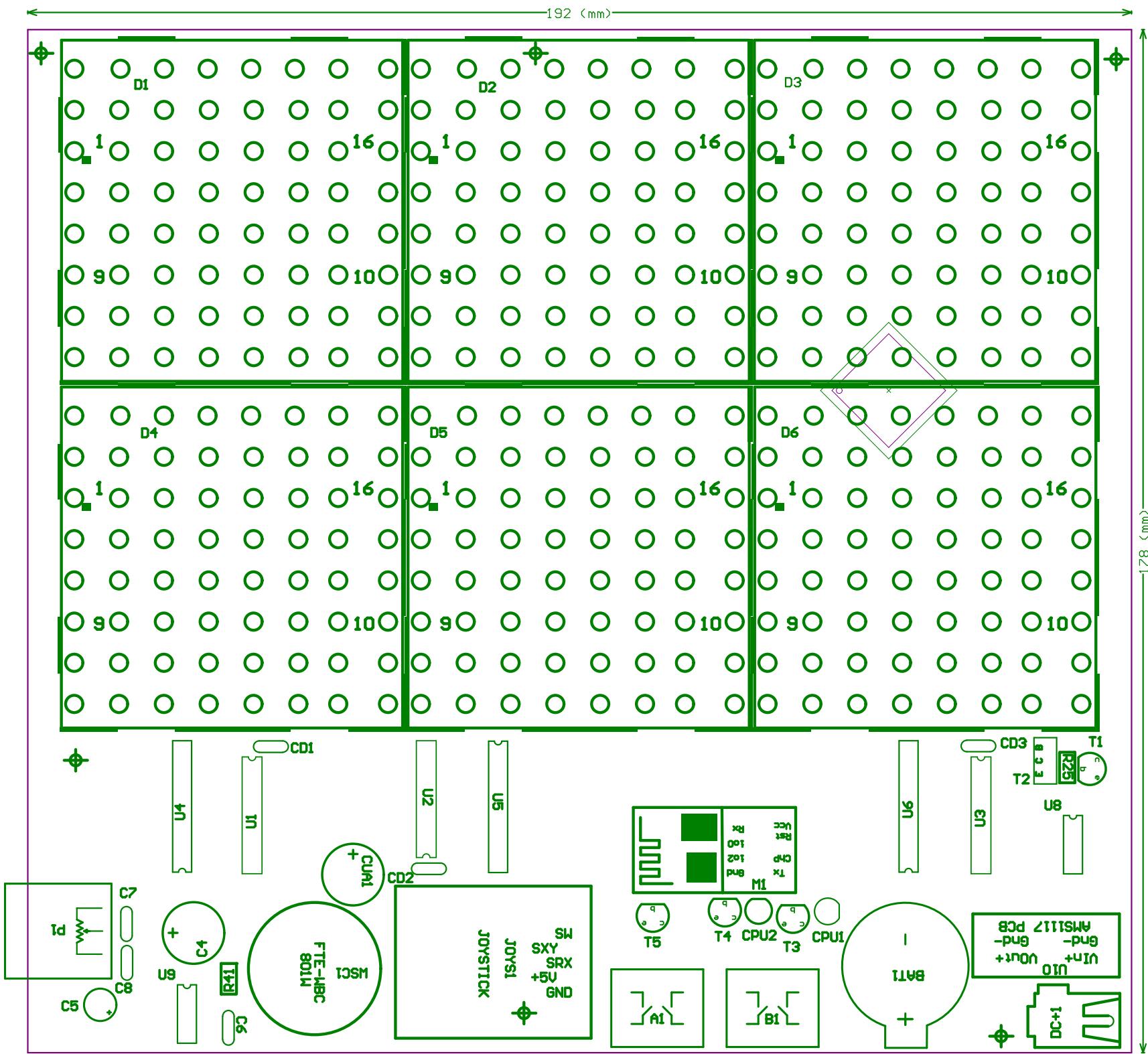
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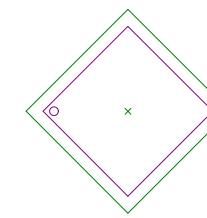


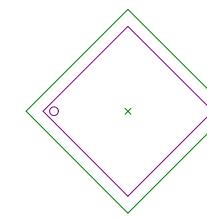


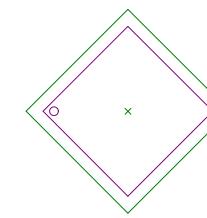


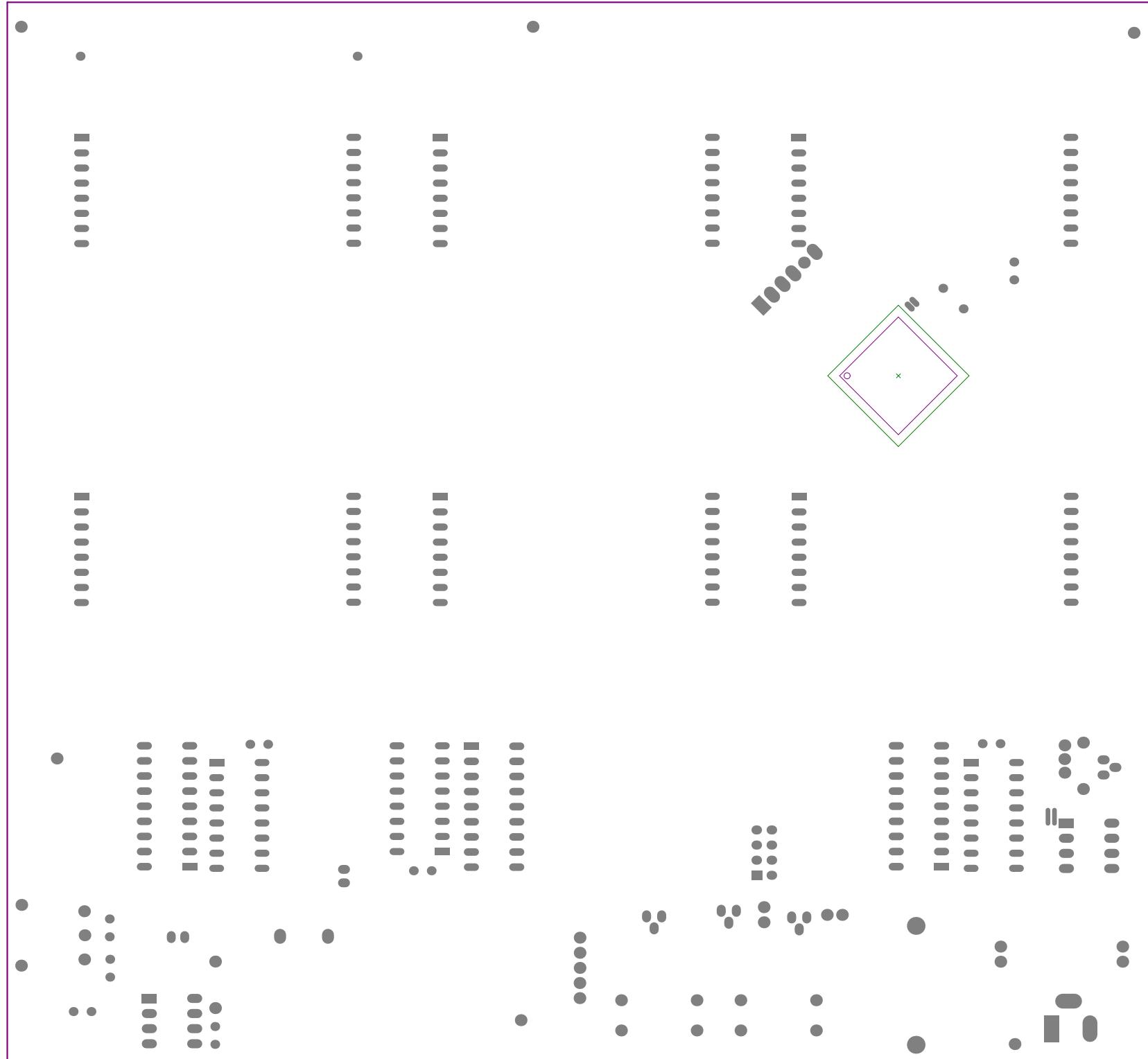
Від МаркаНебель

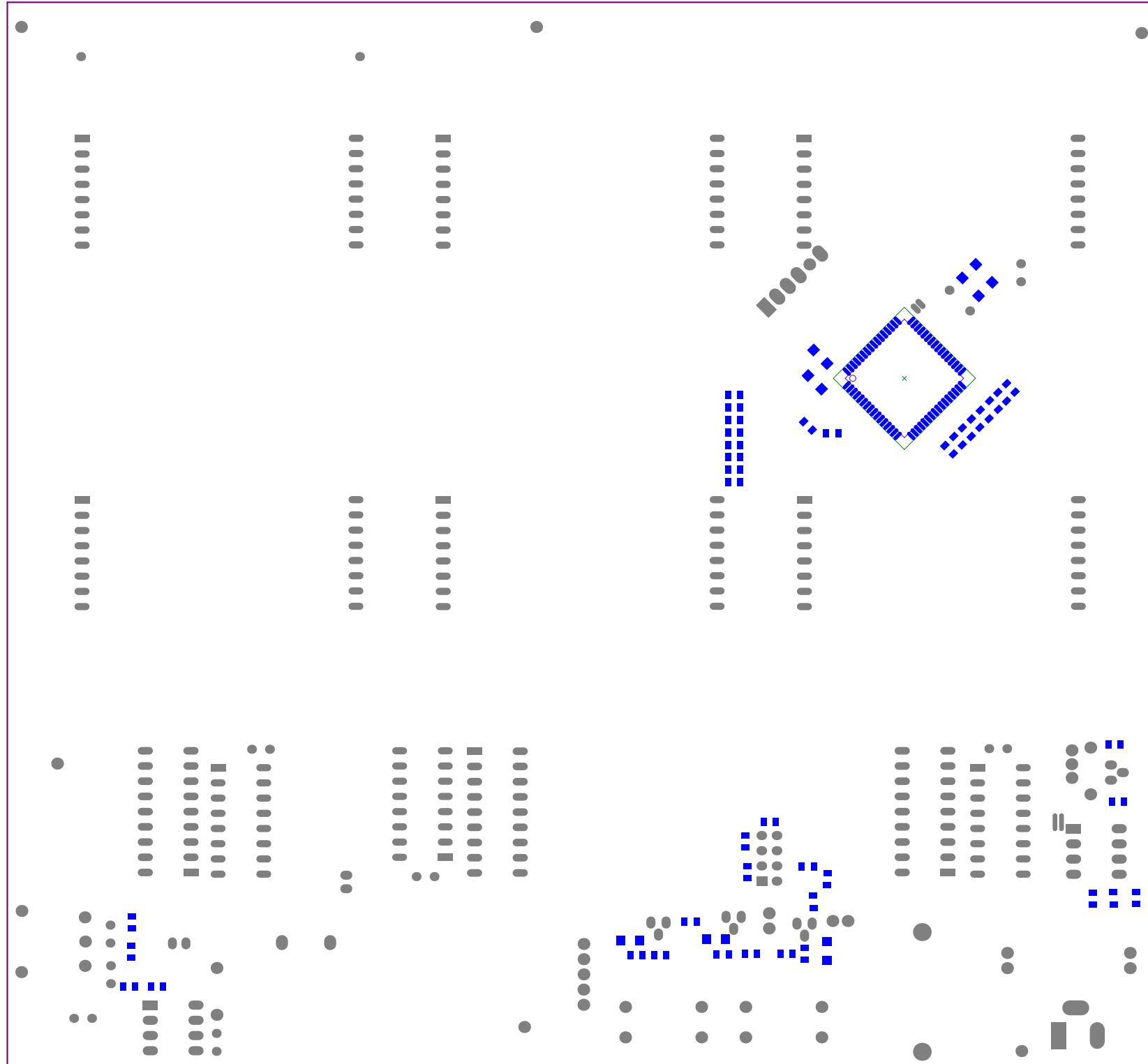


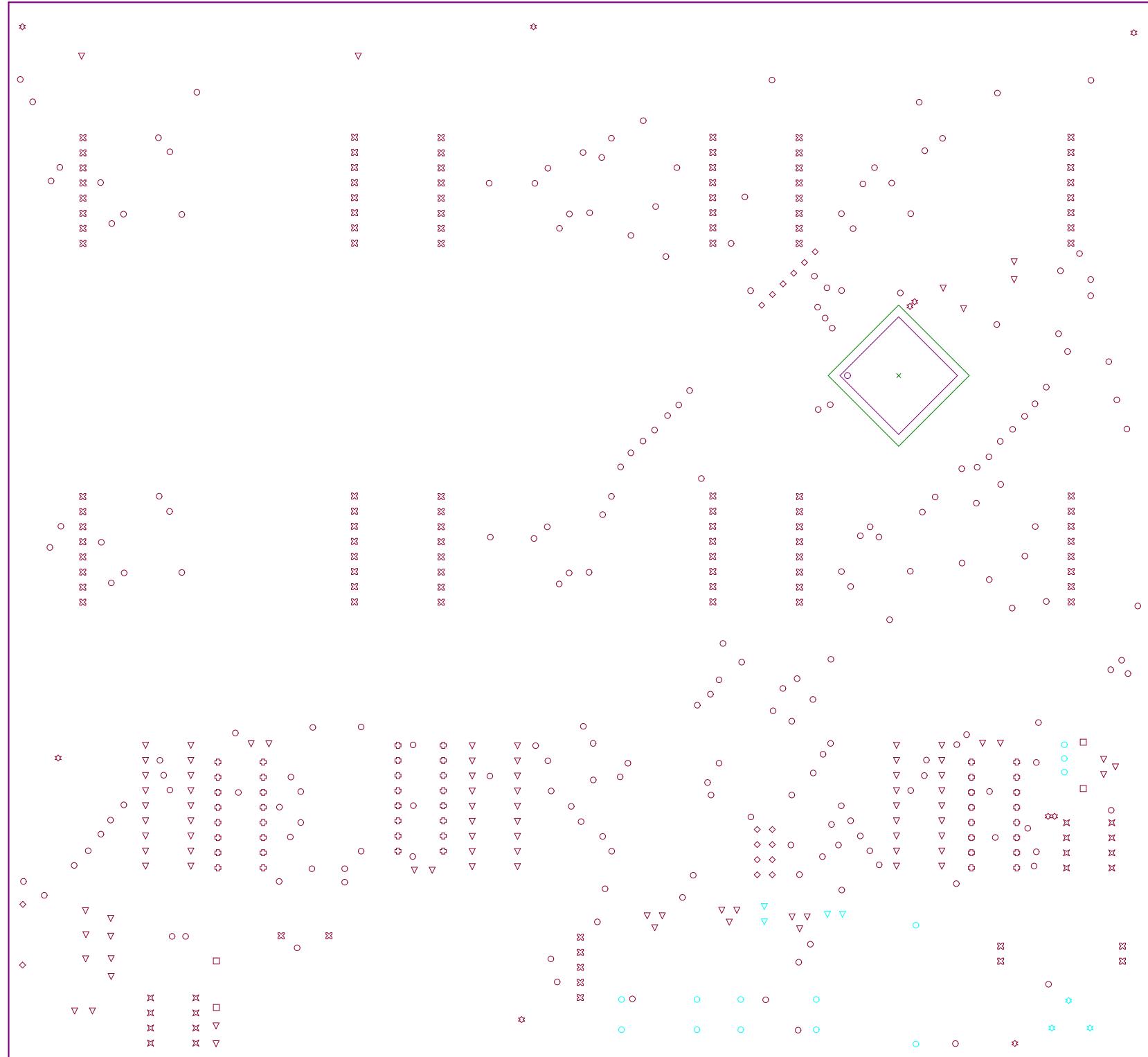


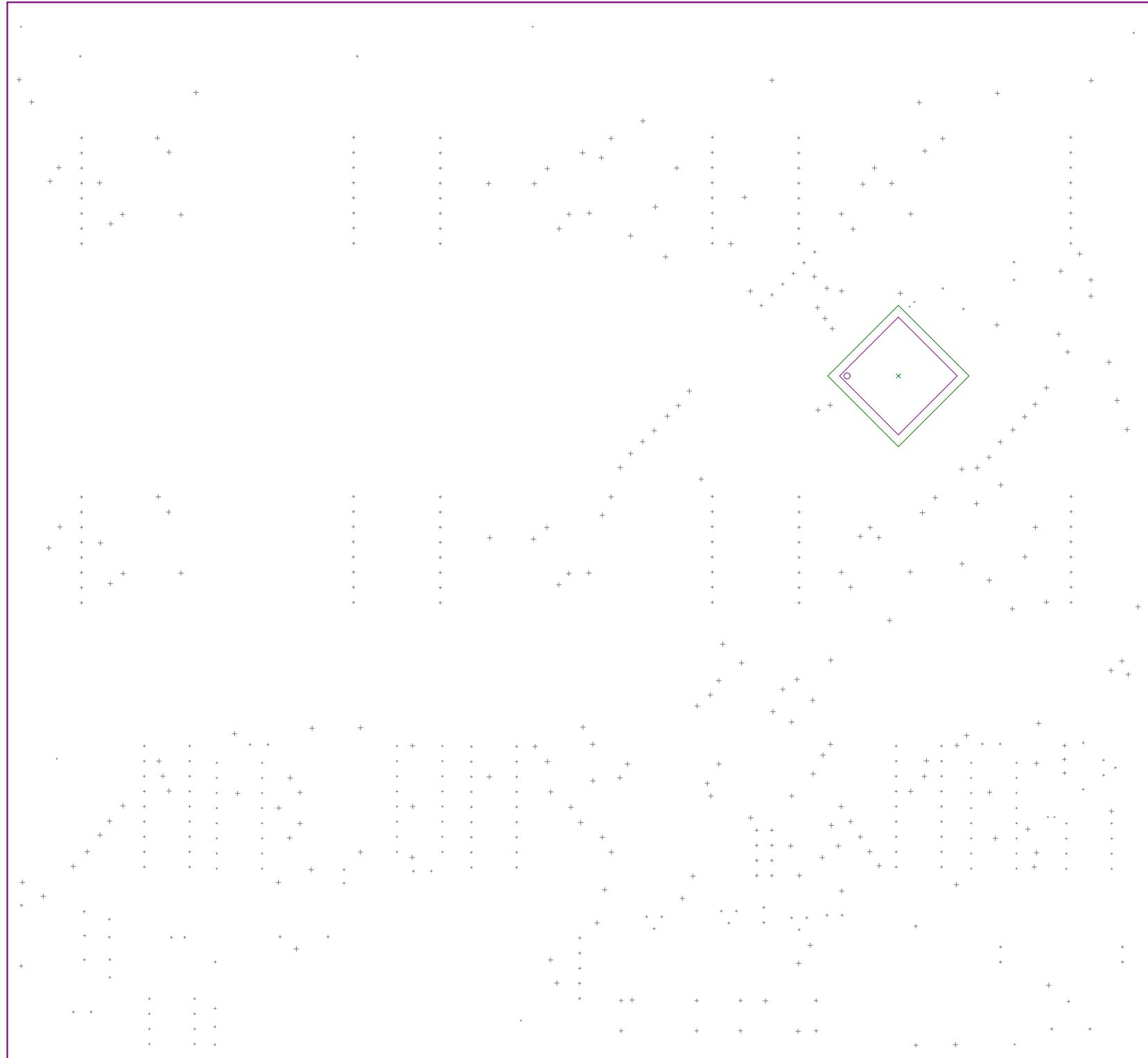












Comment	Description	Designator	Footprint	LibRef	Quantity
SW-PBST 4 Pins	SW-PBST 4 Pins	A1, B1	SW-PBST 4 PINS - B3F	SW-PBST 4 Pins SKHH	2
Bat Soquete	Bat 3.6V	BAT1	Batt Sup CR2025	Bat 3.6v	1
CAP_1206	SMD Capacitor 1206 size CX2	C1, C2, C3, CD5, CD7, CX	CAP_1206	CAP_1206	7
Cap. Elet.	Capacitor Radial Eletrolitico	G4, CUA1	CAP_RADIAL_2_10_16	CAP_RADIAL_ELETROLITICO	2
Cap. Elet.	Capacitor Radial Eletrolitico	G5, CD4	CAP ELE RAD 11mm H	CAP_RADIAL_ELETROLITICO	2
Disco	SMD Capacitor 1210 size	C6, C7, C8, CD1, CD2, CD	CAP CER DISK 3MM	CAP_DISCO	6
LED-BLUE	LED BLUE	CPU1	LED BLUE 3MM	LED-BLUE	1
CPU2	LED RED	CPU2	LED Red 3mm	LED-RED	1
Display 8X8	Display Dot LED 8x8 60mm X 60 mm	D1, D2, D3, D4, D5, D6	DISPLAY_2088BS_DIP_2X3X 60 mm	Display 2088BS 8x8 60mm	6
Jack Genérico d8 pinos	Jack Genérico d8 pinos	DC+1	Jack P4	Jack Genérico d8 pinos	1
Joystick - Arduino Z axis switch_1 5 pins	Arduino Joystick Z axis switch 5 pins	JOYS1	JOYSTICK ARDUINO 5 PIN 0 GRAUS	Joystick - Arduino Z axis switch_1 5 pins	1
ESP-01	ESP8266 ESP-01 Module	M1	ESP-8266-ESP-01	ESP-01 Module	1
Pot 5 pinos	Potenciometer 5 pins	P1	POT CHINA MICRO	POT 5 pinos china	1
Resistor Generic	Generic Resistor	R1, R2, R3, R4, R5, R6, R7 R8, R9, R10, R11, R12, R1 R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R42	RES_0805	Resistor Generic	40
Resistor Generic	Generic Resistor	R25, R41	RES 300 CR25	Resistor Generic	2
Male Connector 6 pins	Male Connector 6 pins	SPI1	BPSC-6	Male Con 6 Pin	1
Transistor	General Bipolar Transistor NPN	T1, T3, T4, T5	TO-92 - BIG	I-PNP, I-NPN, I-NPN, I-	4
Transistor	General Bipolar Transistor NPN	T2	TO126	T-PNP	1
74595	74595 Generico L,H,LC,HC,F,LS	U1, U2, U3	DIP16	74595 Generico L,H,HC,F,LS	3
ULN2803A	Eight Darlington Array	U4, U5, U6	DIP18	ULN2803A	3
ATmega64/128A-16AU	8-Bit AVR Microcontroller with 128K Bytes of In-System Programmable Flash Memory	U7	64A_L	ATmega128A-16AU	1
DS1307	Real Time Clock	U8	DIP8	RTC	1
LM386N-1	Low Voltage Audio Power Amplifier	U9	DIP8	LM386N-1	1
AMS1117	AMS1117 REGULATOR PO	B10	ANS1117_Reg_Pcb	AMS1117	1
FTE-Suporte	FTE-WBC-8 OHM 23mm 4.5mm	WSC1	FTE-WBC-8OHM-TW- 23mm	FTE-WBC 8 OHM 23mm 4.5mm	1
XTAL	Crystal Oscillator	X1	XTAL HC49-4H	XTAL	1
XTAL	Crystal Oscillator	X2, X3	XTAL CILINDRIC DEITADO XTAL		2