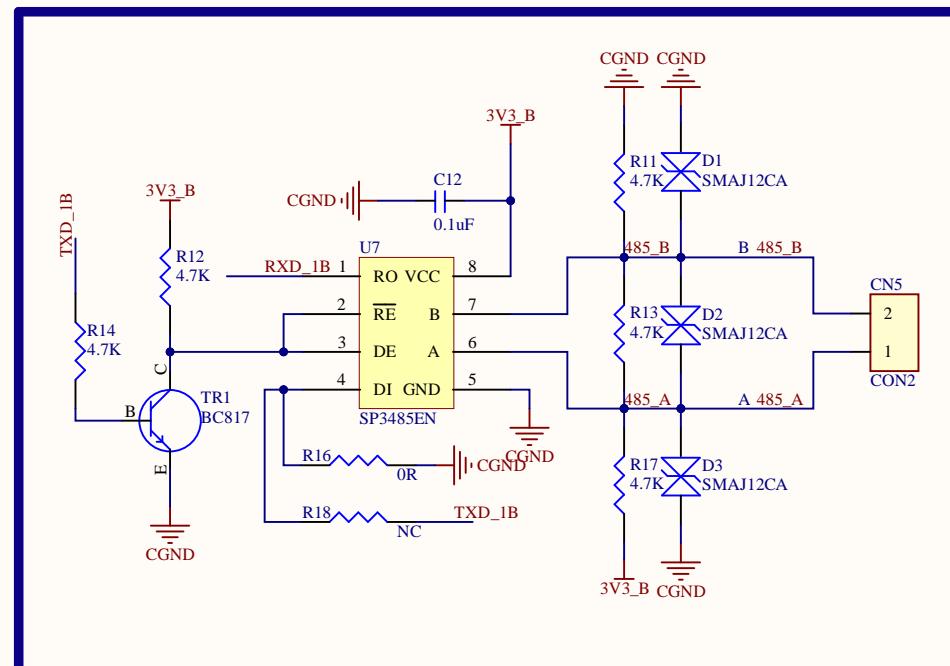
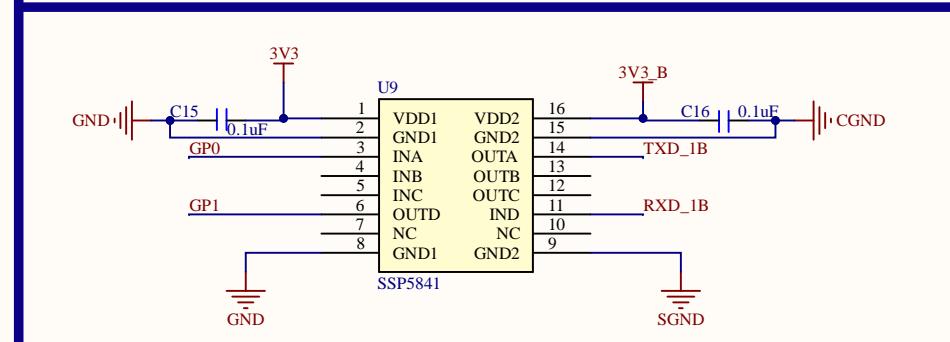


IoT-Pi 4 CH			
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Date: 30-09-2022	Time: 14:42:50	DrawnBy: Ruby Adhana	Cannot open file C:\Users\DEEPAK\Downloads\SB logo.png. File does not

A



B



C

D

IoT-Pi 4 CH

Size: A4	Revision: V1.0	Sheet: 2/4	SB Component Ltd.
Date: 30-09-2022	Time: 14:42:50	DrawnBy: Ruby Adhana	Kemp House, 152-160, London EC1V 2NX.

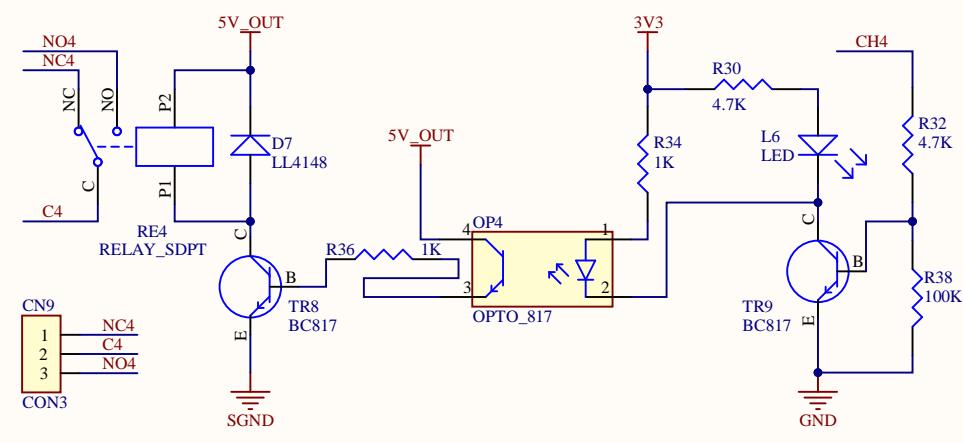
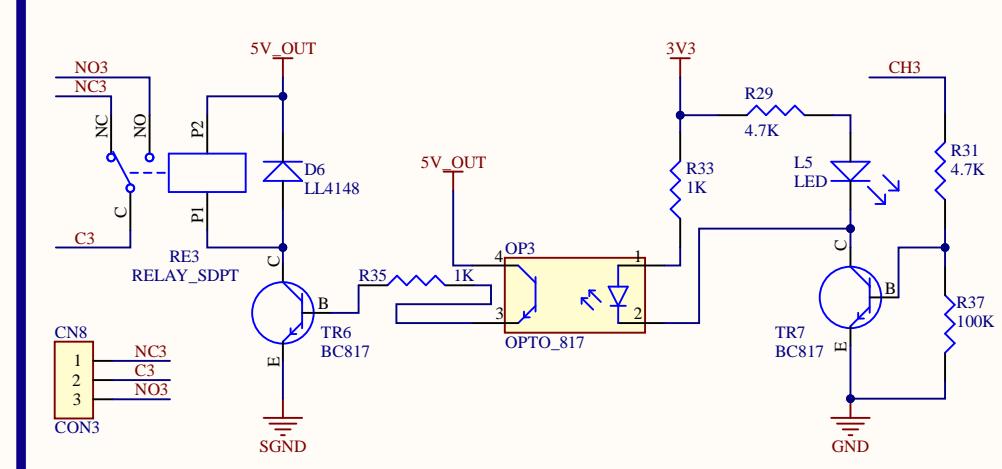
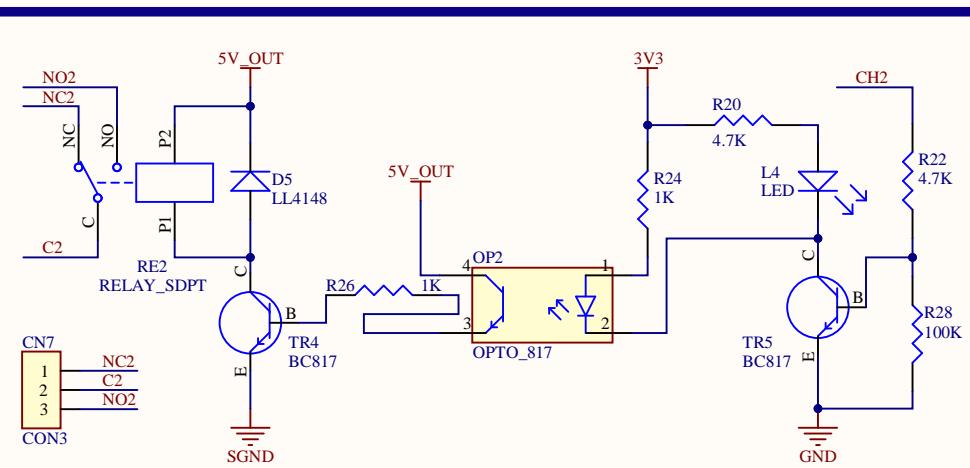
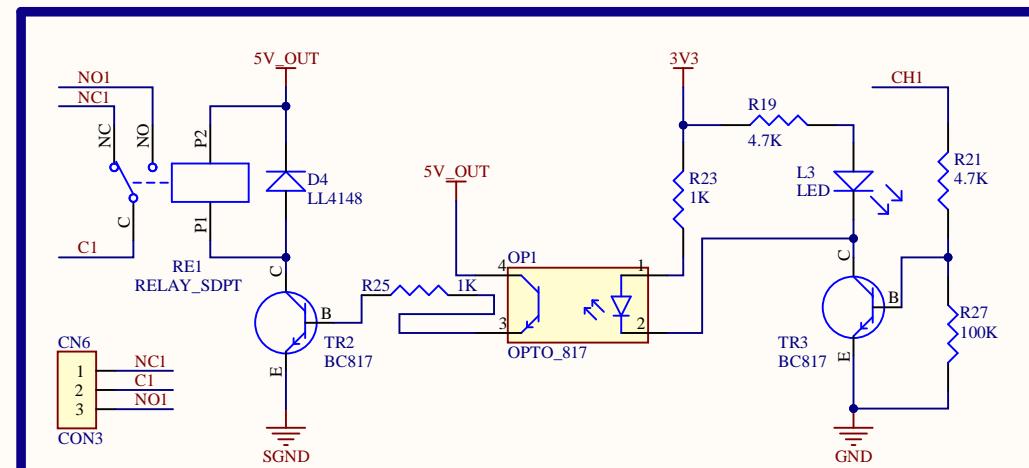
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IoT-Pi 4 CH

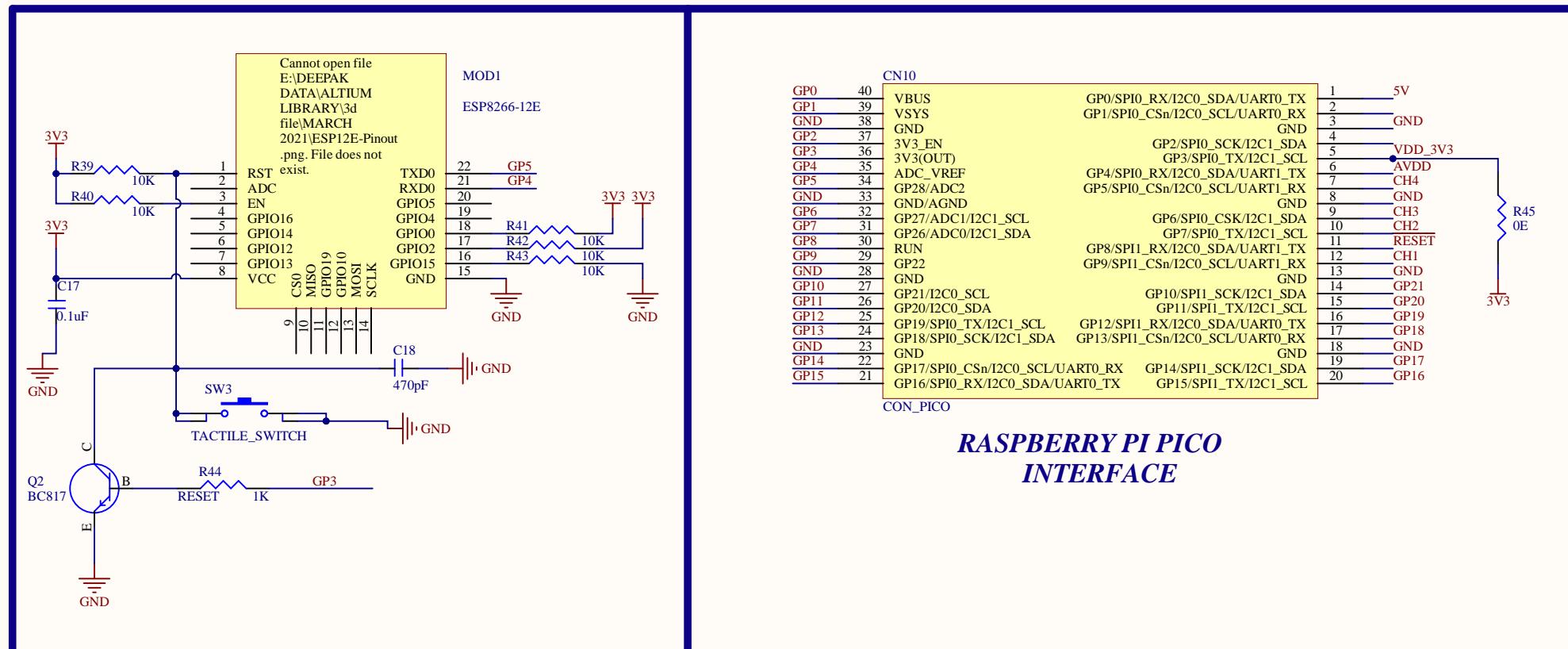
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2

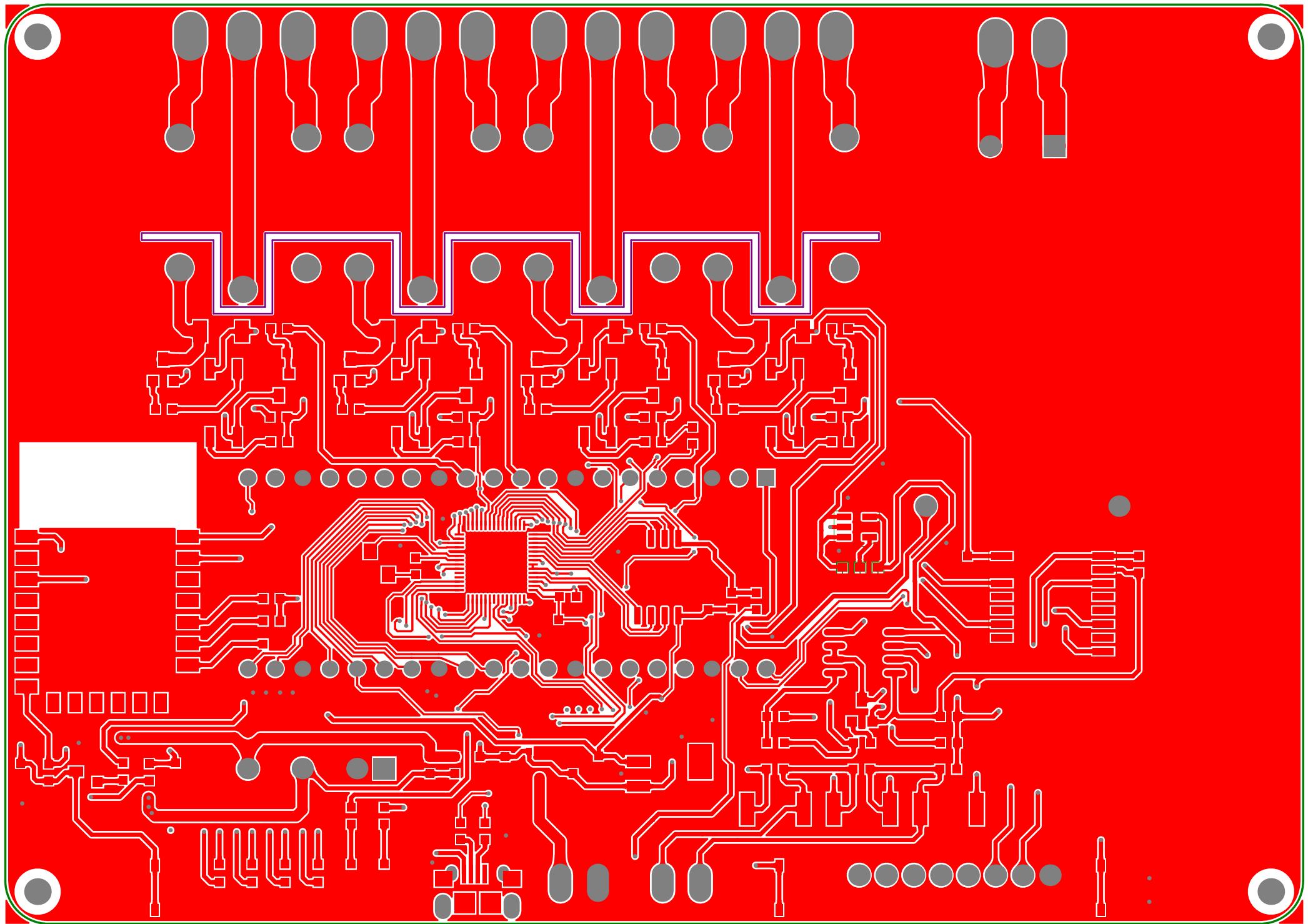
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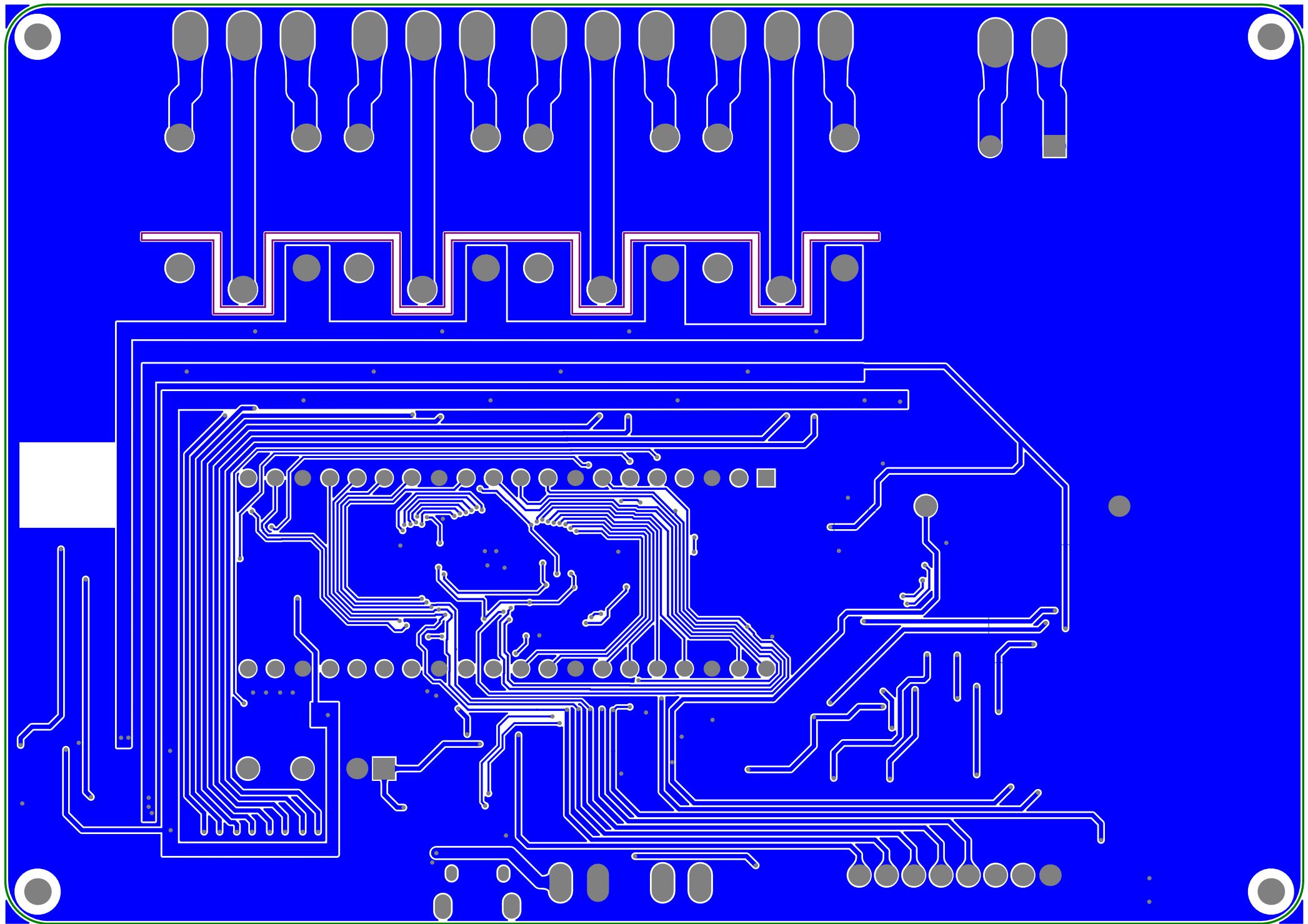
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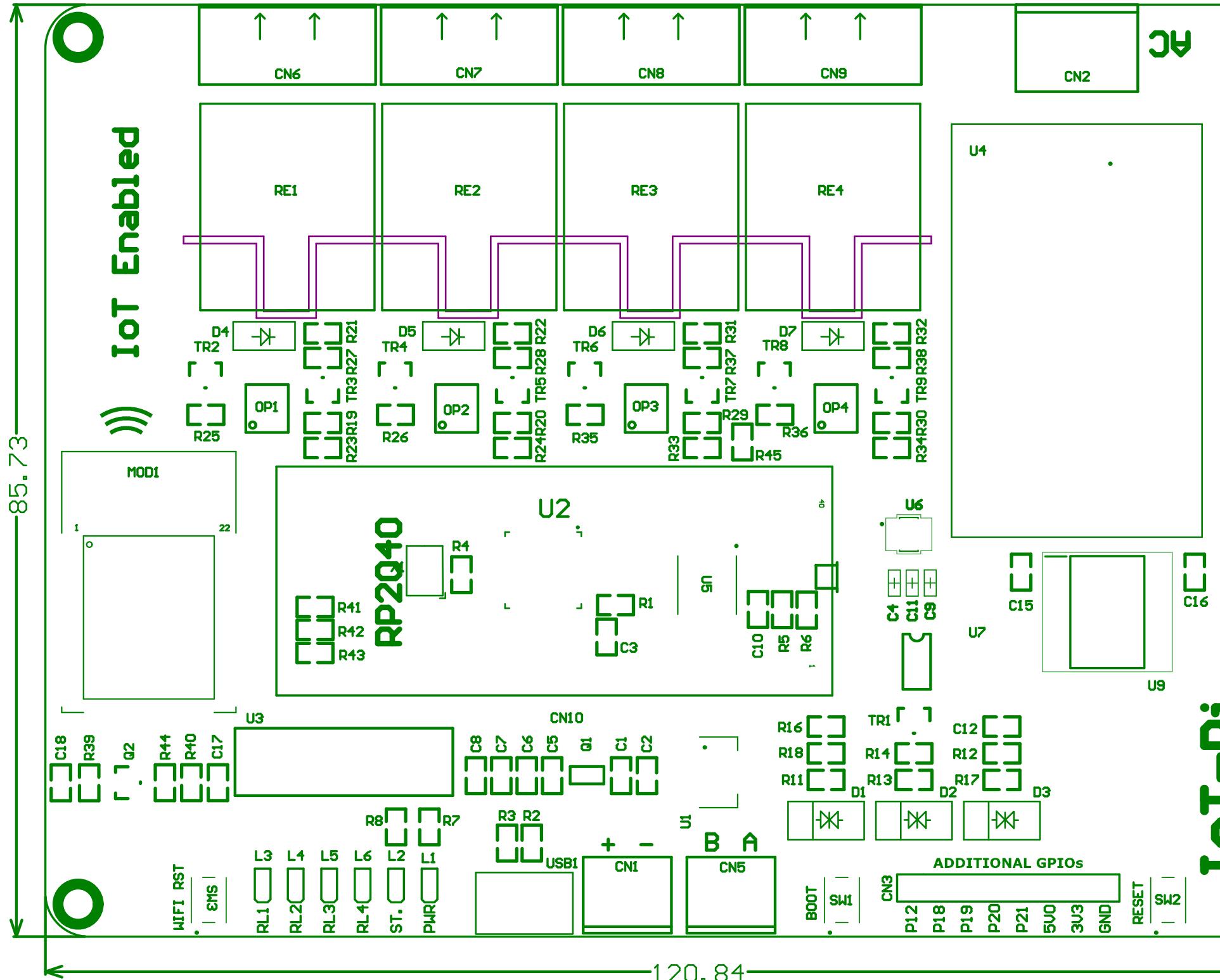
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IoT-Pi Industrial IoT Board Based on RP2040

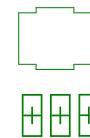


je-Tot

Board Tot Board



On Board On Board



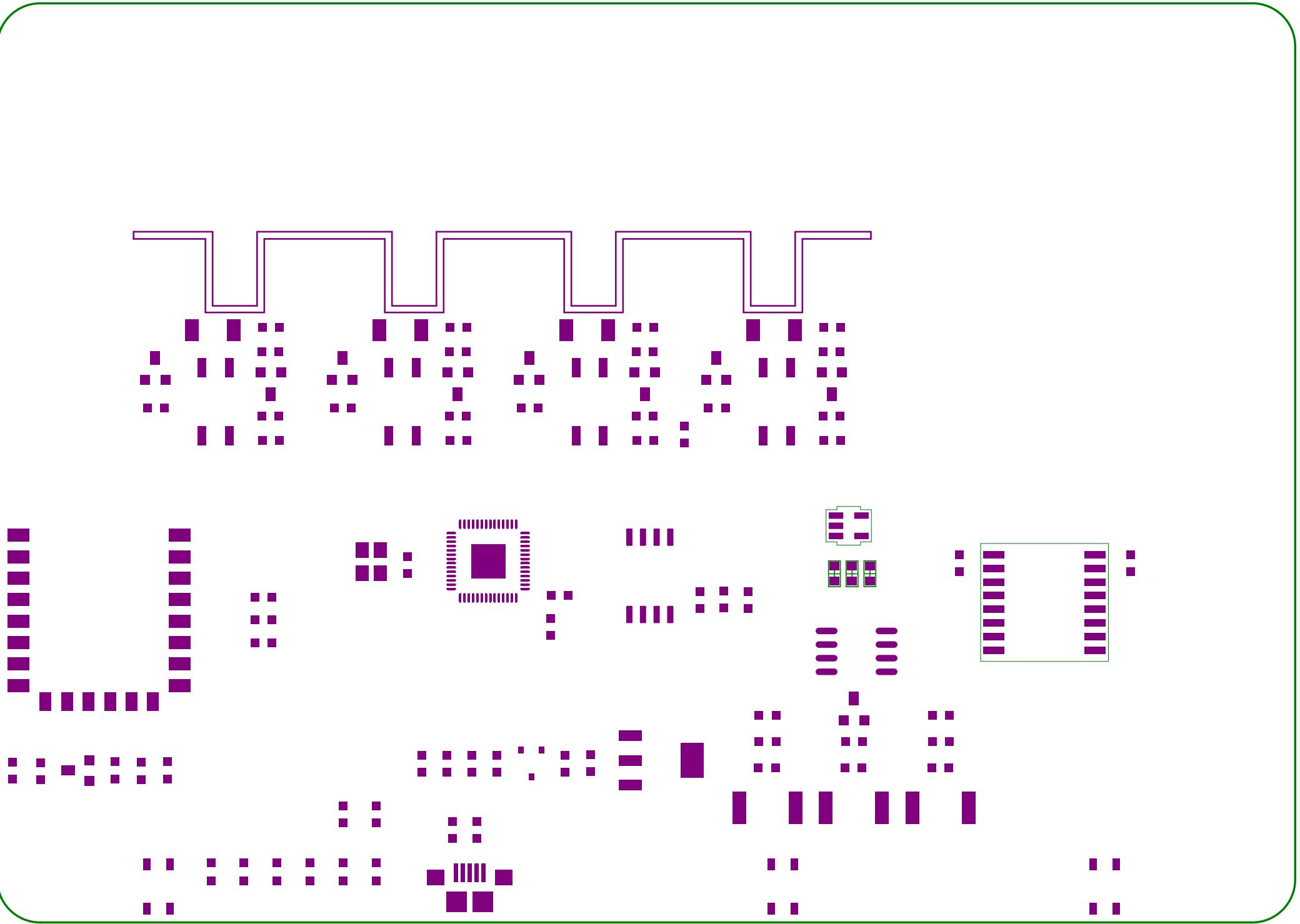
Components
We Make Things Intelligent

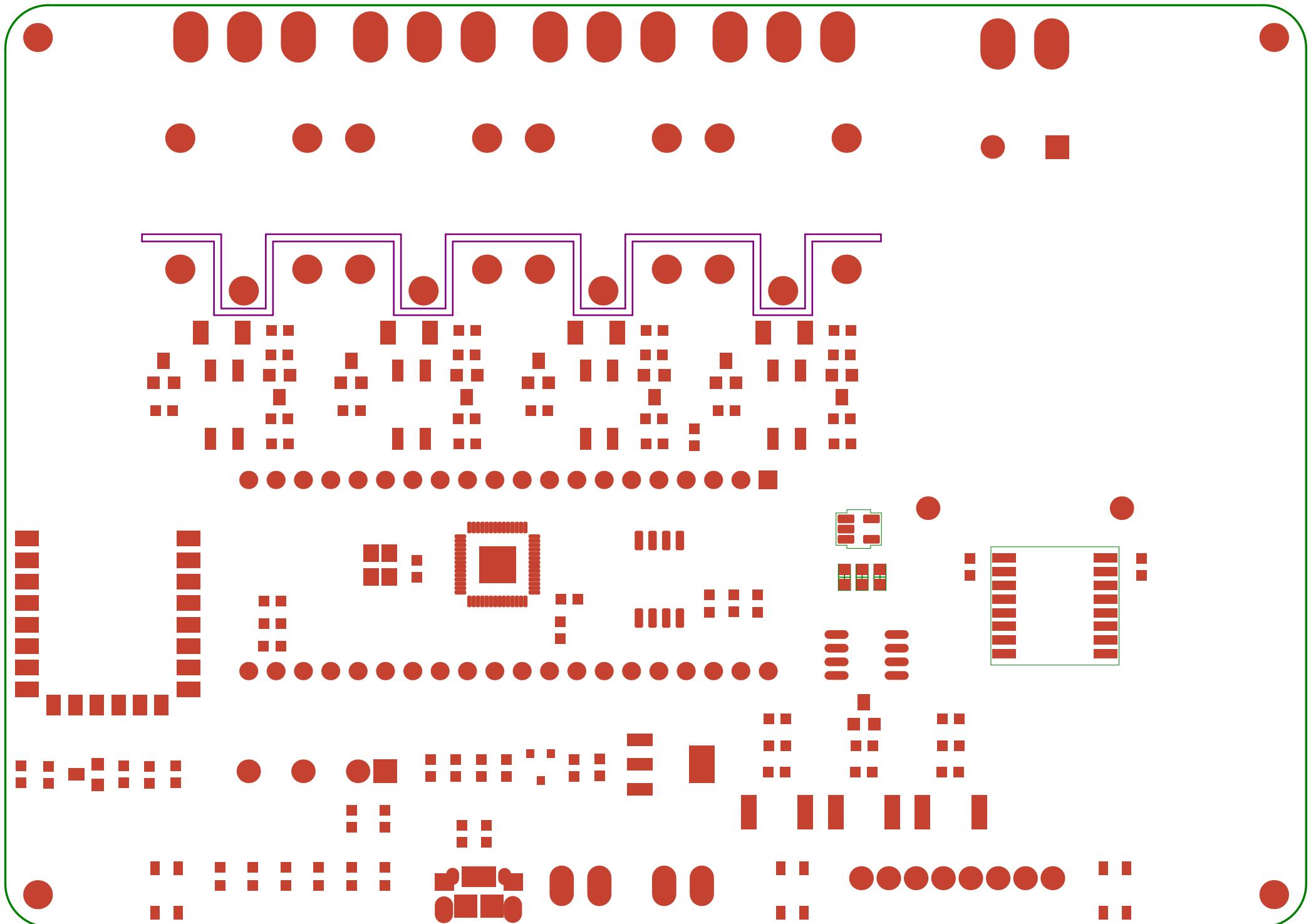


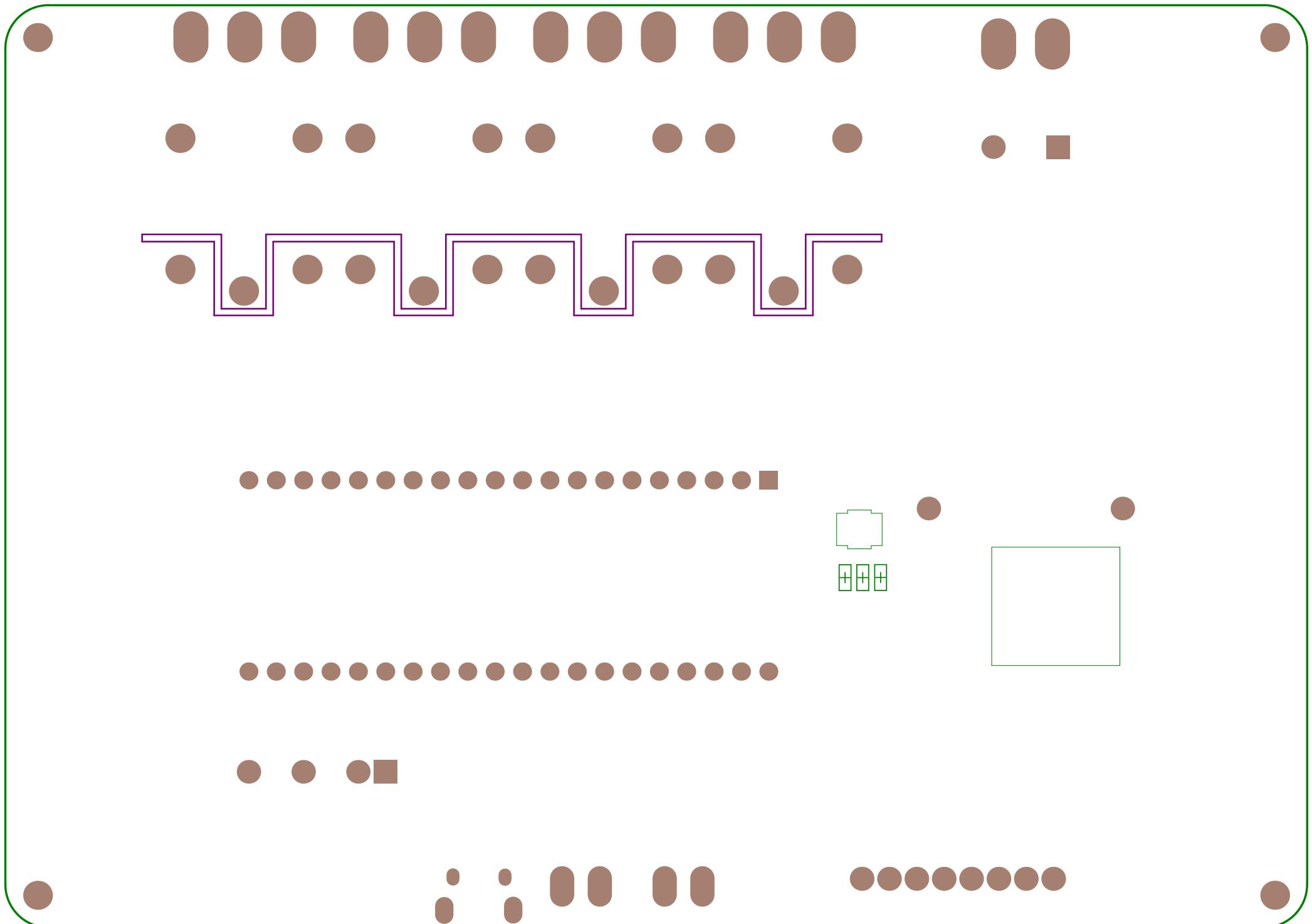
4CH\RS485\MIFI\RP2040\AC-DC



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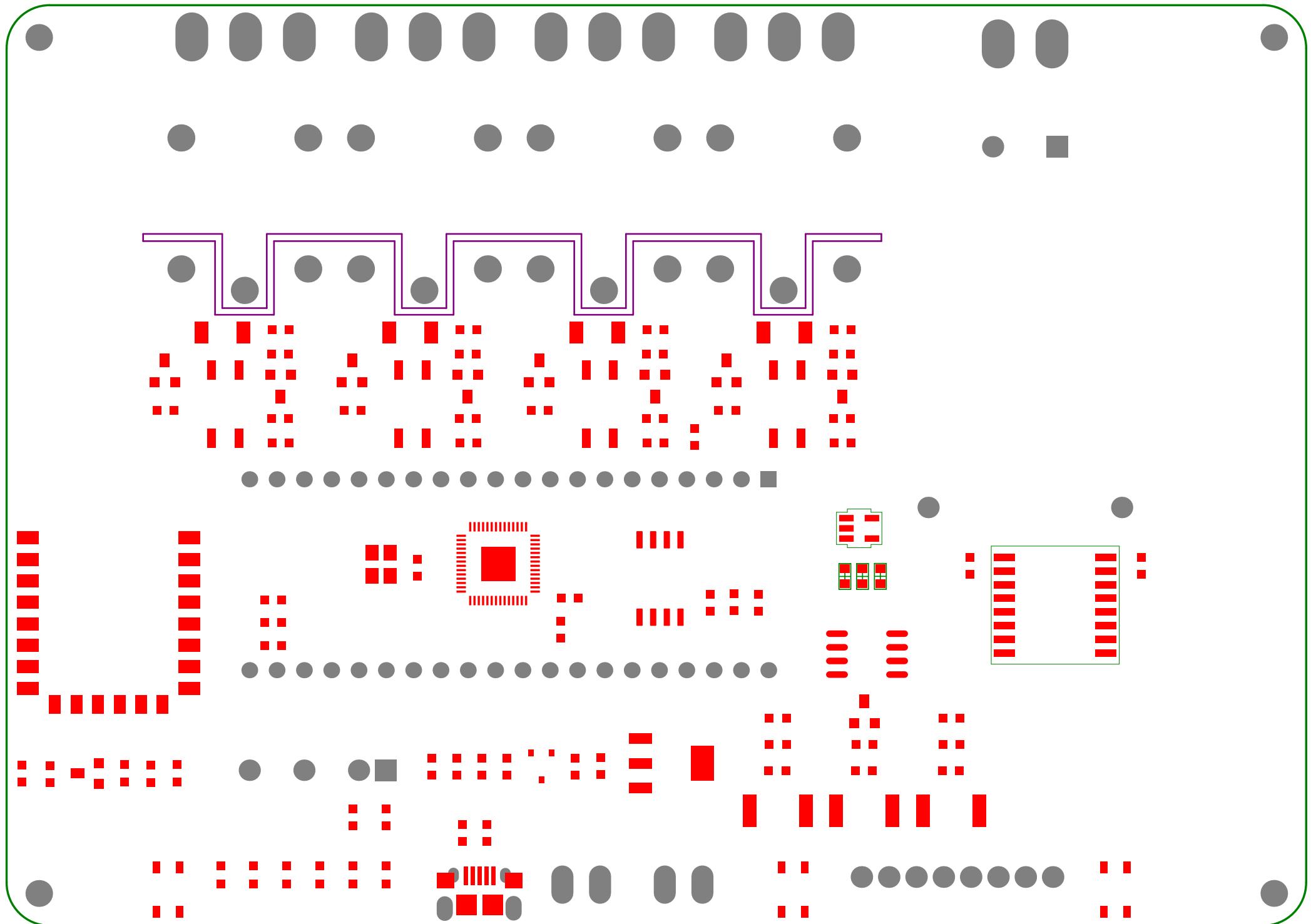


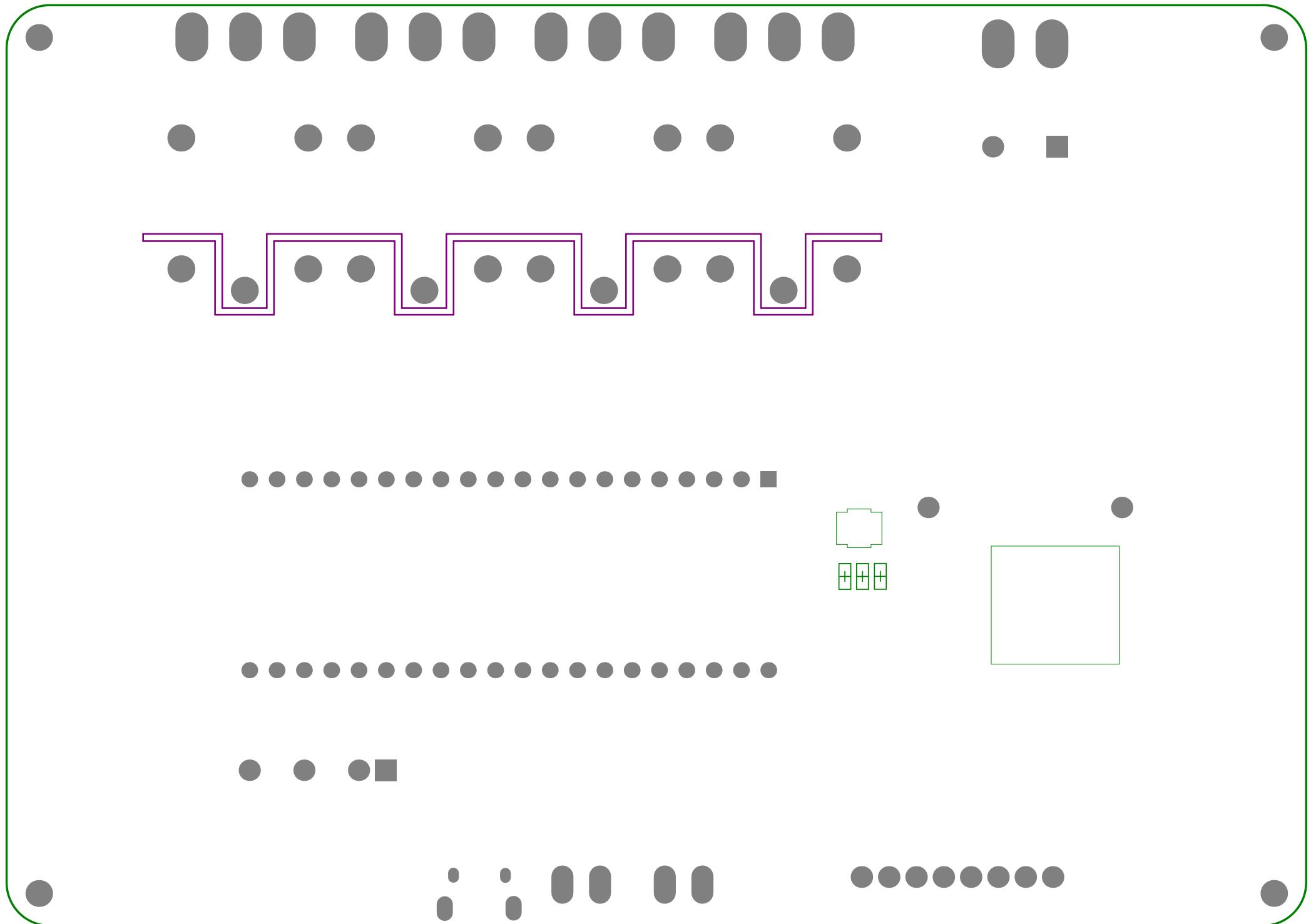




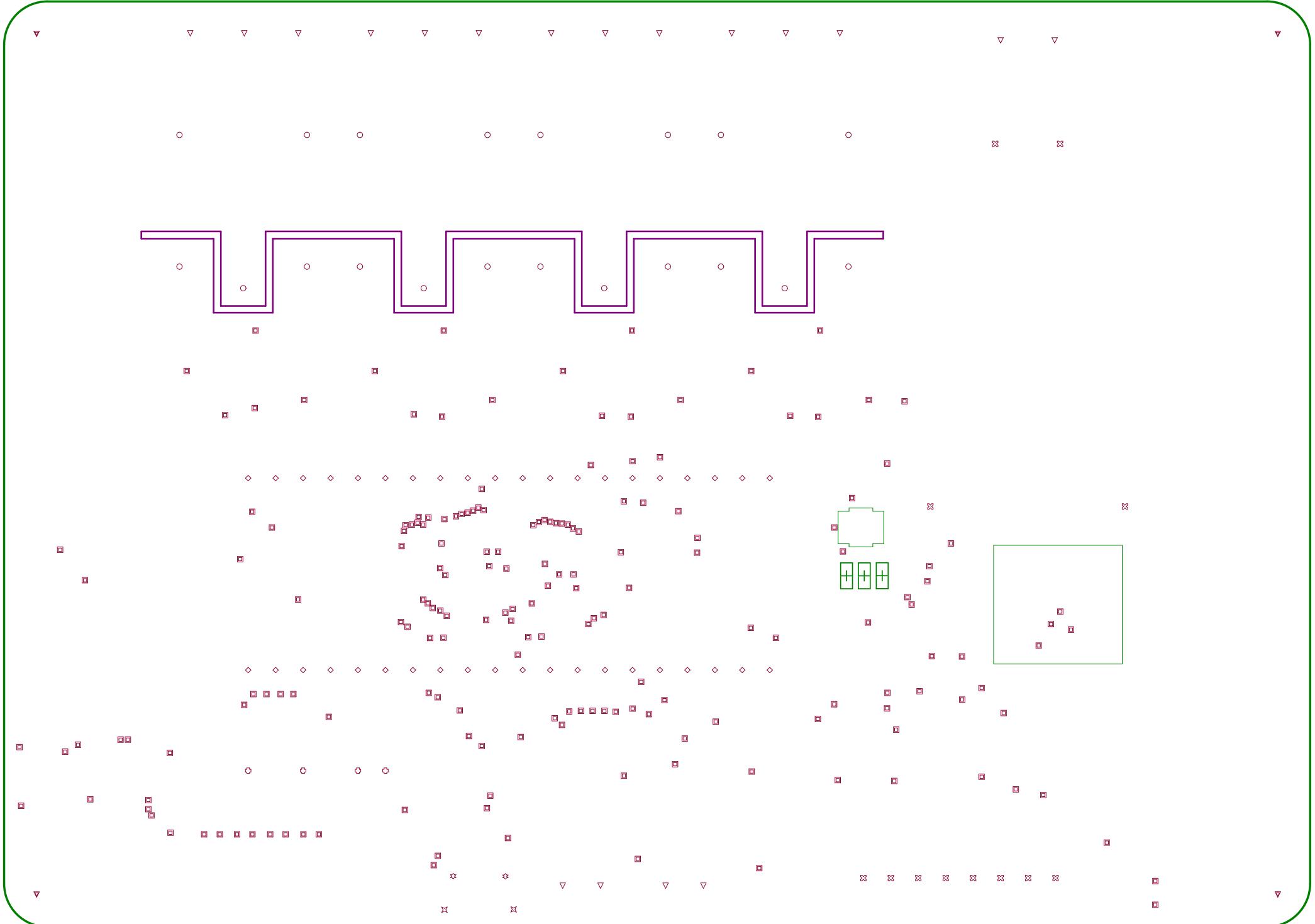


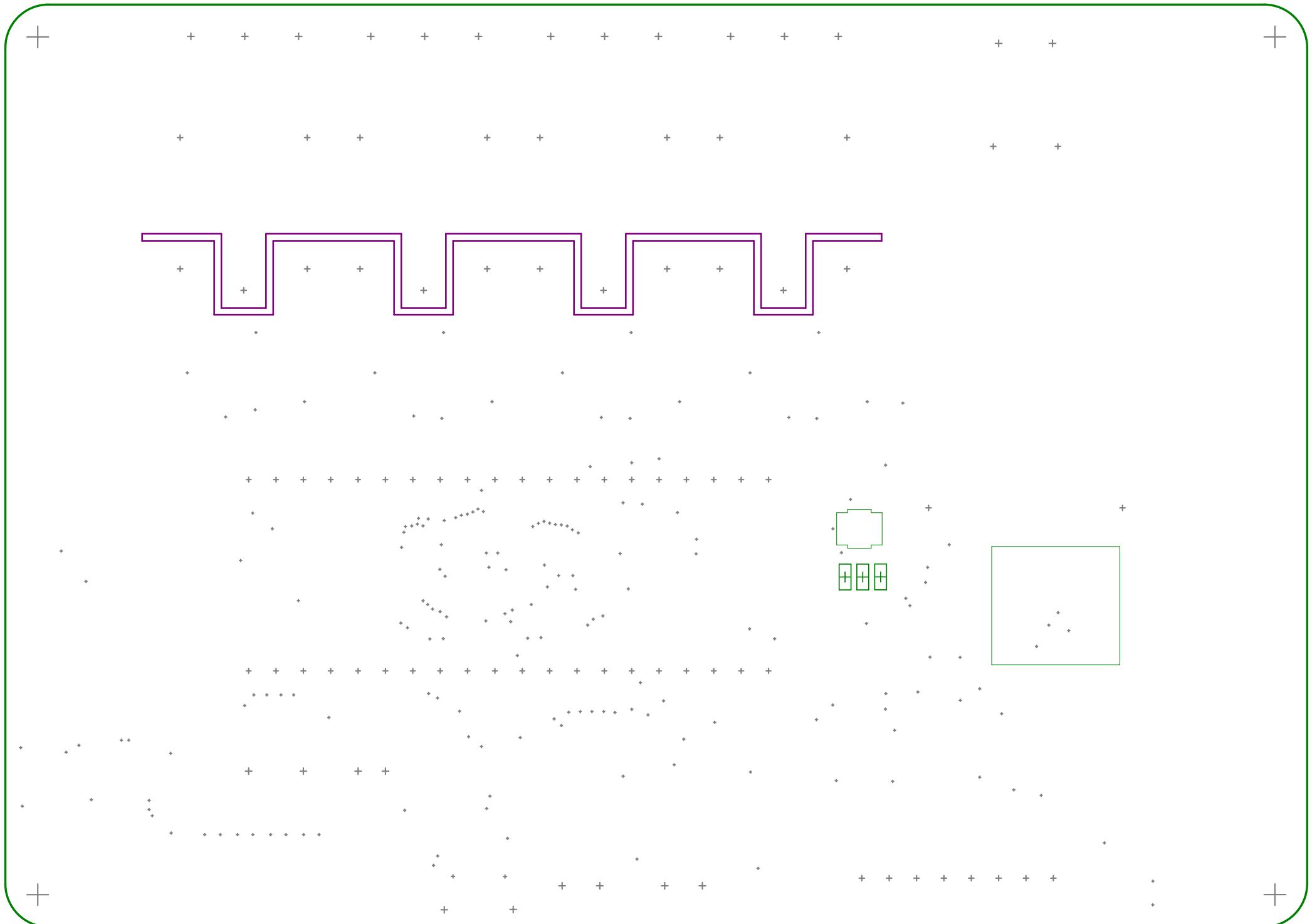












Comment	Description	Designator	Footprint	LibRef	Quantity
0.1uF		C1, C2, C6, C8, C10, C12, C15, C16, C17	CAP_0603_NONPOLAR	CAP_NONPOLAR	9
2.2uF		C3	CAP_0603_NONPOLAR	CAP_NONPOLAR	1
0.1uF		C4, C9	1608[0603]	CAP_NONPOLAR	2
10uF		C5, C7	CAP_0603_NONPOLAR	CAP_NONPOLAR	2
22nF		C11	1608[0603]	CAP_NONPOLAR	1
470pF		C18	CAP_0603_NONPOLAR	CAP_NONPOLAR	1
CON2		CN1, CN5	CON2_3.5	CON2	2
CON2		CN2	CON2_5.0_R2	CON2	1
CON8		CN3	con8_bj	CON8	1
CON3		CN6, CN7, CN8, CN9	CON3_5.0_R2	CON3	4
CON_PICO		CN10	CON40_PICO_TOP	CON40_PICO	1
SMAJ12CA	Bidirectional 12V 13.3V 19.9V 20.1A SMA(DO-214AC) TVS RoHS	D1, D2, D3	SMO_DO-214AC	TVS DIODE	3
LL4148		D4, D5, D6, D7	MINI_MELF_SOD80	DIODE	4
LED		L1, L2, L3, L4, L5, L6	LED_0603_neg	LED	6
ESP8266-12E	WiFi module, 32-bit MCU micro, 80 MHz or 160 MHz. Supports the RTOS and integrated Wi-Fi MAC/BB/RF/PA/LNA, on-board antenna.	MOD1	ESP8266-12E/ESP-12E	ESP8266-12E	1
OPTO_817		OP1, OP2, OP3, OP4	OPTO_817_SMD	OPTO_817	4
A03401	P-Channel MosFet 30V 4A (Ta) 1.4W (Ta) Surface Mount SOT- 23-3L	Q1	SOT23-3	A03401	1
BC817		O2, TR1, TR2, TR3, TR4, TR5, TR6, TR7, TR8, TR9	547_SOT23	TRANSISTER_NPN	10
1K		R1, R4, R6, R7, R8, R23, R24, R25, R26, R33, R34, R35, R36, R44	0603	RES	14
22R		R2, R3	0603	RES	2
10K		R5, R39, R40, R41, R42, R43	0603	RES	6
4.7K		R11, R12, R13, R14, R17, R19, R20, R21, R22, R29, R30, R31, R32	0603	RES	13
OR		R16	0603	RES	1
NC		R18	0603	RES	1
100K		R27, R28, R37, R38	0603	RES	4
OE		R45	0603	RES	1
RELAY_SDPT		RE1, RE2, RE3, RE4	RELAY_SDPT	RELAY_SDPT	4
TACTILE_SWITCH		SW1, SW2, SW3	SKRPACE010	TACTILE_SWITCH	3
AMS1117-3V3		U1	SOT-223	AMS1117	1
RP2040	A MICROCONTROLLER BY RPI	U2	QFN-56	RP2040	1
B0505LS -1W	HENIPER B0505LS-1W 5V 200mA 5.5V 1 Through Hole Power Modules ROHS #C234075	U3	B0505LS-1W	B0505LS -1W	1
HLK-5M05	HLK-5M05	U4	HLK-5M05	HILINK_HLK-5M05	1
W25Q64JVSSIO	FLASH - NOR Memory IC SPI - Quad I/O, QPI 104MHz 8-SOIC	U5	SOIC-8N	W25Q128FV	1
AP7365-33WG-7		U6	SOT65P212X110-5N	RT9193-33GU5	1
SP3485EN	SP3485EN +3.3V low power half-duplex transceivers SOIC8 PACKAGE	U7	SO_8_N	SP3485EN	1
SSP5841		U9	SOIC127P1030X265- 16N	SSP5841	1
USB	Micro USB Connector SMD – TH Support Legs – 5 Pin – Type B	USB1	USB_MICRO	USB_MICRO	1
12MHz	12MHz ±10ppm 12pf 80Ω SMD-3225_4P Crystals RoHS #C70565	X1	CRYSTAL OSC SMD	CRYSTAL_OSCILATOR	1