

Title: **Telemetry TX.PrjPcb**

Sheet Name: **Power Supply.SchDoc**

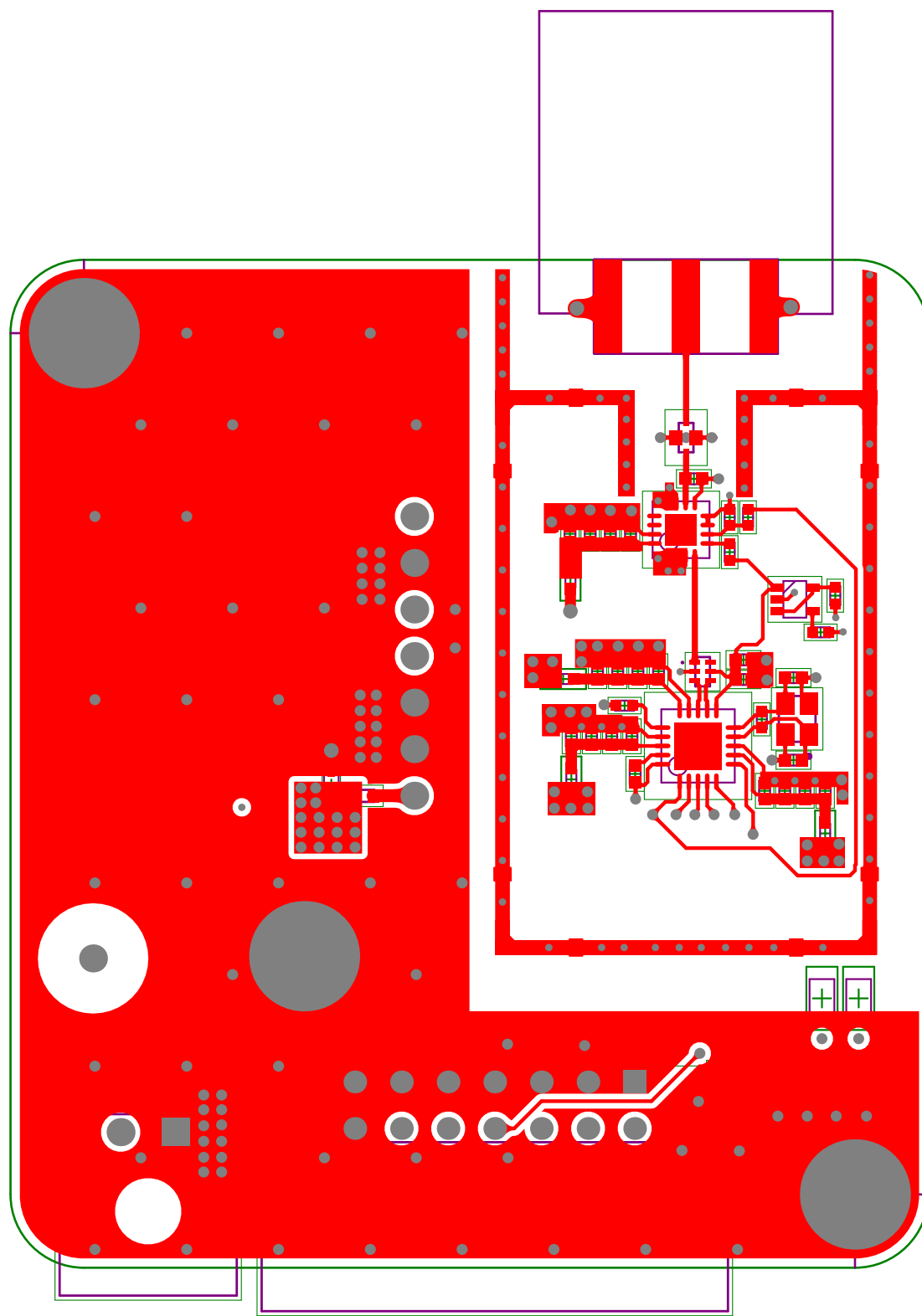
Sheet 4 of 4

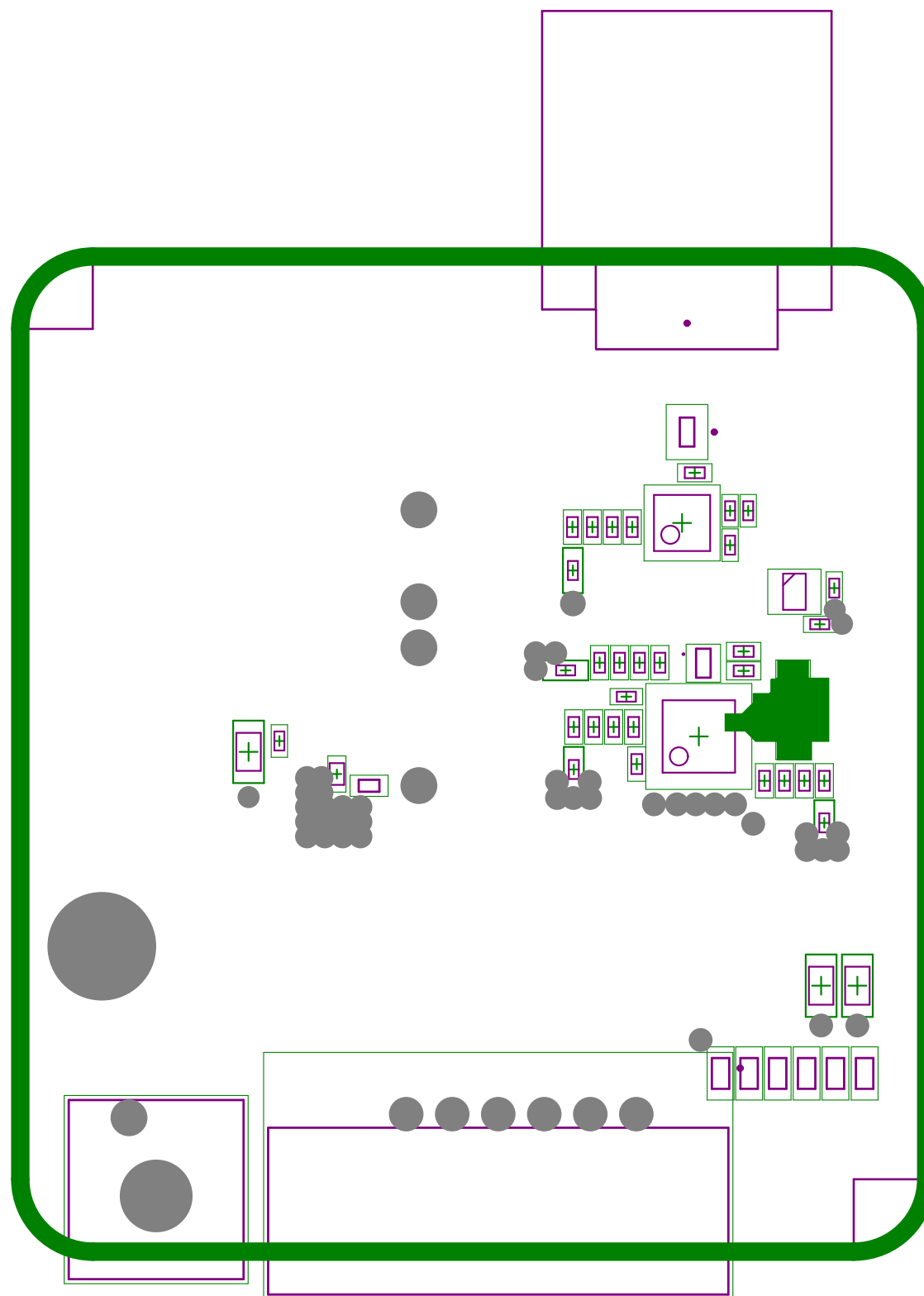
Author: **Simone Tollardo**

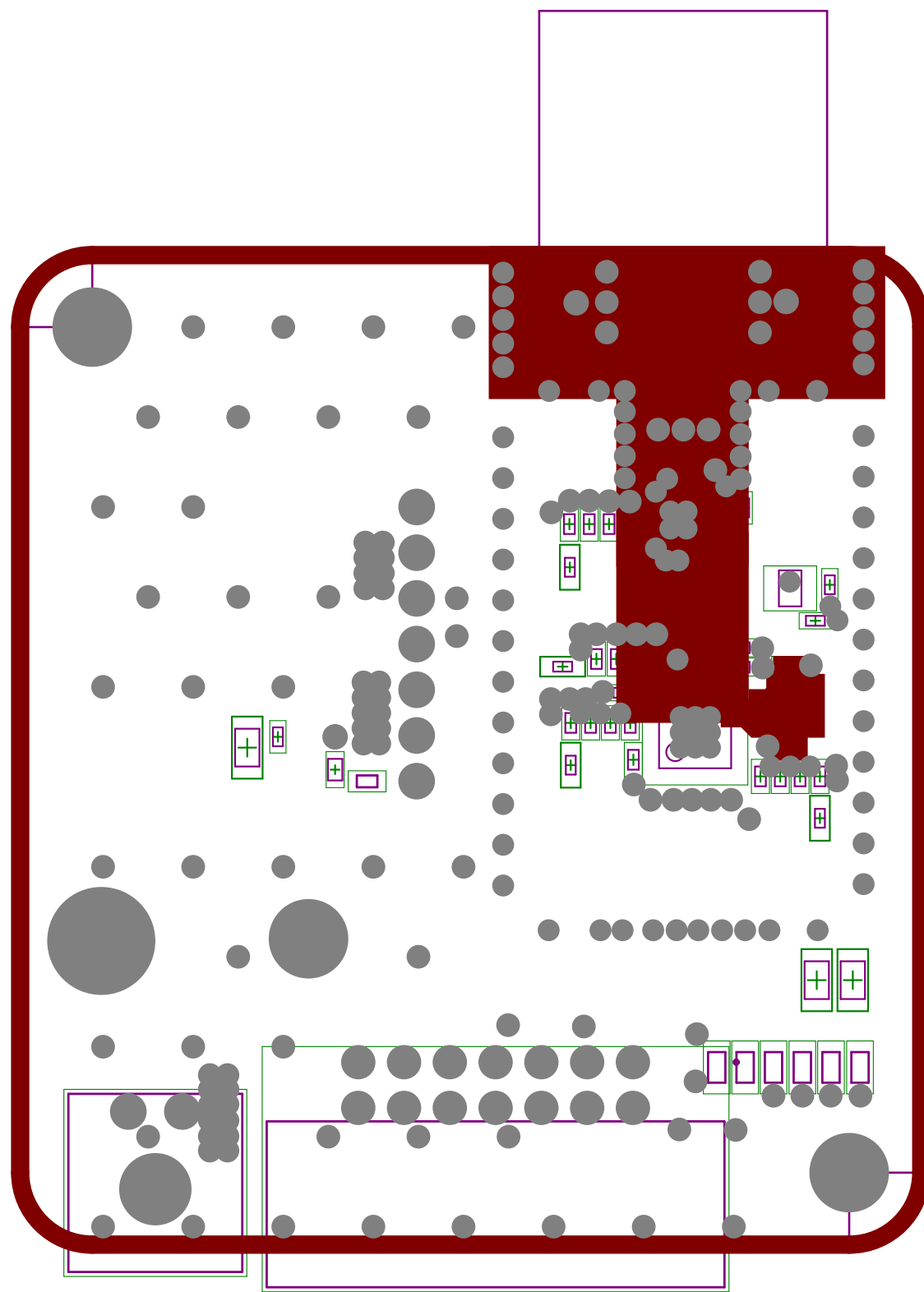
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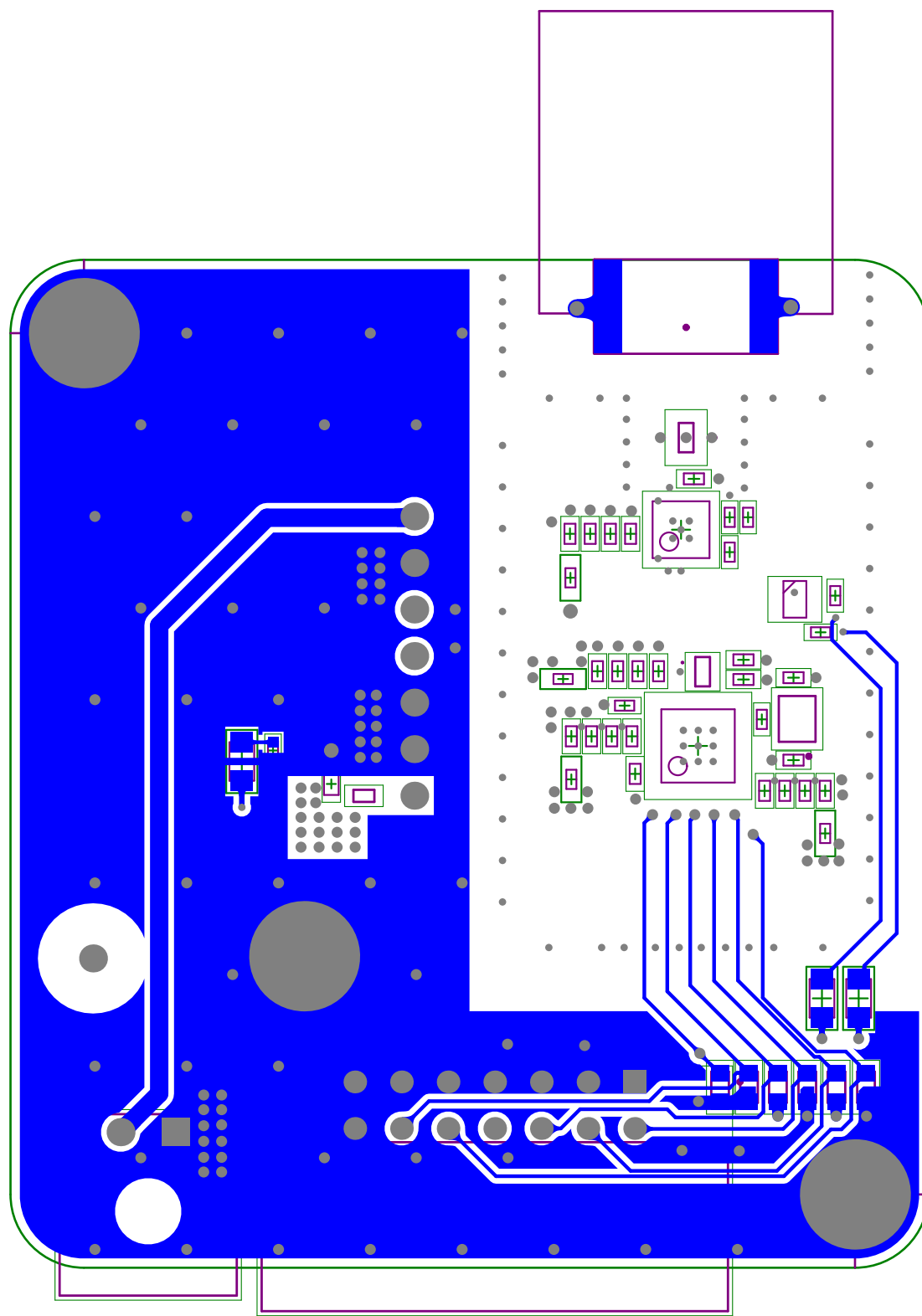
Date: **03/02/2022**

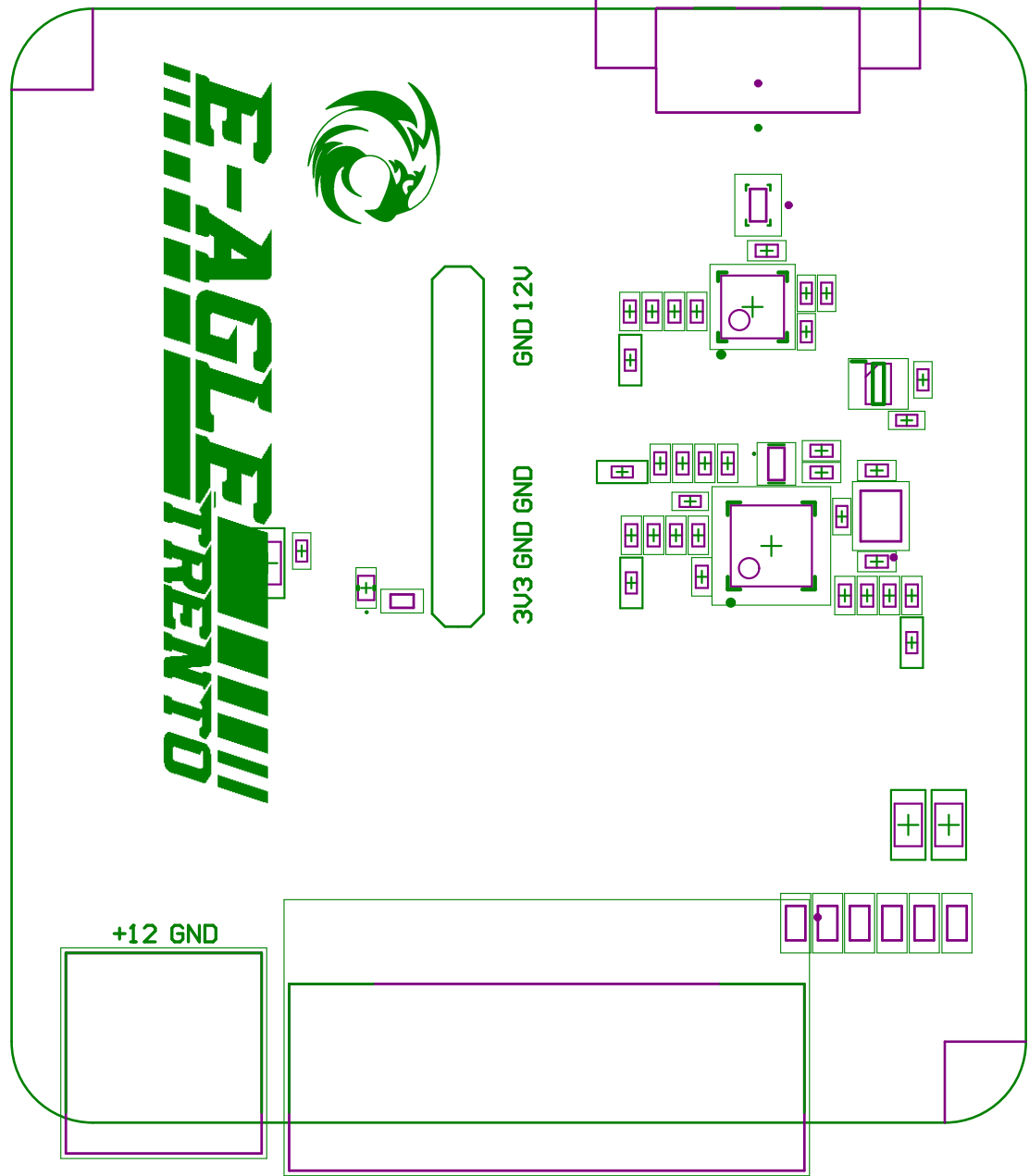


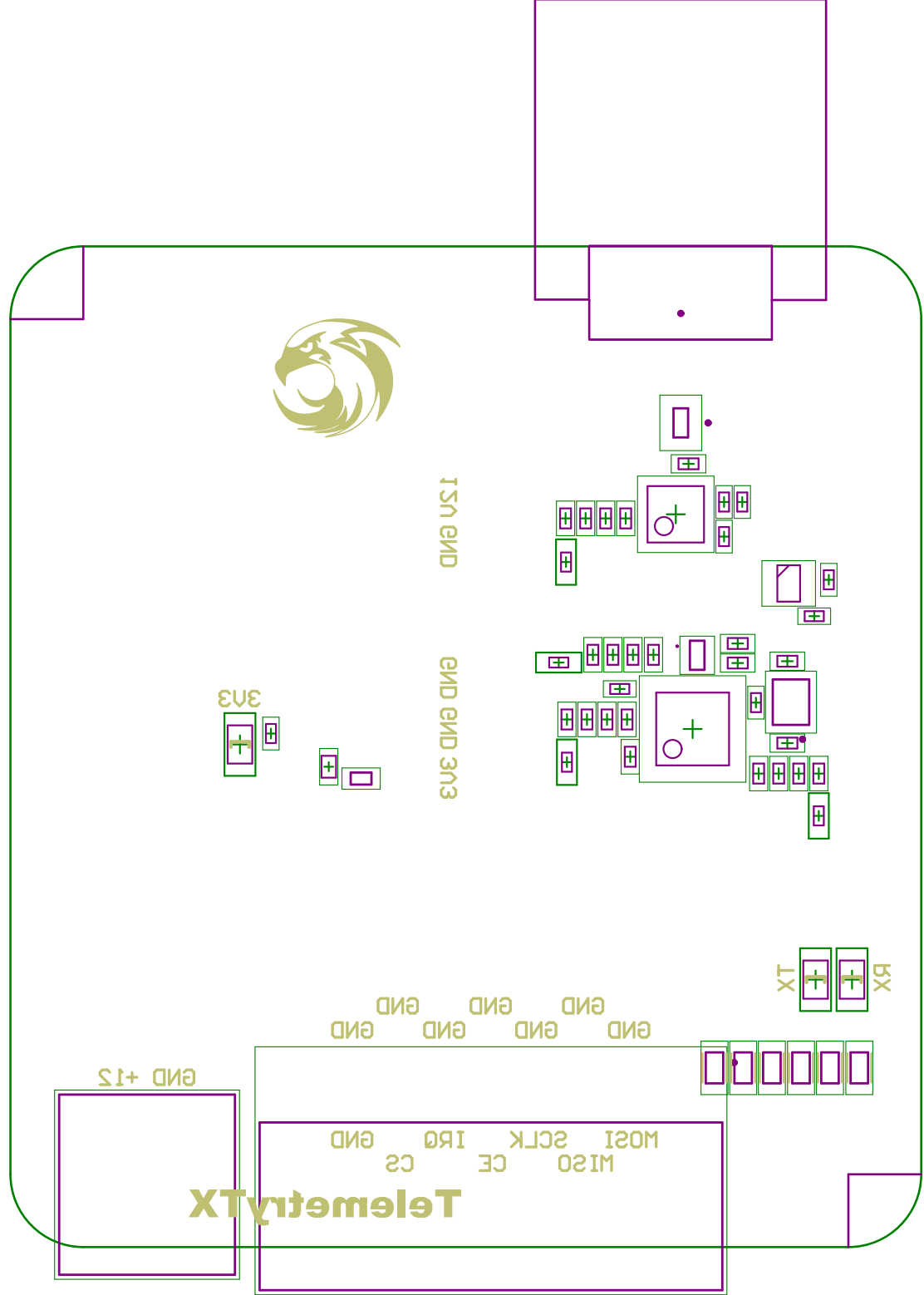


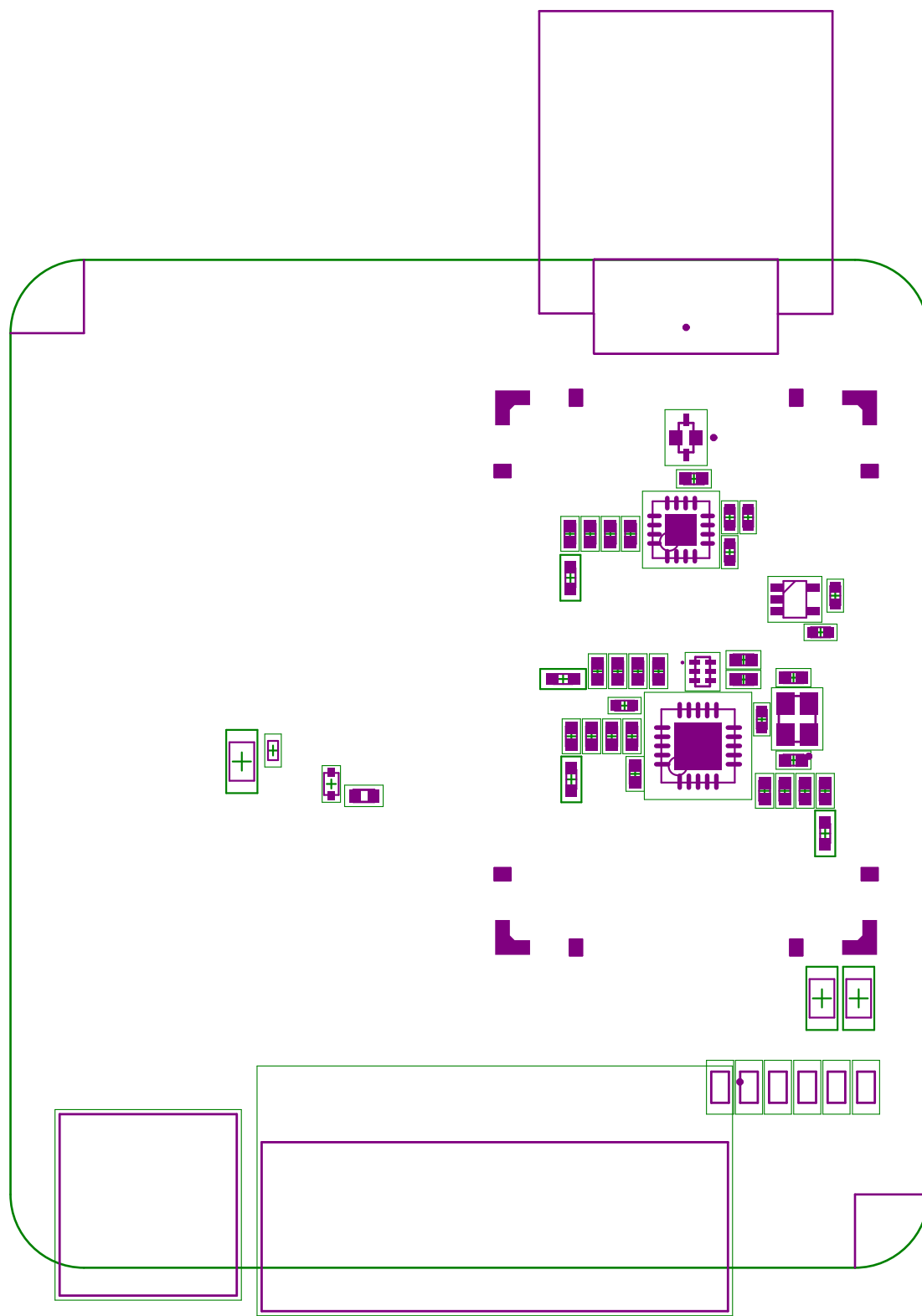


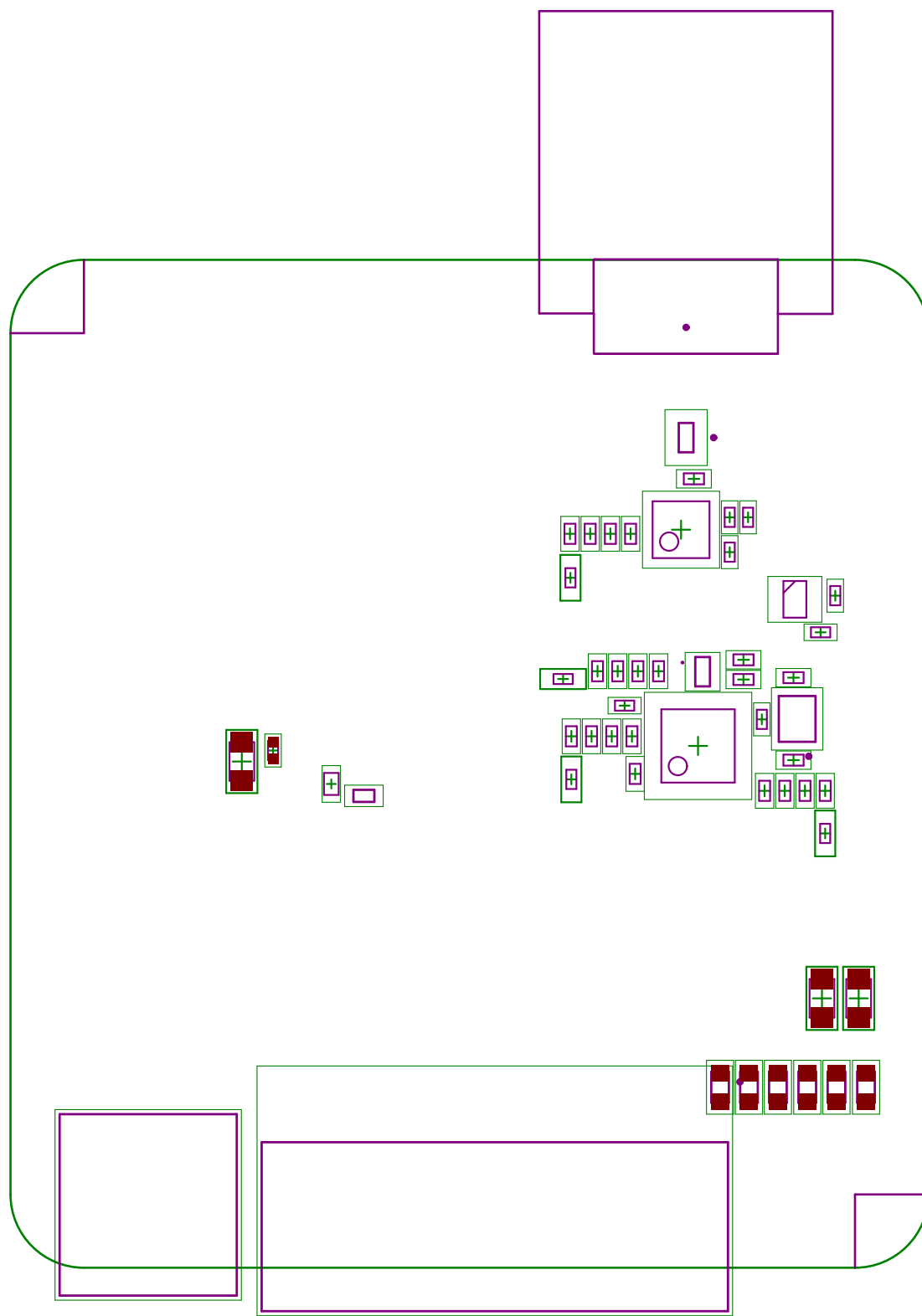


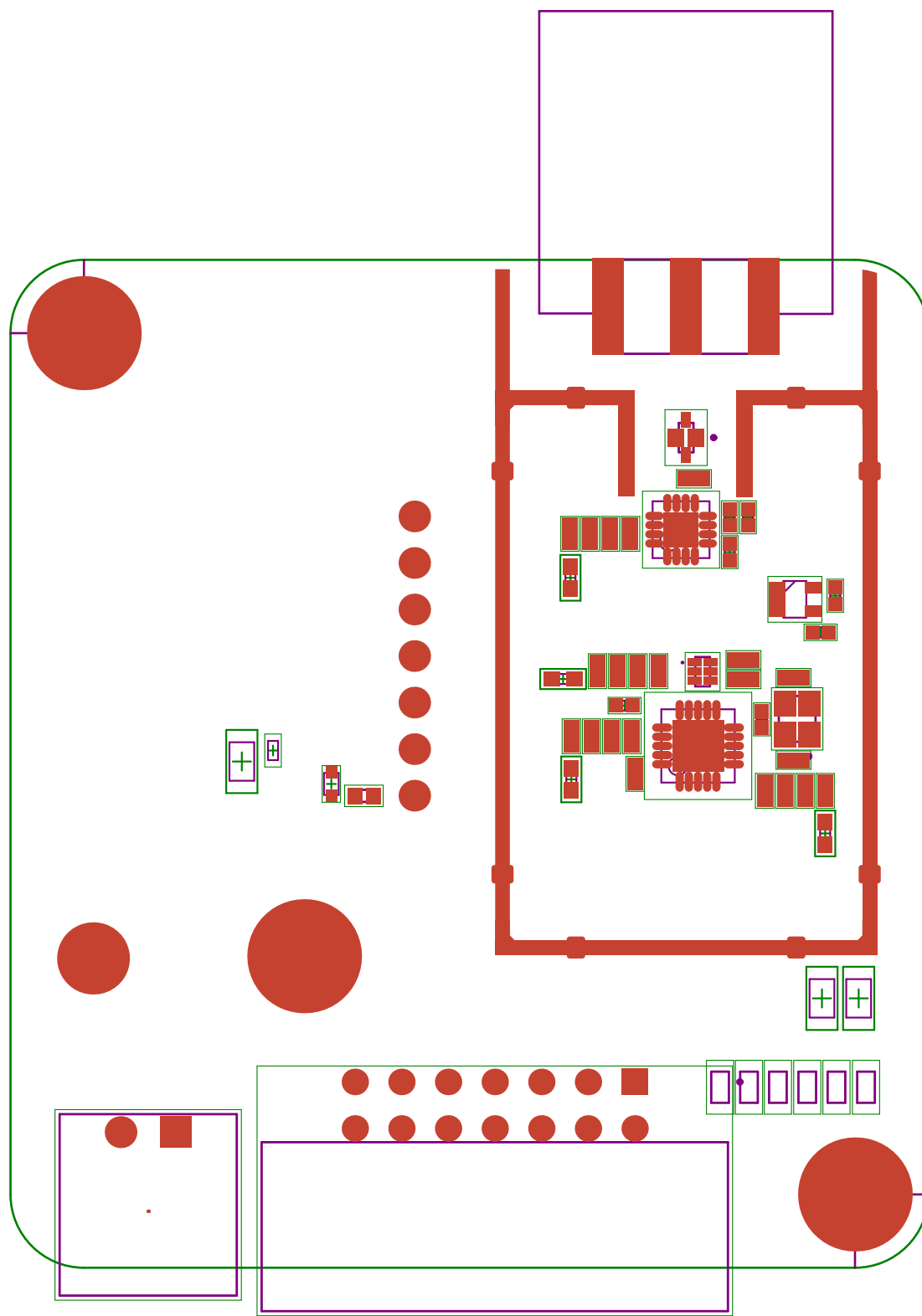


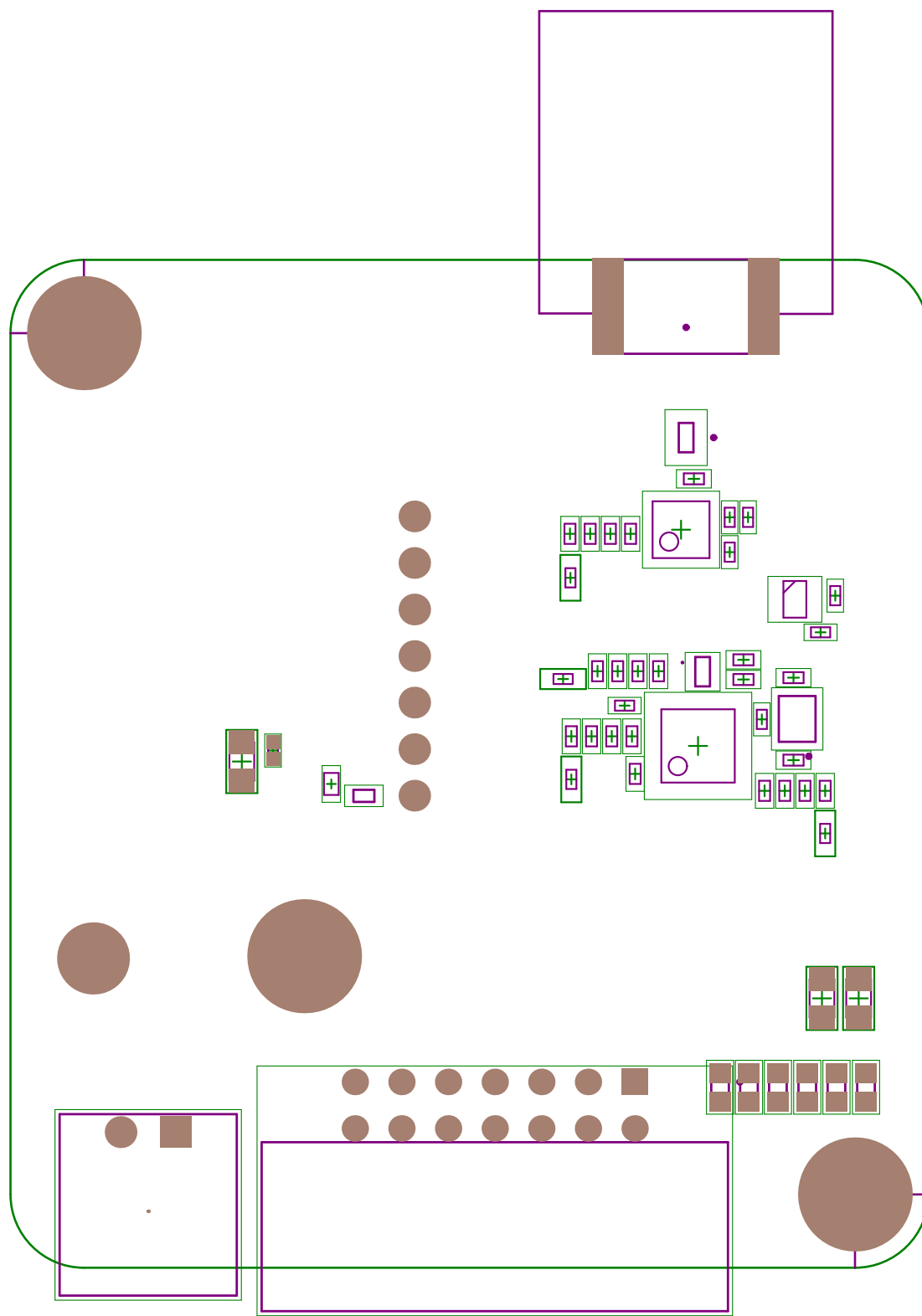


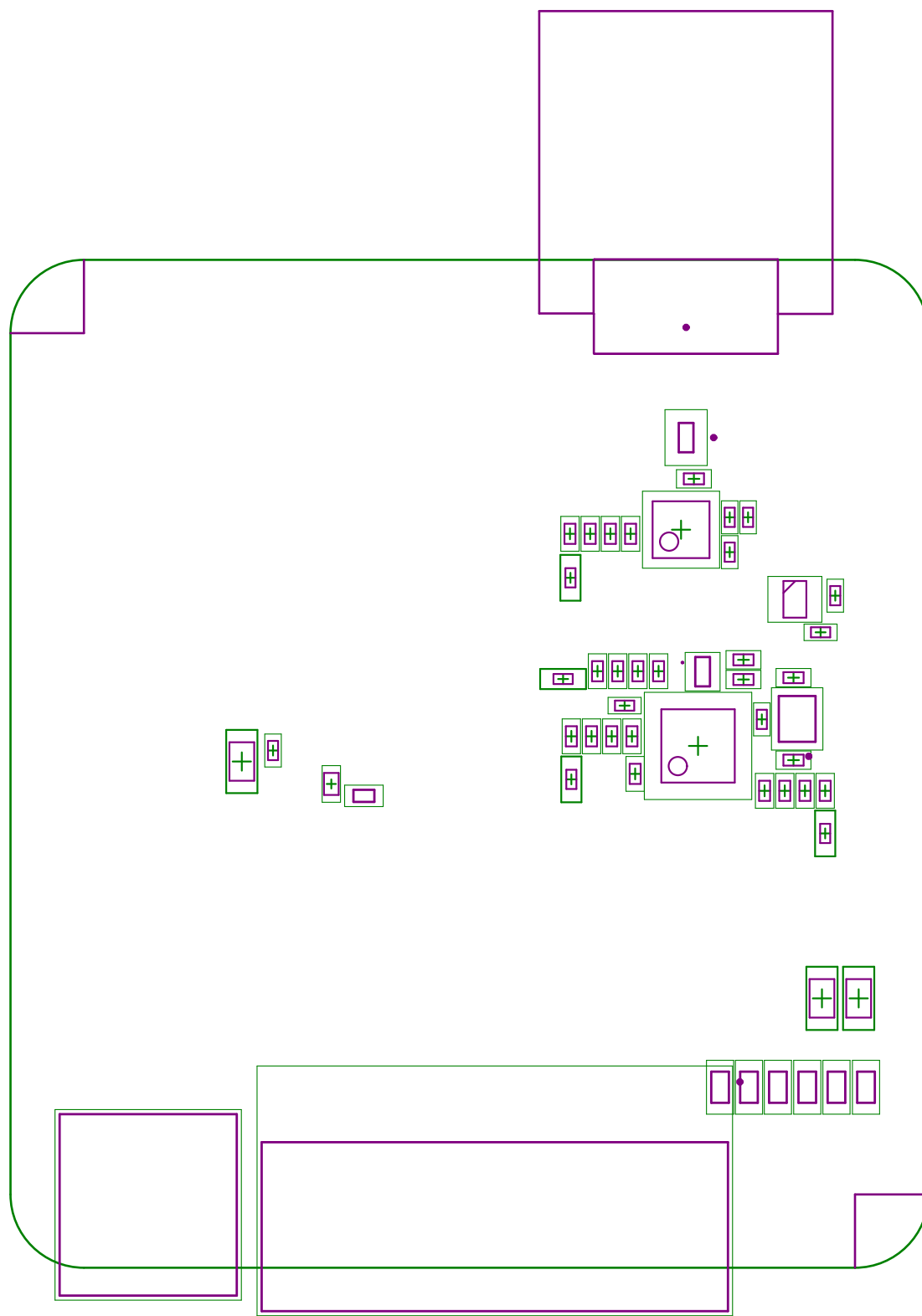


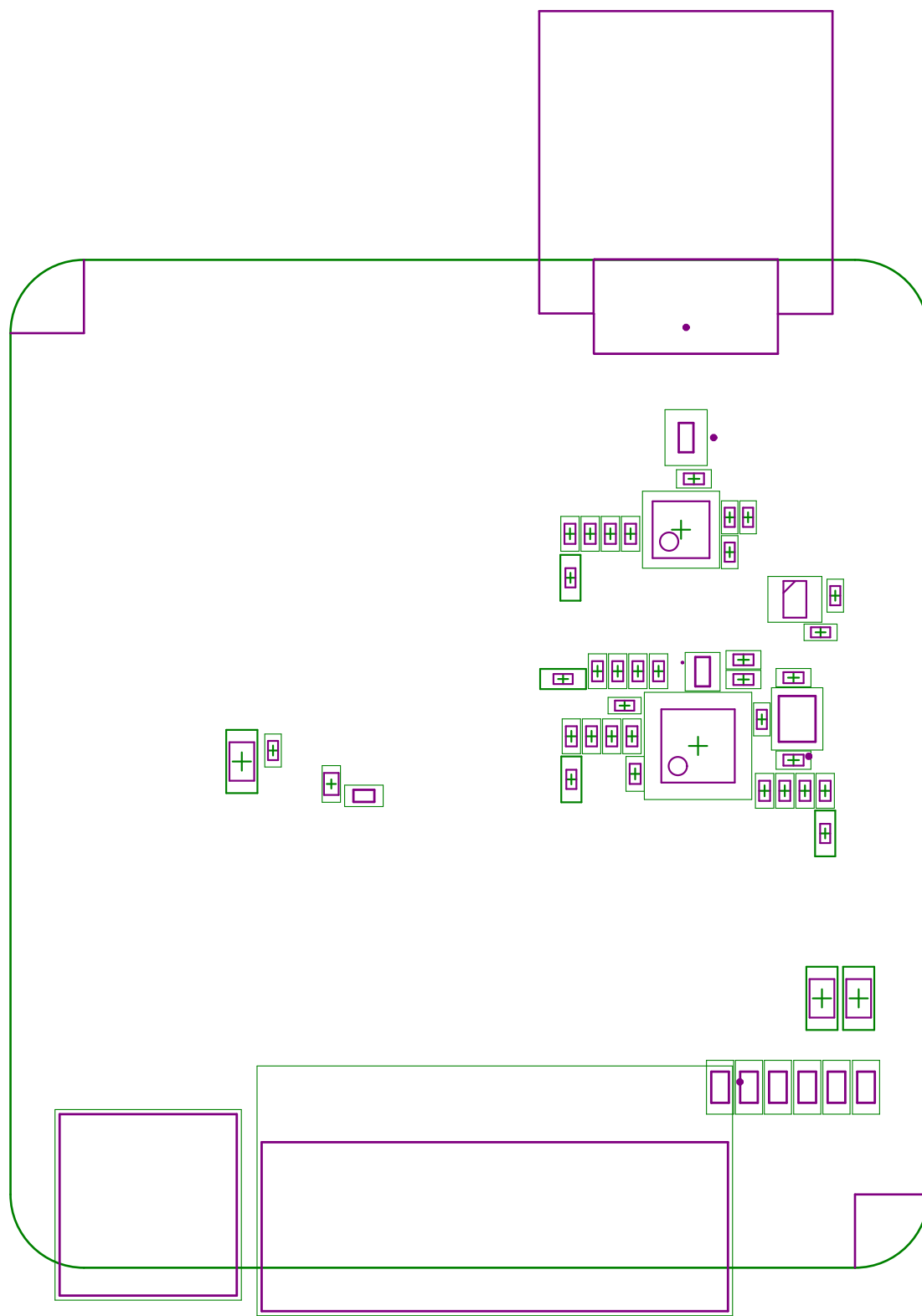


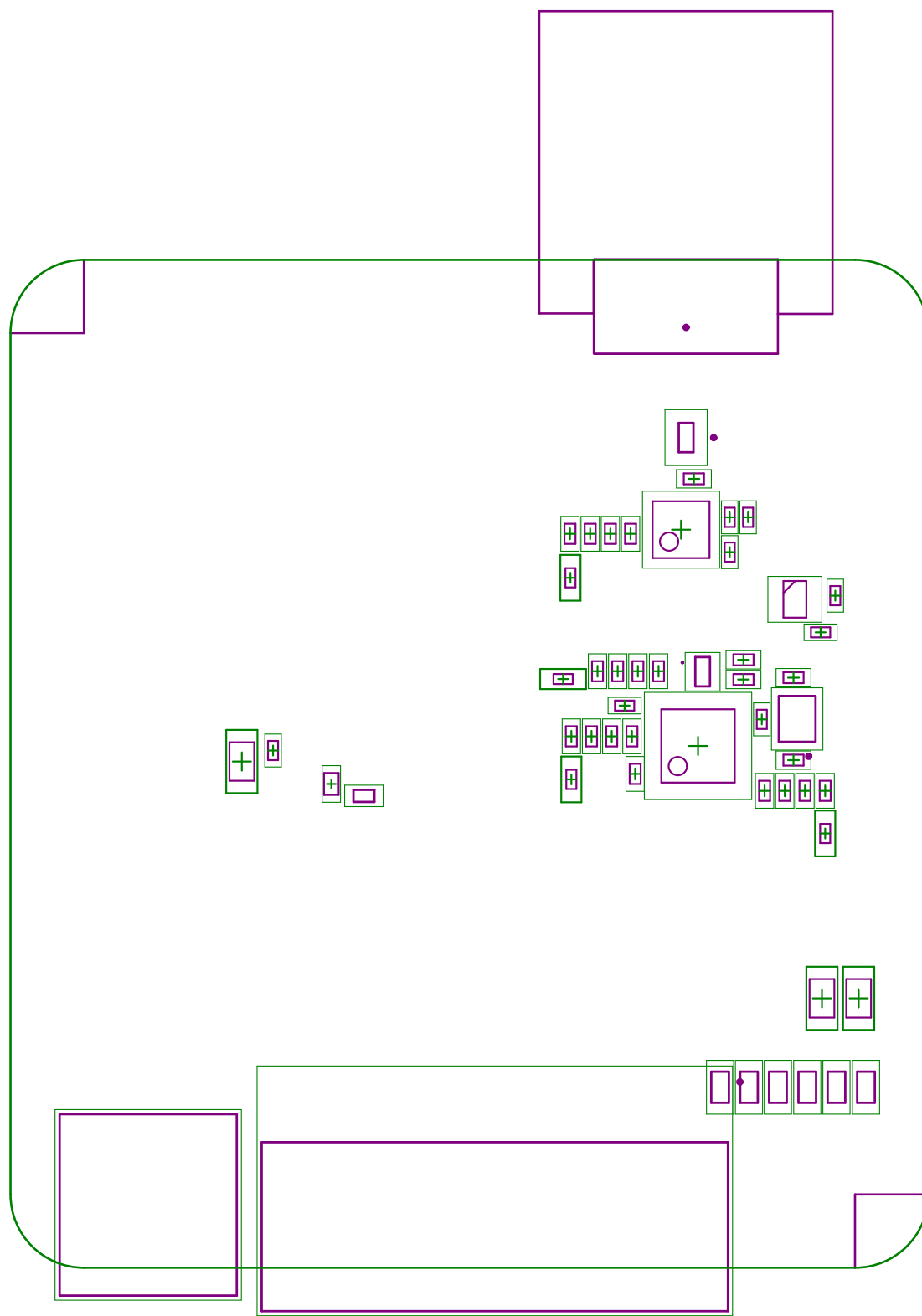


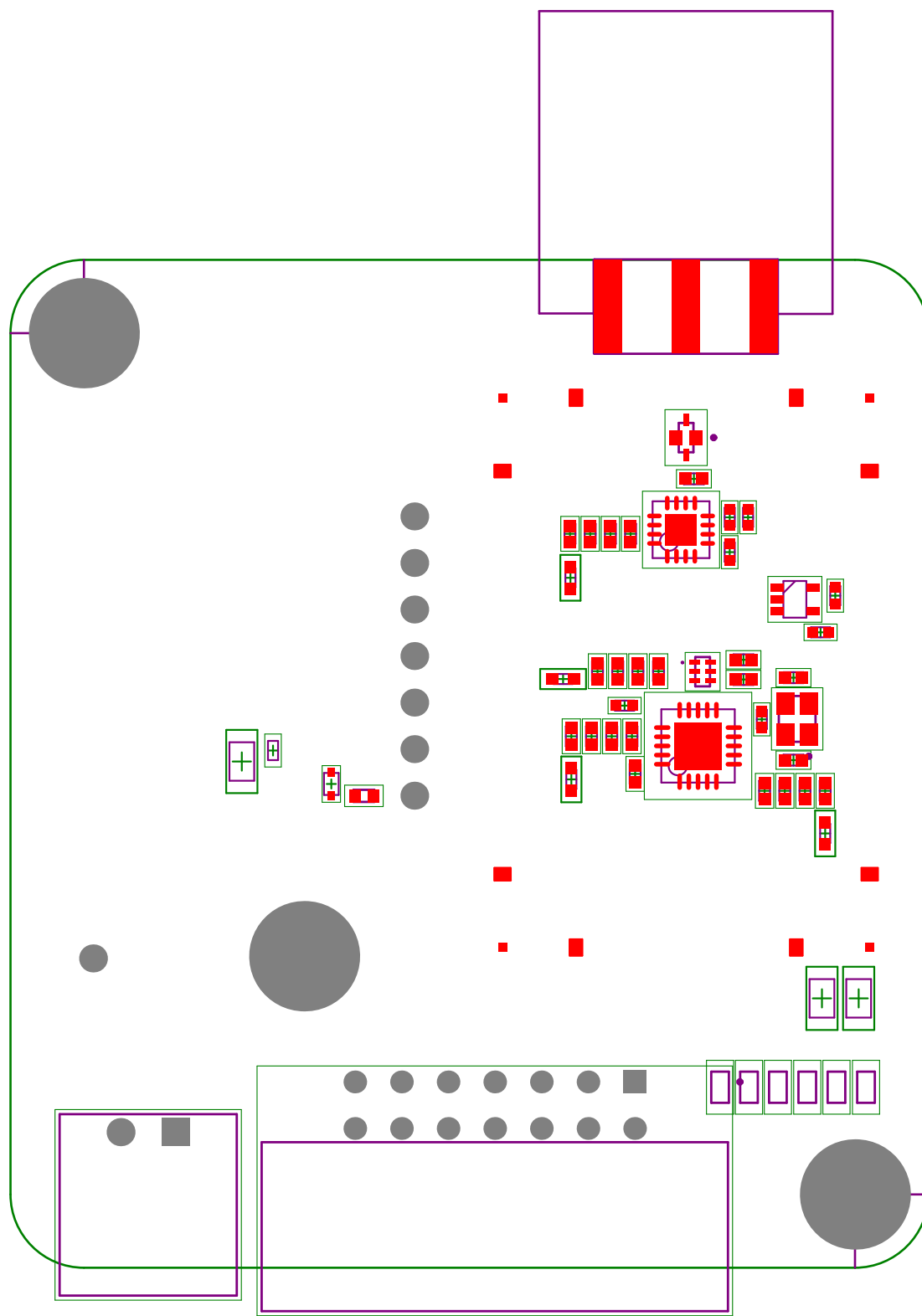


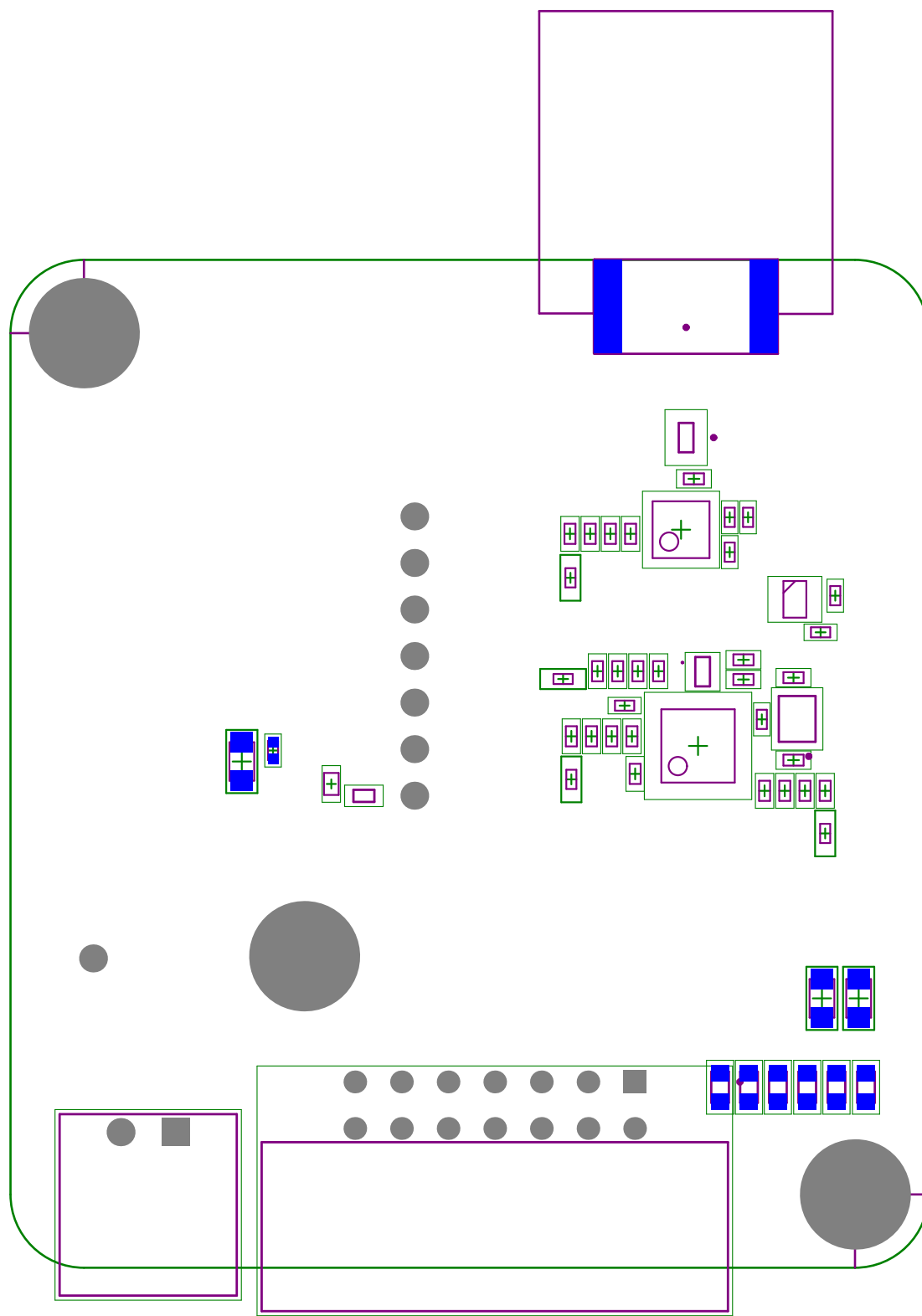


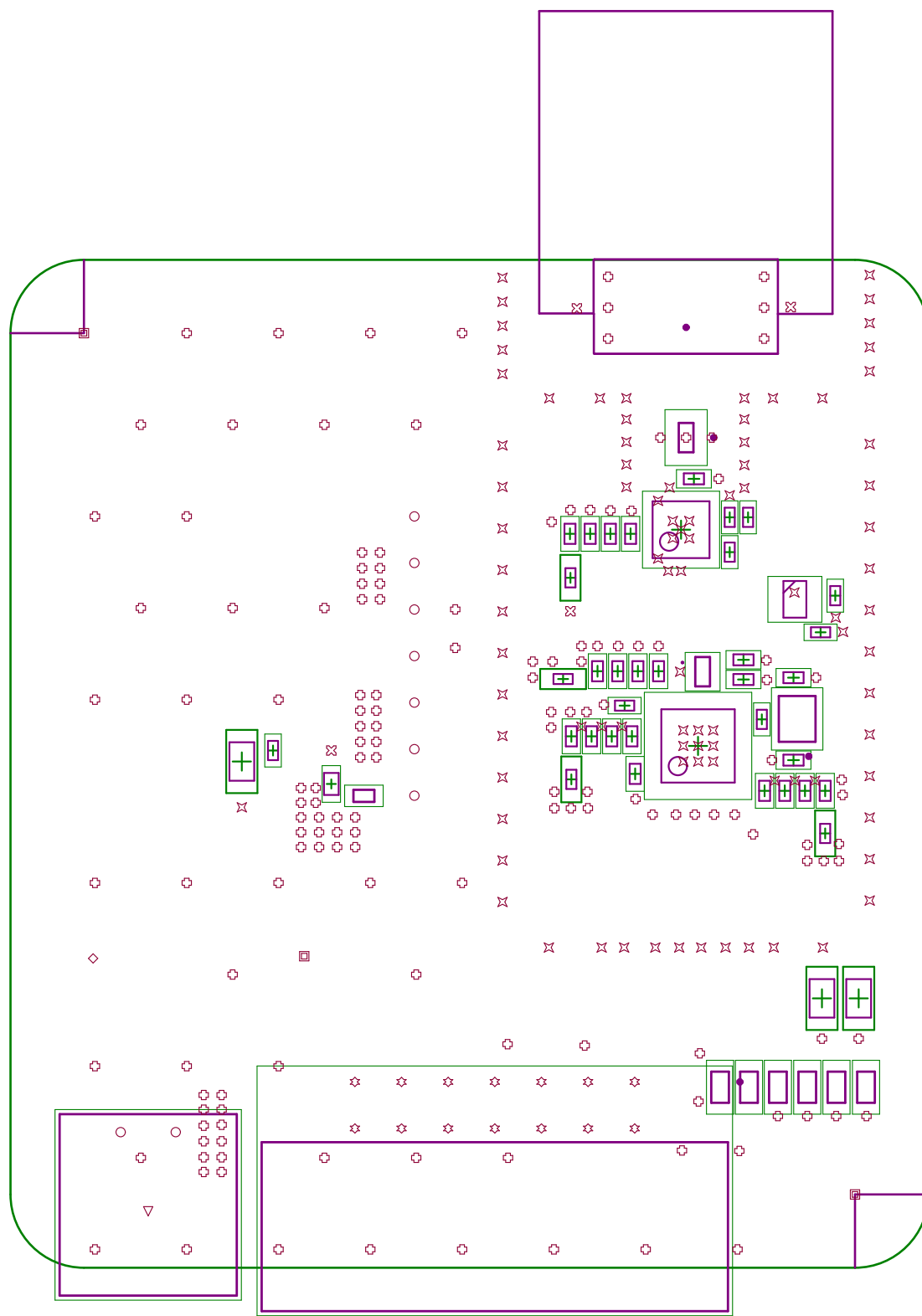


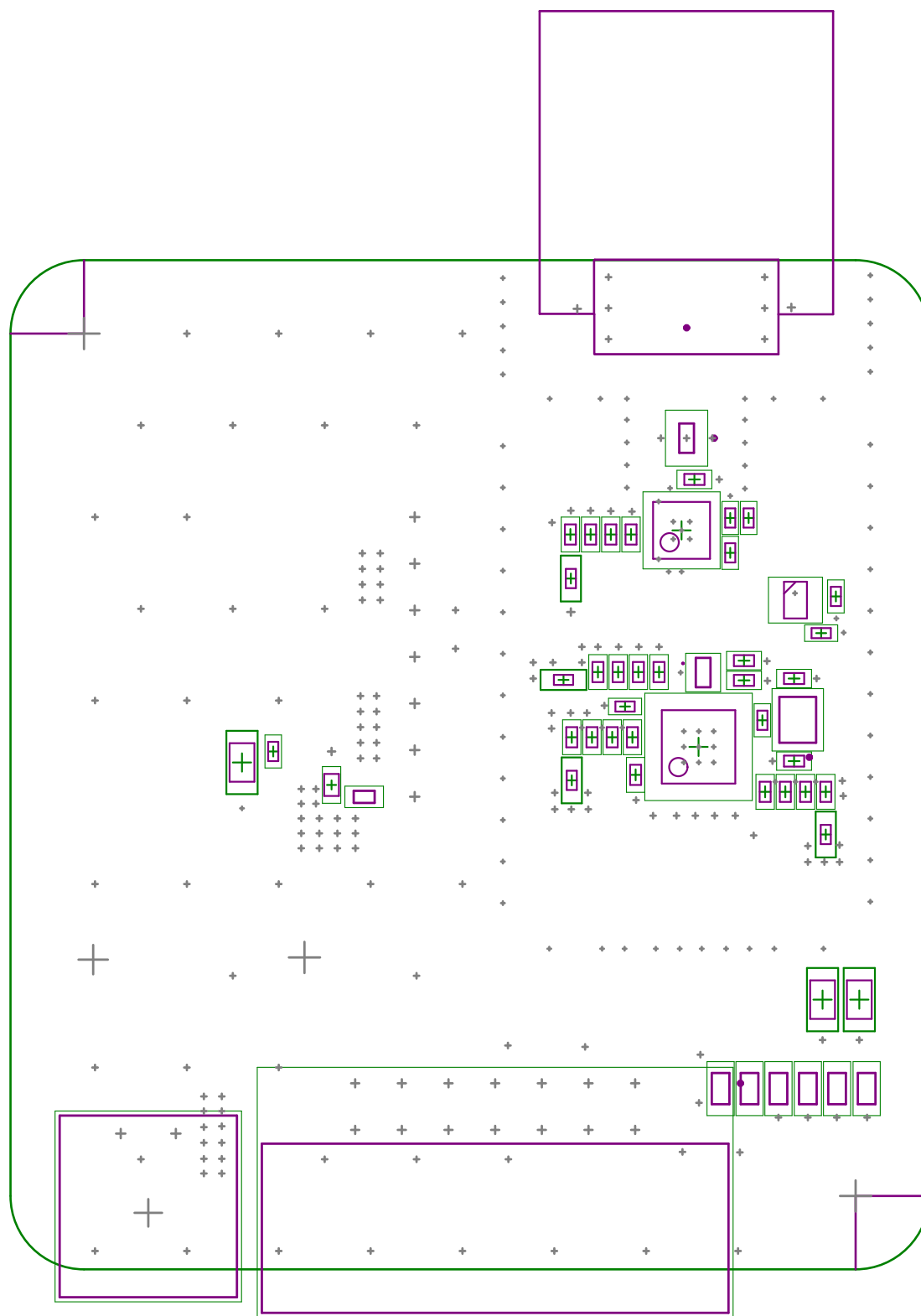












Designator	Description	Comment	Footprint	LibRef	Part Number	PartNumber
C21, C22		22pF	CAPC1005X56X25NL1 0T15	CMP-2008-02613-1	04025A220JAT2A	
C23		2.2nF	CAPC1005X56X25NL1 0T15	CMP-2008-02613-1	04025A220JAT2A	
C24		4.7pF	CAPC1005X56X25NL1 0T15	CMP-2008-02613-1	04025A220JAT2A	
C25		33nF	CAPC1005X56X25NL1 0T15	CMP-2008-02613-1	04025A220JAT2A	
C27, C31, C211, C215		220pF	CAPC1005X56X25NL1 0T15	CMP-2008-02613-1	04025A220JAT2A	
C28, C32, C212, C216		1nF	CAPC1005X56X25NL1 0T15	CMP-2008-02613-1	04025A220JAT2A	
C29, C33, C213, C217		10nF	CAPC1005X56X25NL1 0T15	CMP-2008-02613-1	04025A220JAT2A	
C34, C210, C214, C218	F3801106MUA 0402 Low ESR 10uF Tantalum Capacitor	10uF Low ESR	CAPC1005X56X25NL1 0T15	CMP-2008-02613-1	04025A220JAT2A	
C35		0.3pF	CAPC1005X56X25NL1 0T15	CMP-2008-02613-1	04025A220JAT2A	
D41	Transient Voltage Suppressor, Micro- Packaged Diode for ESD Protection, 2-Pin SOD-523, Pb-Free, Tape and Reel	ESD5Z2.5T1G	ONSC-SOD-523-2-502- 01_V	CMP-1063-00103-1		ESD5Z2.5T1G
D43, D44, D45, D46, D47, D48		0603 5V Bi-Dir ESD Suppressor Diode TVS 2-Pin SOD-523F T/R	CPDU5V0C-HF	GG0603052R542P- Footprint-1	CMP-004-00003-2	
DCDC41	Detachable Supplier 12-USB to 5V-3V3 switching or linear V2 (Male header on Female Header)	Detachable Supplier 5/3.3V horizontal V2	Supplier E-Agle TRT- Footprint-1	CMP-00047-8		
EMI21	Harwin EMI Gasket 30 x 20mm, 5mm high, Nickel Silver	S01-30200500	S01-30200500- Footprint-1	CMP-00028-00000-3		
F41	PTC RESET FUSE 6V 500MA 0402	0402L050SLKR	0402L035SLKR- Footprint-1	CMP-005-00006-1		
FB21, FB22, FB23, FB31	SMD EMI Suppression Ferrite Bead WE-CBF, Z = 120 Ohm	120ohm @ 100MHZ	SMD-0402	CMP-0220-00102-1		
LED21	2V 0805 Green Led	TX Led	0805_A	CMP-1426-00009-1		150080V575000
LED22	2V 0805 Red Led	RX Led	0805_A	CMP-1426-00009-1		150080V575000
LED41	2V 0805 Red Led	150080RS75000	0805_A	CMP-1426-00011-1		150080RS75000
P31	SMA Female Connector	SMA	SMA Female Connector Panel Mount	CMP-002-00010-7		
P41	Conn Ejector Header HDR 14 POS 2.54mm Solder RA Side Entry Thru-Hole Tube	IDC Connector 2x7 Right Angle	1761607-5-Footprint- 1	CMP-00039-2		
P42	1X02 Molex Right Angle Connector Header 2 Position 3 mm Solder Right Angle Thru-Hole 2 Terminal 1 Port Micro-Fit 3.0™	043650-0200	0436500200-Footprint 1	CMP-002-00008-4		
R21		1M	RESC1005X37X25NLO 5T10	CMP-2002-01777-1	AC0402JR-071ML	
R22		22k	RESC1005X40X25NLO 5T05	CMP-1011-00659-2	CRCW040222K0FK ED	
R23, R24, R41		510R	RESC1005X40X25NLO 5T05	CMP-1011-00659-2	CRCW040222K0FK ED	
R31, R32		1k	RESC1005X40X25NLO 5T05	CMP-1011-00659-2	CRCW040222K0FK ED	
R33		20k	RESC1005X40X25NLO 5T05	CMP-1011-00659-2	CRCW040222K0FK ED	
U21	RF Transceiver GFSK 3V 20-Pin QFN EP Tray	NRF24L01P-T	NRSC-QFN-20_M	CMP-00025-00003-5		
U22	JOHANSON TECHNOLOGY - 2450BM14A0002T - BALUN, 2.45GHZ, IMPEDANCE MATCHED	2450BM14A0002T	2450BM14A0002T- Footprint-1	CMP-00025-00004-2		
U23	Dual NMOS Mosfet N- ch 20V 100MA Usv	SSM5N16FUTE85LF	SSM5N16FUTE85LF- Footprint-1	CMP-013-00000-2		
U31	RF Tx/Rx front-end IC, 2.4GHz Zigbee CMOS, 3x3mm 16-QFN	RFX2401C	QFN50P300X300X60- HS-17N	CMP-00025-00001-5		
U32	Filter Bandpass 2.4Ghz Eia 0603 / 7 Inch Reel	2450BP14D0100T	2450BP14D0100T- Footprint-1	CMP-00025-00005-1		
Y21	Crystal 16.0000MHZ 12PF SMD	16Mhz 12pF	New footprint 1	CMP-003-00006-1		