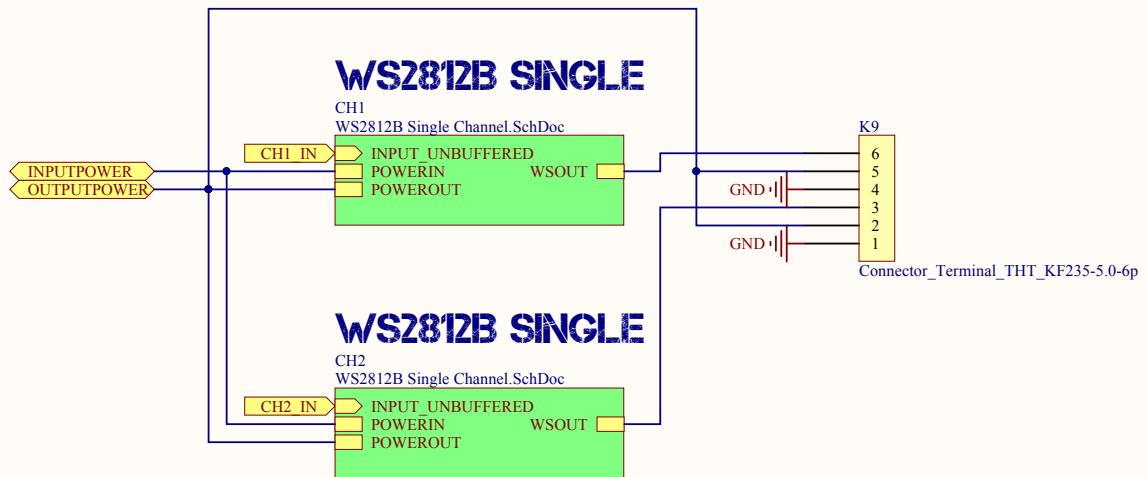


A

WS2812B



B

C

D

A

B

C

D

Title *			*
Size: A4	Number: 20	Revision: *	*
Date: 1/17/2015	Time: 10:28:01 PM	Sheet AL 60036	*
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1

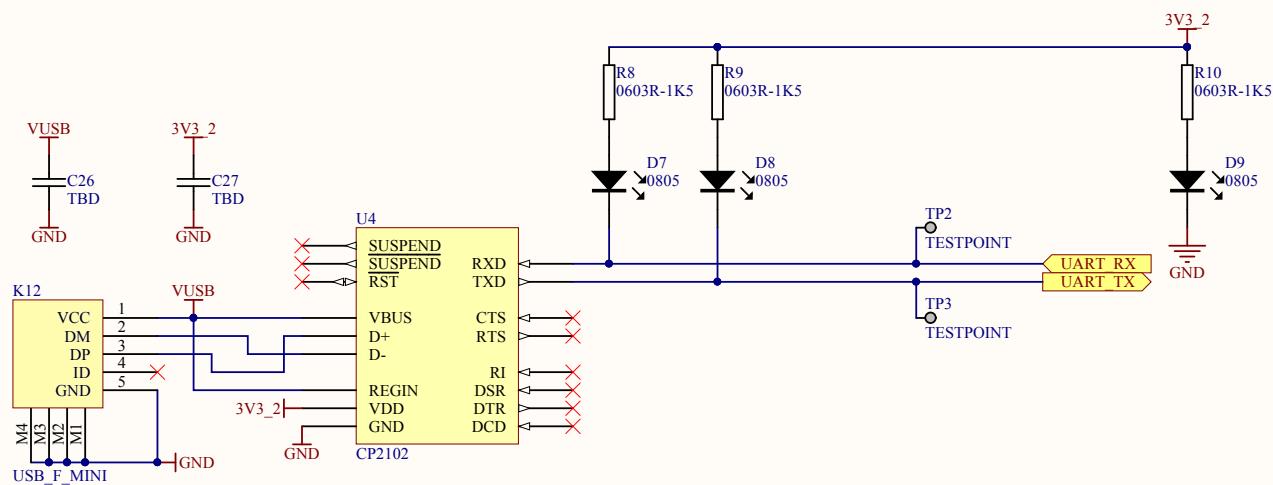
2

3

4

A

A



B

B

C

C

D

D

UART

Title *			*
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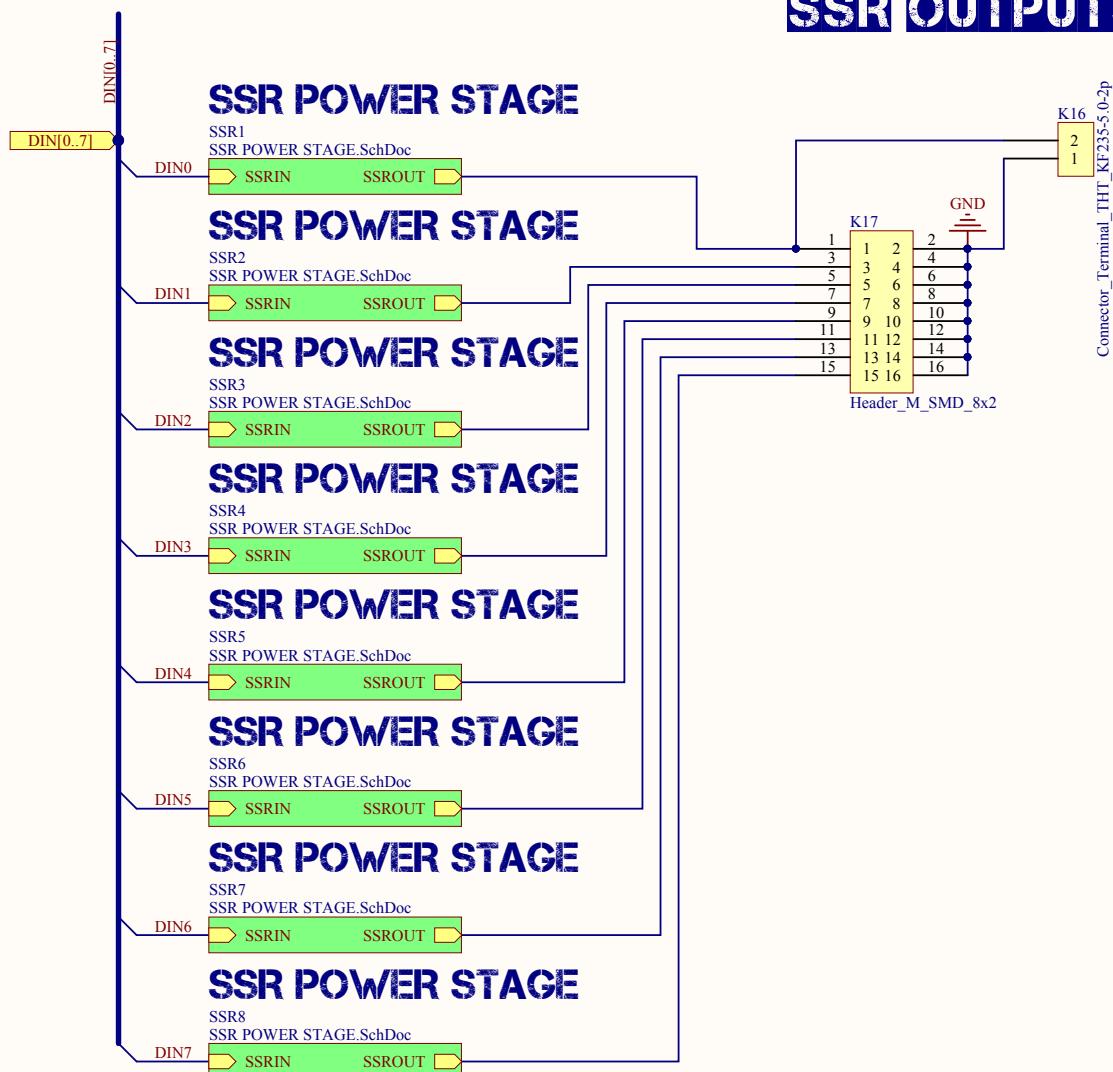
1

2

3

4

SSR OUTPUTS



Title *			*
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Date: 1/17/2015	Time: 10:28:01 PM	Sheet AL60036	*
File: Z:\iCloud Drive\PROJECTS\ALTIUM\ALT0056 - Carnaval 2015 Universal PCB REV A\SSR OUTPUTS.SchDoc			Altium

1

2

3

4

A

A

B

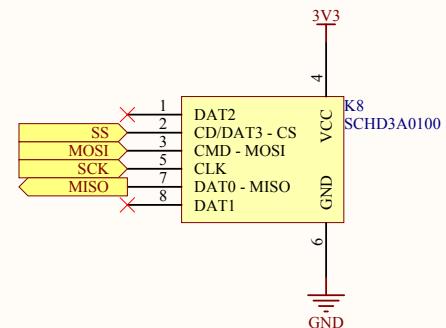
B

C

C

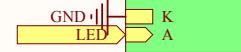
D

D

SD**LEDS**

SDLED

LEDs.SchDoc



Title *			*
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Date: 1/17/2015	Time: 10:28:02 PM	Sheet AL60036	*
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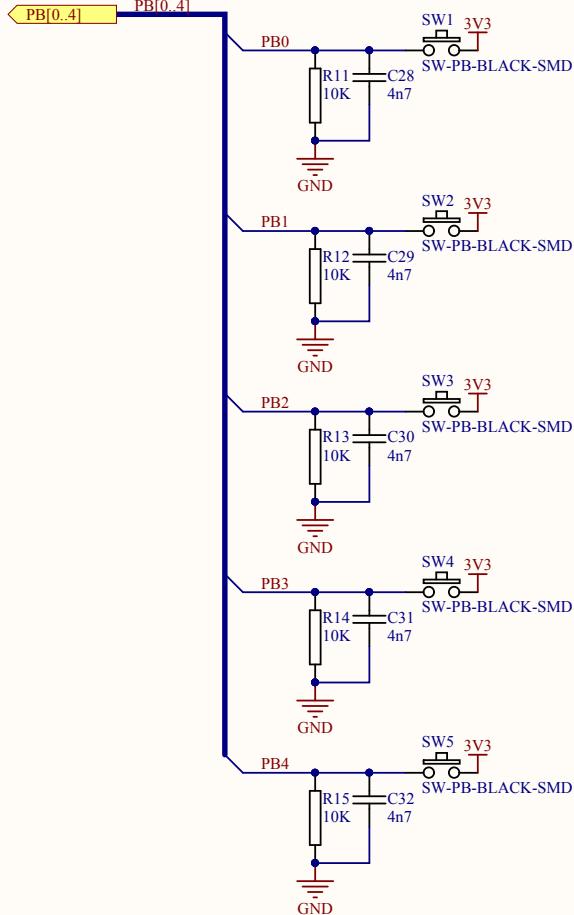
1

2

3

4

PUSHBUTTONS



A

B

C

D

Title *			*
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Date: 1/17/2015	Time: 10:28:02 PM	Sheet AL60036	*
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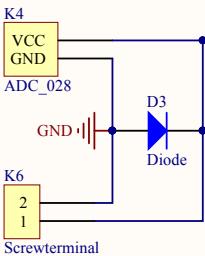
1

2

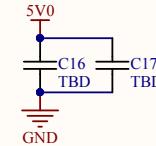
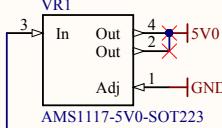
3

4

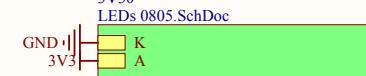
POWER SUPPLY



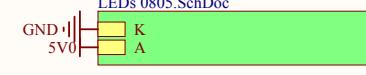
VRAW



LEDS 0805



LEDS 0805

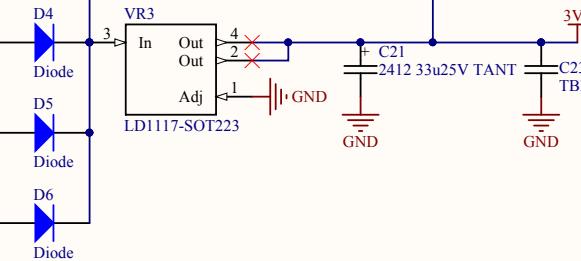
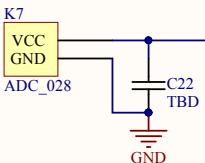


BATTERY CHARGER

BAT1
Batterycharger.SchDoc

BATTERY CHARGER

BAT2
Batterycharger.SchDoc



C

D

Title: *

Size: A4 Number: 14 Revision: *

Date: 1/17/2015 Time: 10:28:02 PM Sheet AL60036

File: Z:\iCloud Drive\PROJECTS\ALTIUM\ALTO0056 - Carnaval 2015 Universal PCB REV A\Power supply.SchDoc

Altium

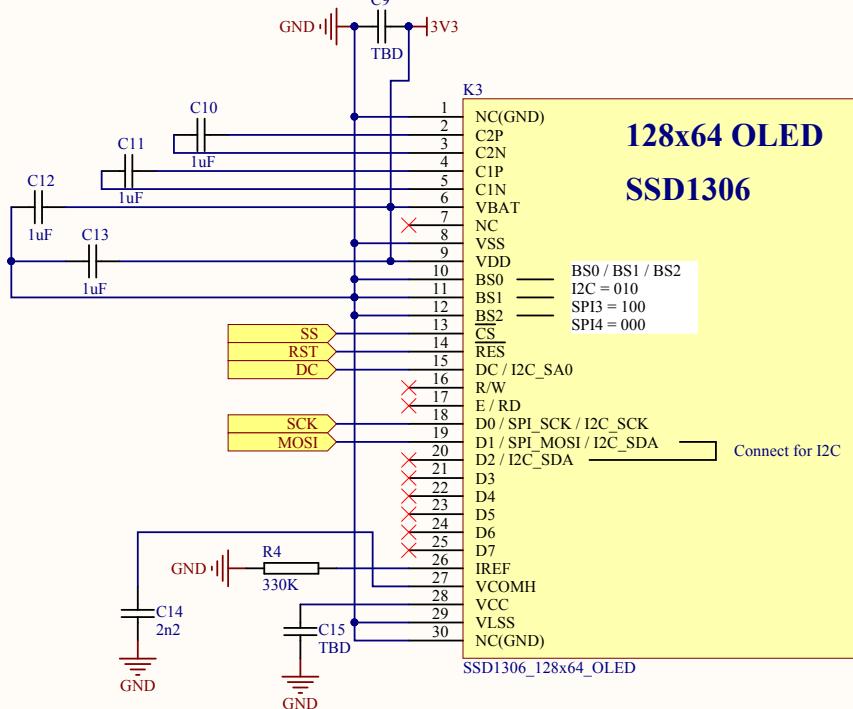
1

2

3

4

A

OLED

B

A

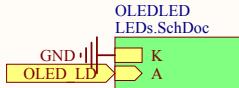
B

C

C

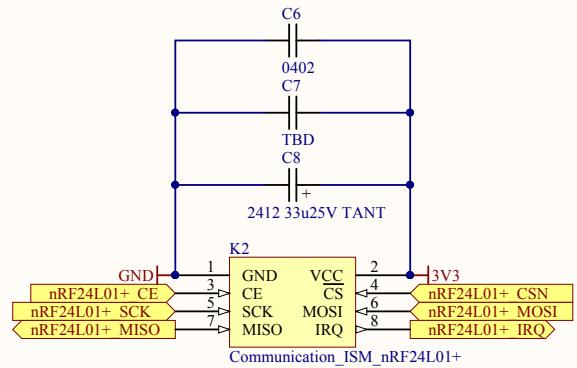
D

D

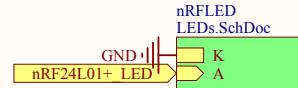
LEDS

Title *			*
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NRF24L01P

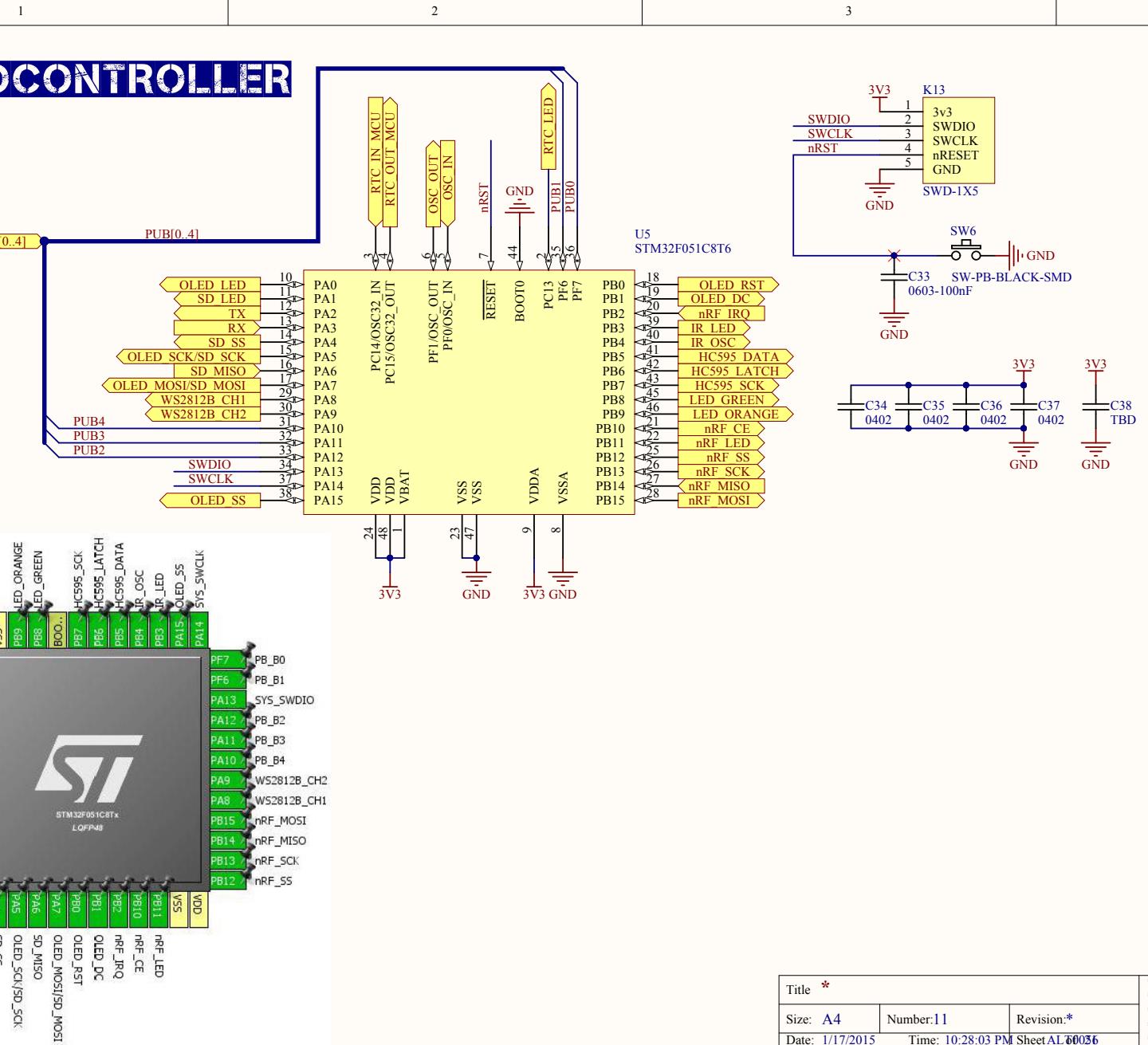


LEDS



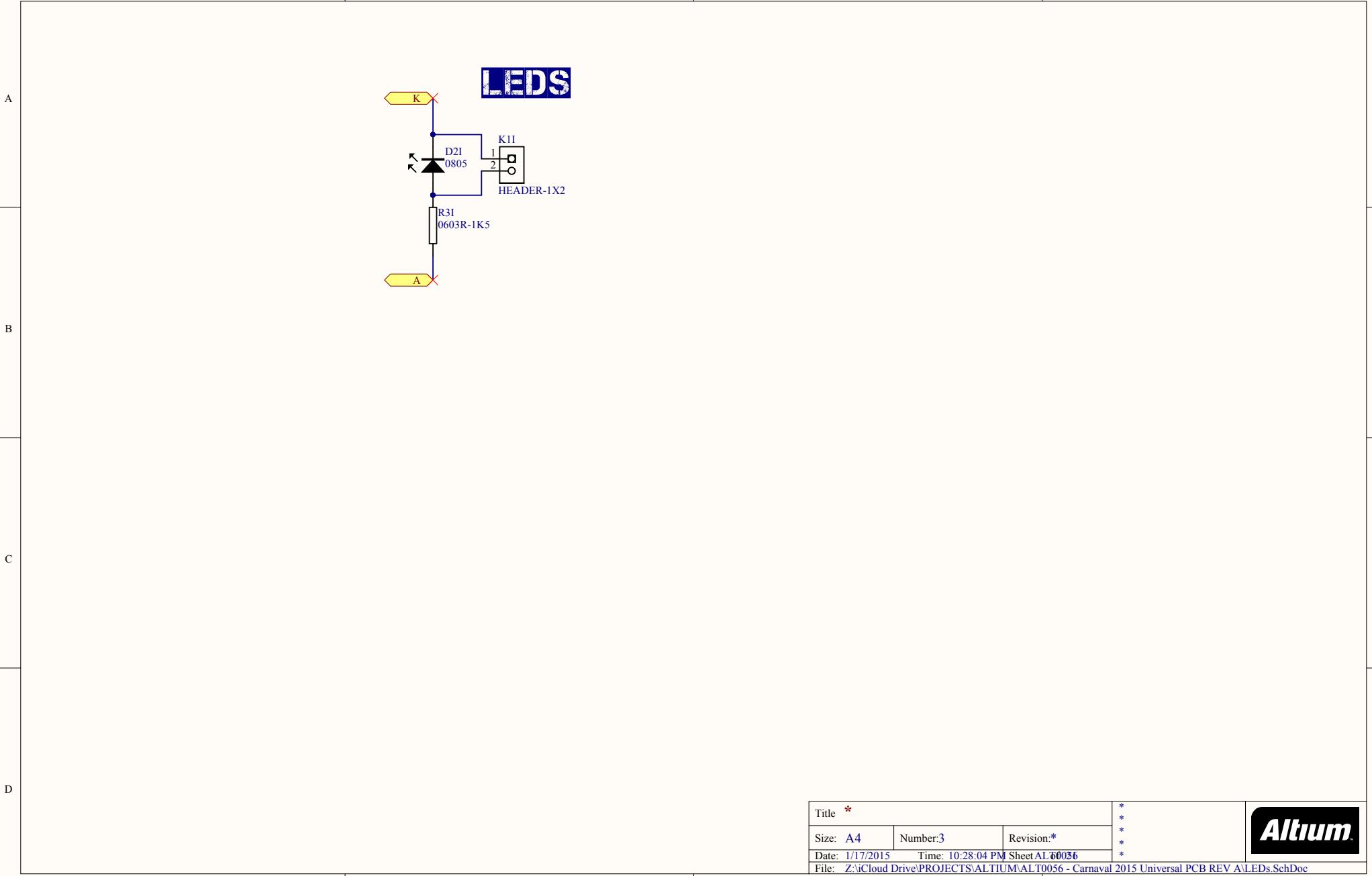
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MICROCONTROLLER

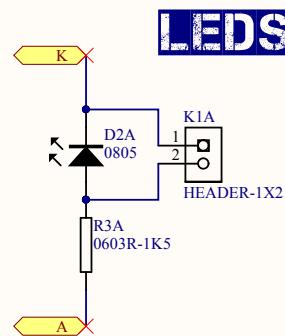


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Altium



Title *			*
Size: A4	Number: 3	Revision: *	*
Date: 1/17/2015	Time: 10:28:04 PM	Sheet AL 60036	*
File: Z:\iCloud Drive\PROJECTS\ALTIUM\ALTO0056 - Carnaval 2015 Universal PCB REV A\LEDs.SchDoc			Altium



A

A

B

B

C

C

D

D

Title *			*
Size: A4	Number:3	Revision:*	*
Date: 1/17/2015	Time: 10:28:04 PM	Sheet AL60036	*
File: Z:\iCloud Drive\PROJECTS\ALTIUM\ALTO0056 - Carnaval 2015 Universal PCB REV A\LEDs.SchDoc			Altium

A

A

B

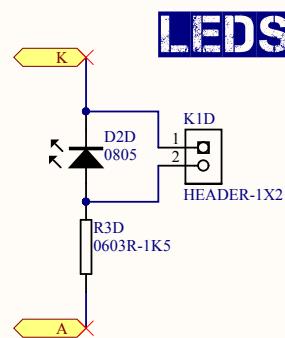
B

C

C

D

D



Title *			*
Size: A4	Number: 3	Revision: *	*
Date: 1/17/2015	Time: 10:28:04 PM	Sheet AL 60036	*
File: Z:\iCloud Drive\PROJECTS\ALTIUM\ALTO0056 - Carnaval 2015 Universal PCB REV A\LEDs.SchDoc			Altium

A

A

B

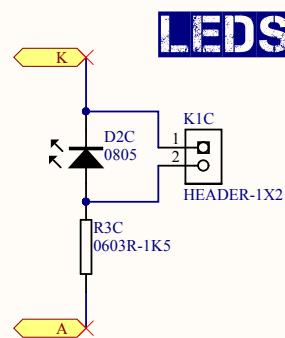
B

C

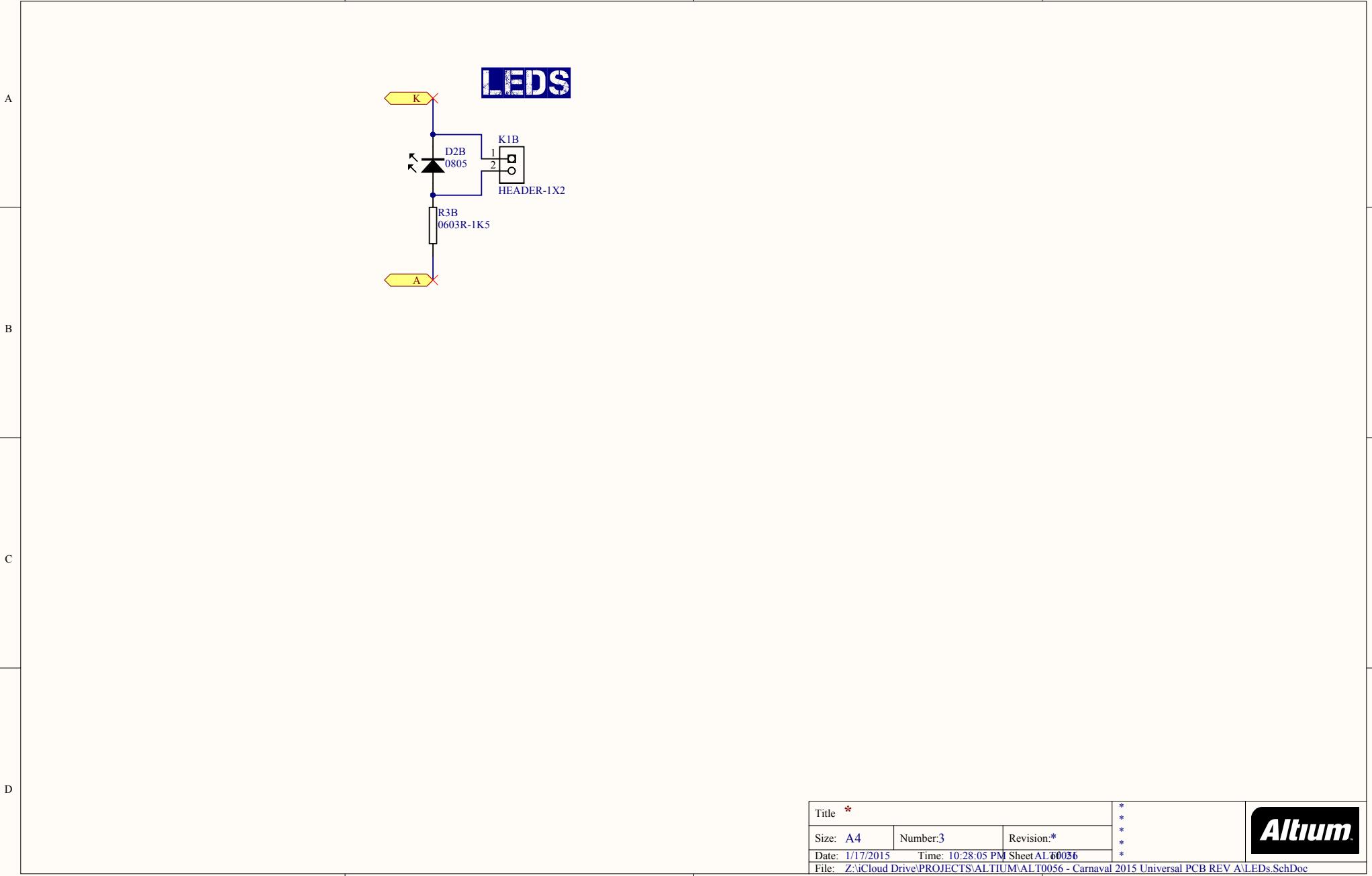
C

D

D

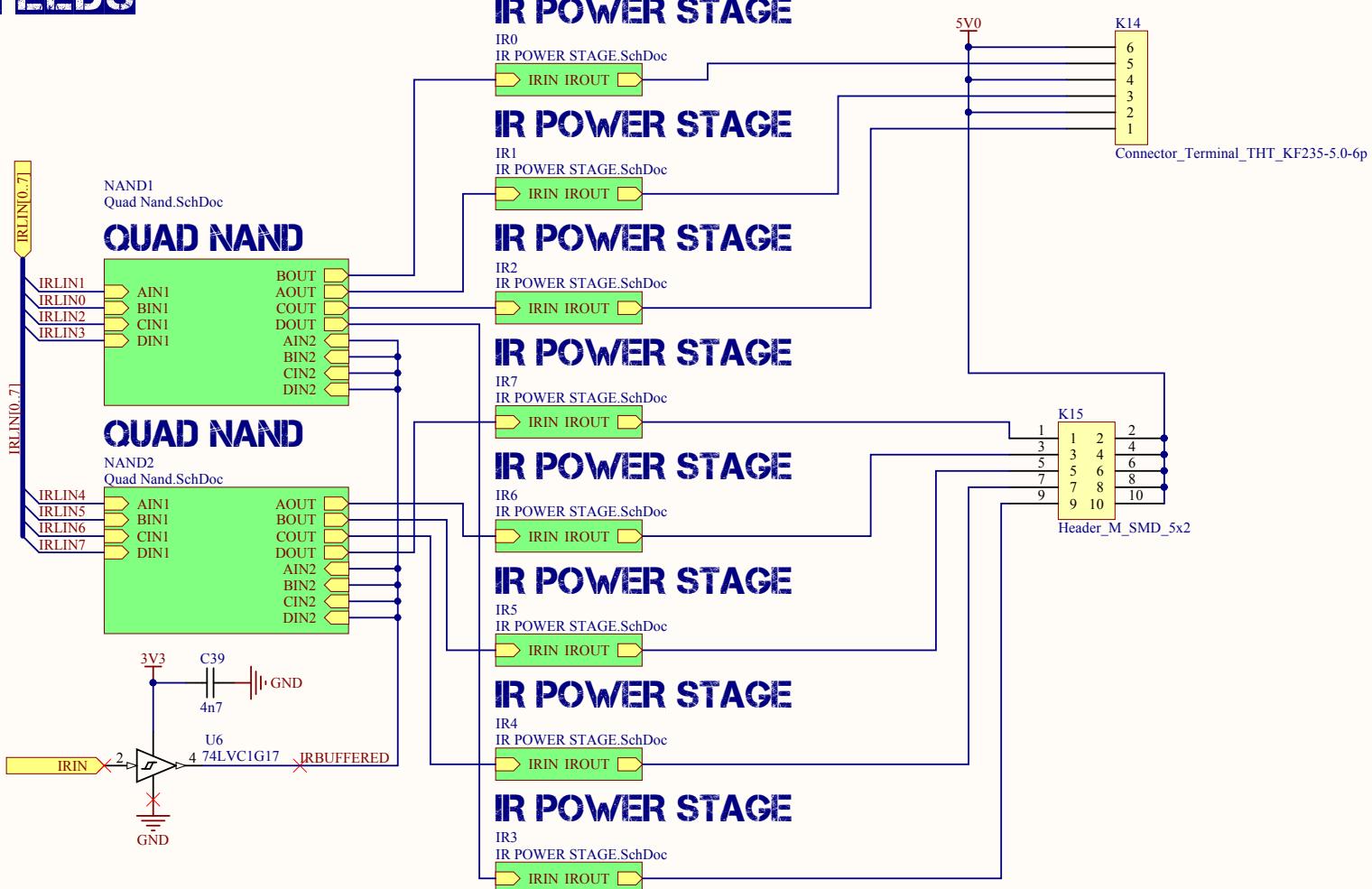


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Title *			*
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Date: 1/17/2015	Time: 10:28:05 PM	Sheet AL 60036	*
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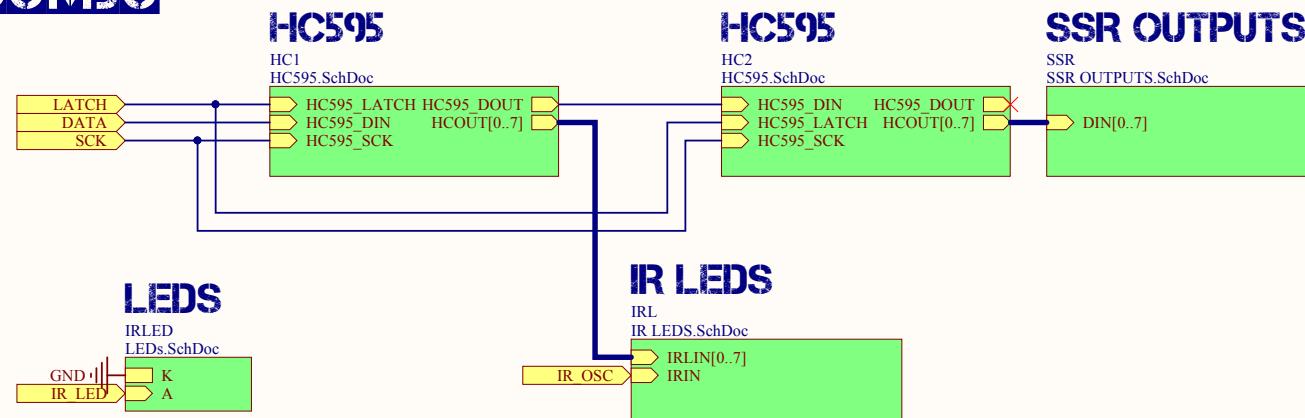
IR LEDS



Title *	*
Size: A4	Number:6
Date: 1/17/2015	Revision:*
Time: 10:28:05 PM	Sheet AL60036
File: Z:\iCloud Drive\PROJECTS\ALTIUM\ALT0056 - Carnaval 2015 Universal PCB REV A\IR LEDS.SchDoc	

Altium

HC595 IR COMBO

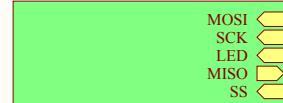


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GENERAL OVERVIEW

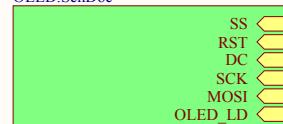
SD

SD.SchDoc



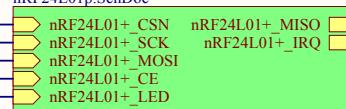
OLED

OLED
OLED.SchDoc



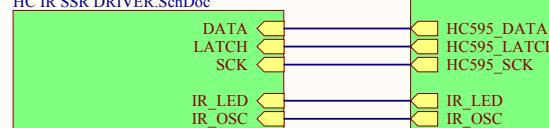
NRF24L01P

nRF
nRF24L01p.SchDoc



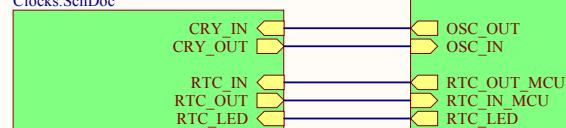
HC595 IR COMBO

IR
HC IR SSR DRIVER.SchDoc



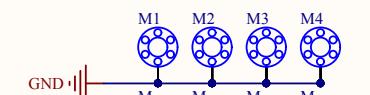
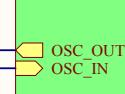
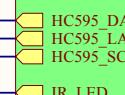
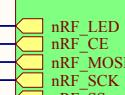
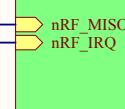
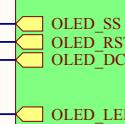
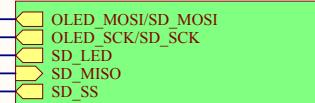
CLOCKS

CLK
Clocks.SchDoc



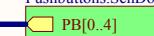
MICROCONTROLLER

MCU
Microcontroller.SchDoc



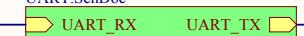
PUSHBUTTONS

PB
Pushbuttons.SchDoc



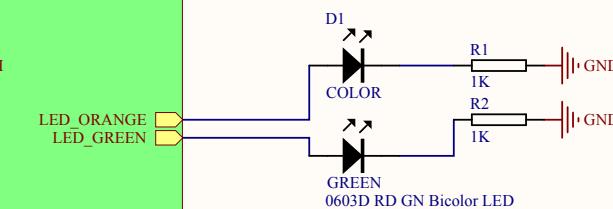
UART

UA
UART.SchDoc



WS2812B

WS
WS2812B.SchDoc



POWER SUPPLY

PS
Power supply.SchDoc

Title **Sheetname**

Size: A4 Number:1 Revision:B

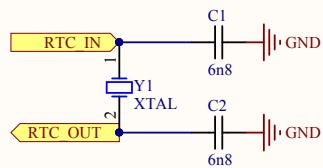
Date: 1/17/2015 Time: 10:28:06 PM Sheet AL60036

File: Z:\iCloud Drive\PROJECTS\ALTIUM\ALTO0056 - Carnaval 2015 Universal PCB REV A\General Overview.SchDoc

Overload, Inc.
Robbe Van Assche
Belgium
2013
SE - Carnaval kleding REV B

Altium

A

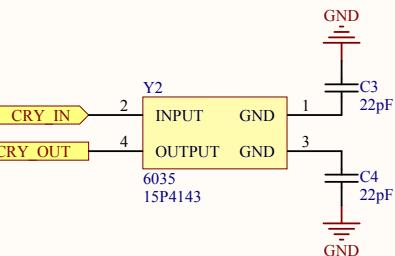
**LEDS**

RTCLED

LEDs.SchDoc

**CLOCKS**

B



C

D

A

B

C

D

Title *			*
Size: A4	Number:2	Revision:*	*
Date: 1/17/2015	Time: 10:28:06 PM	Sheet AL60036	*
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A

A

B

B

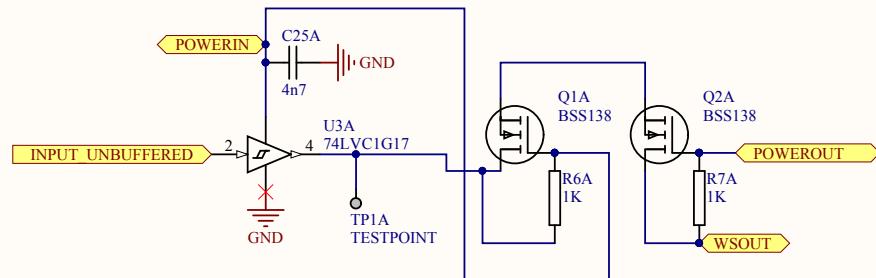
C

C

D

D

WS2812B SINGLE

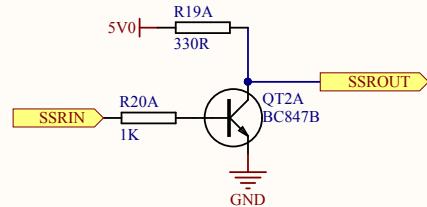


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File: Z:\iCloud Drive\PROJECTS\ALTIUM\ALT0056 - Carnaval 2015 Universal PCB REV A\WS2812B Single Channel.schDoc			Altium

A

A

SSR POWER STAGE



B

B

C

C

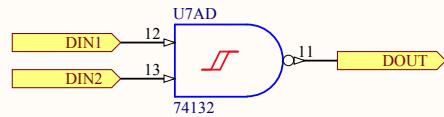
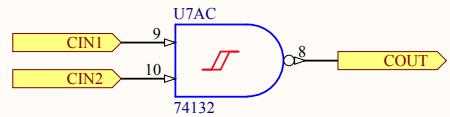
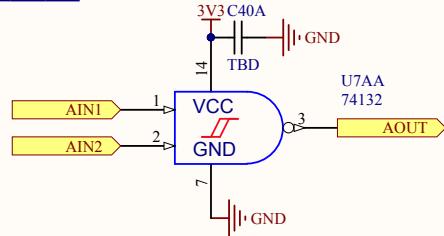
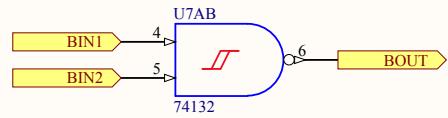
D

D

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A

QUAD NAND



A

B

C

D

Title *	*
Size: A4	Number: 8
Date: 1/17/2015	Time: 10:28:07 PM Sheet AL_60036
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A

A

B

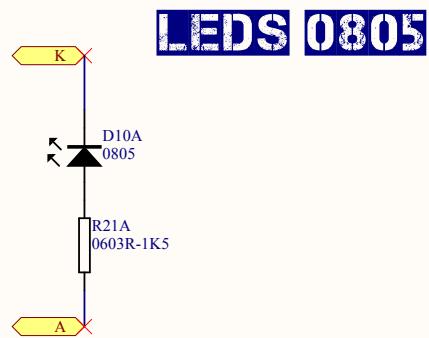
B

C

C

D

D

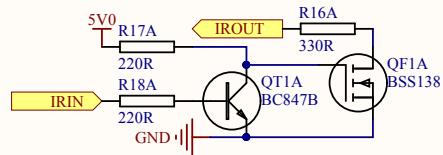


Title			Altium Limited L3, 12a Rodborough Rd Frenchs Forest NSW Australia 2086
Size: A4	Number: 16	Revision:	
Date: 1/17/2015	Time: 10:28:07 PM	Sheet AL0036	
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A

A

IR POWER STAGE



B

B

C

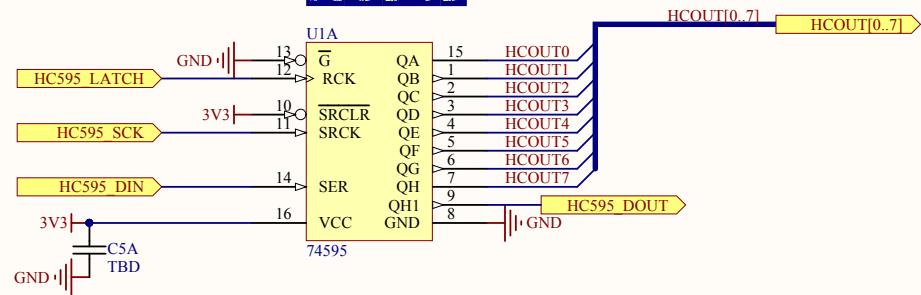
C

D

D

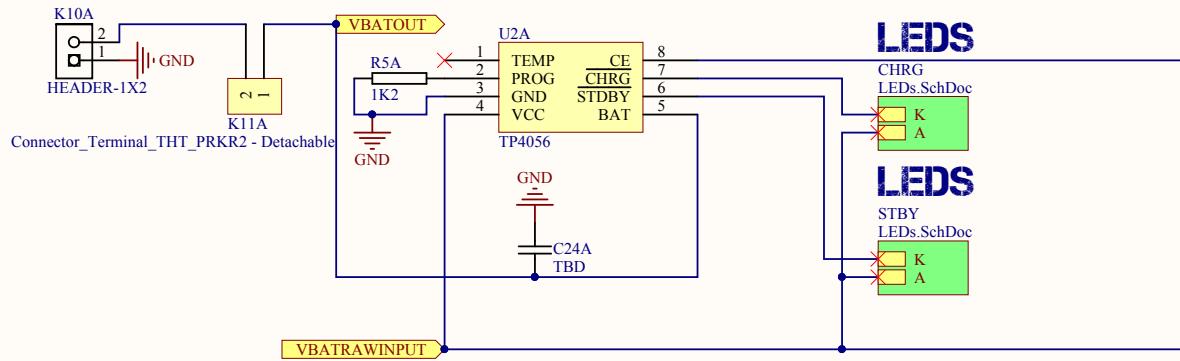
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HC595



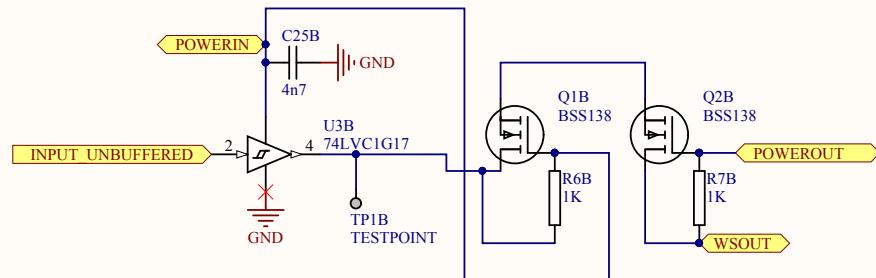
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BATTERY CHARGER



Title *			*
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WS2812B SINGLE

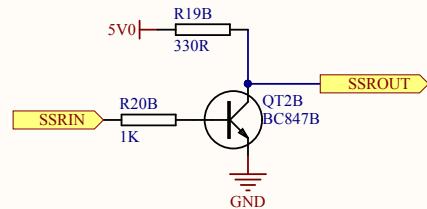


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A

A

SSR POWER STAGE



B

B

C

C

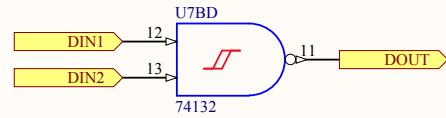
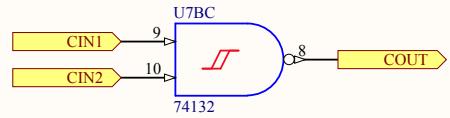
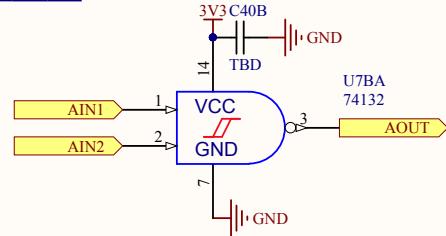
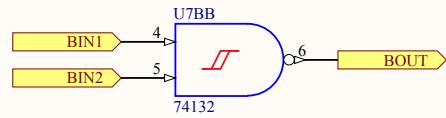
D

D

Title *			*
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A

QUAD NAND



A

B

C

D

Title *	*
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Date: 1/17/2015	Time: 10:28:09 PM Sheet AL 60036
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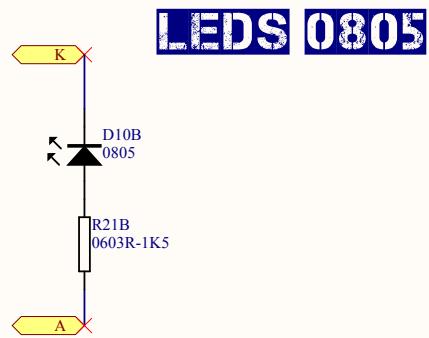
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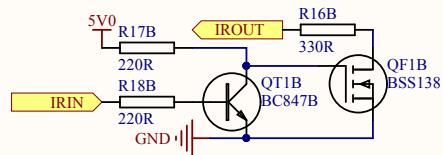


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IR POWER STAGE



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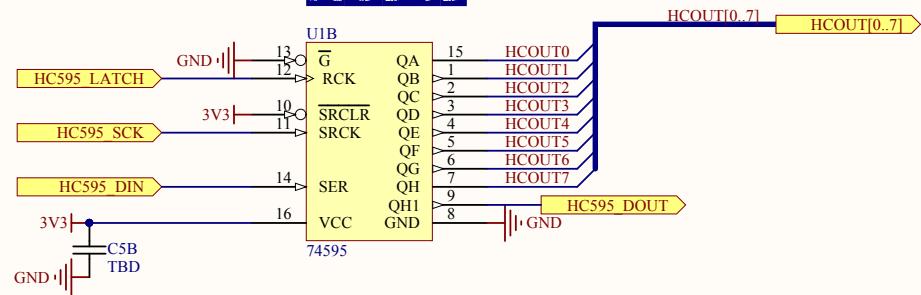
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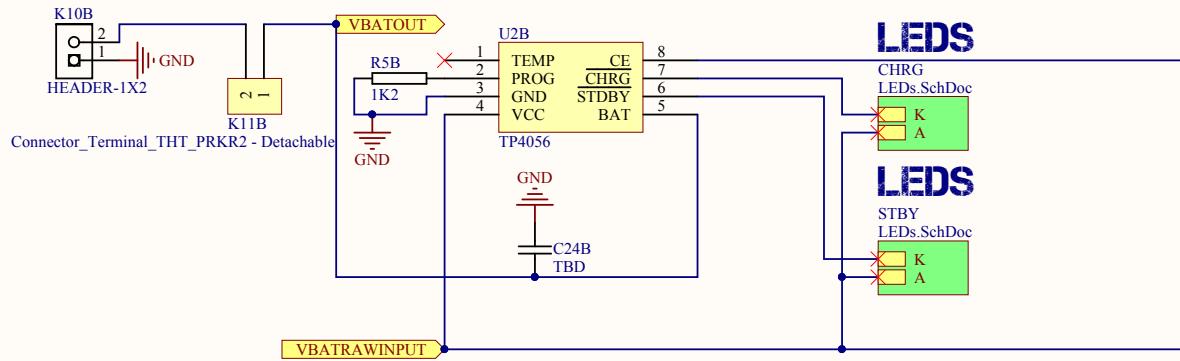
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HC595



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BATTERY CHARGER

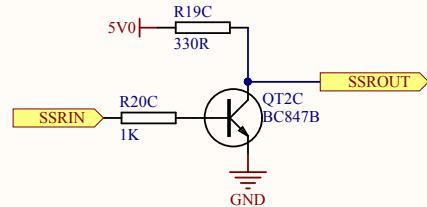


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SSR POWER STAGE



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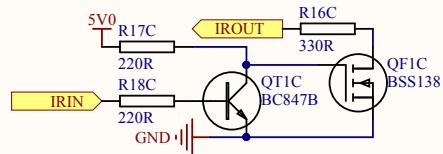
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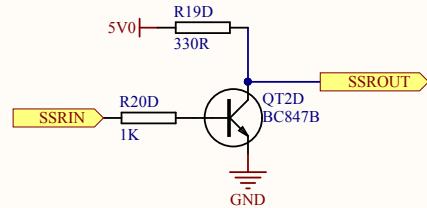
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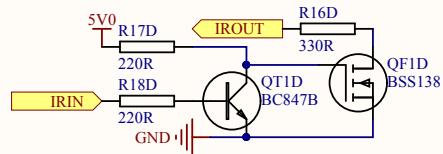
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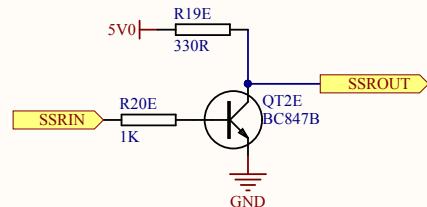
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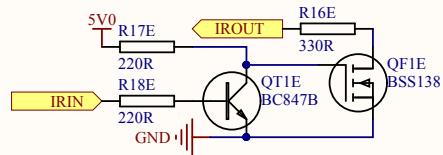
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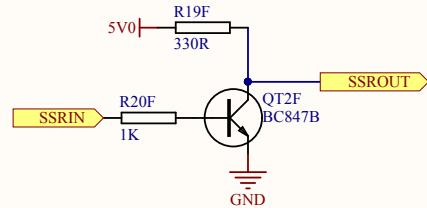
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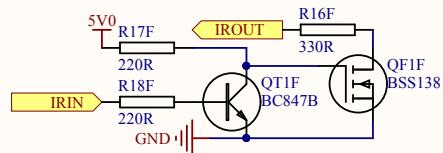
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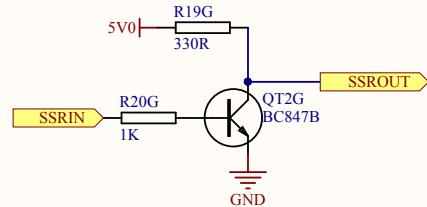
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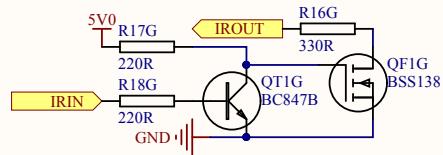
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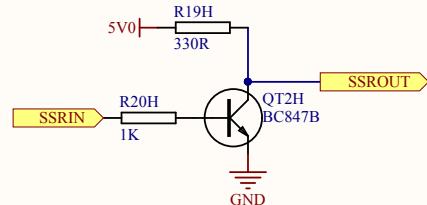
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File: Z:\Cloud Drive\PROJECTS\ALTIUM\ALTO0056 - Carnaval 2015 Universal PCB REV A\IR POWER STAGE.SchDoc			Altium

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SSR POWER STAGE



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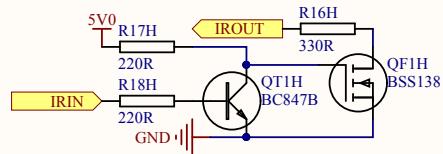
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Title *			*
Size: A4	Number: 7	Revision: *	*
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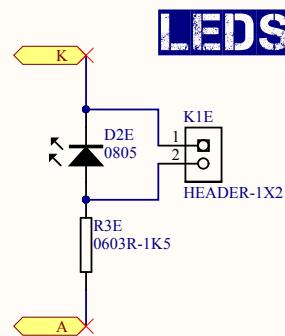
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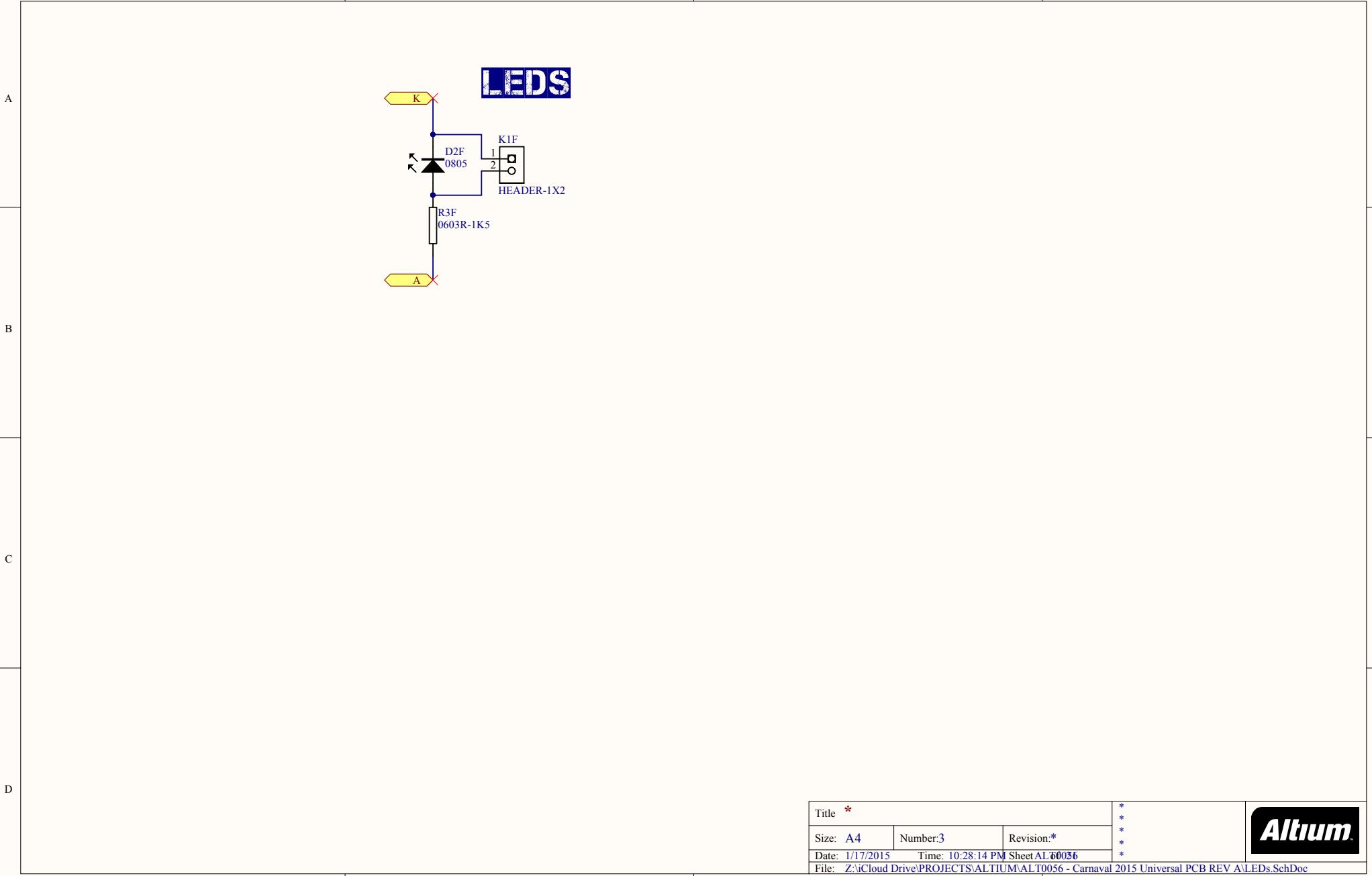
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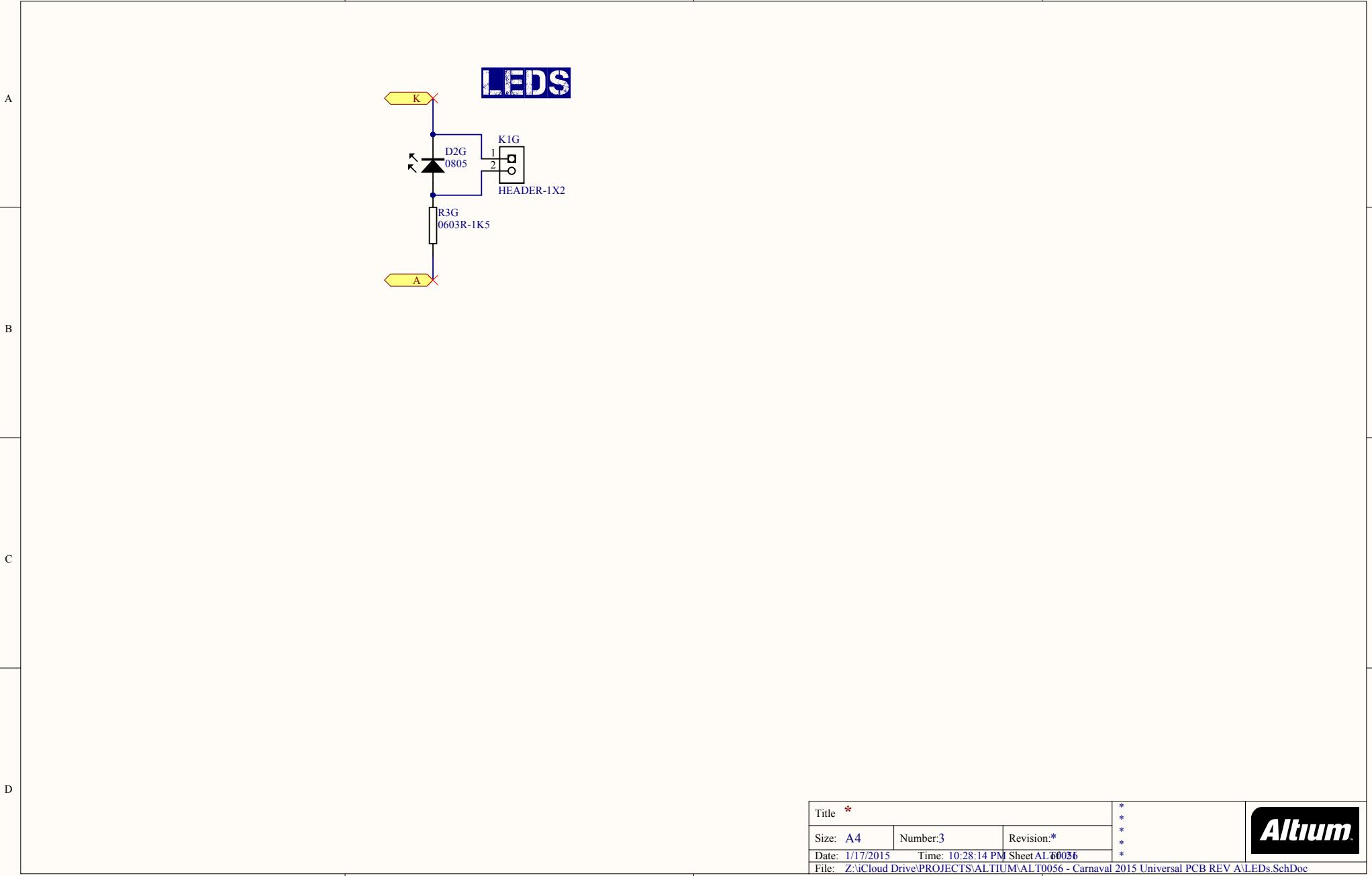
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Title *			*
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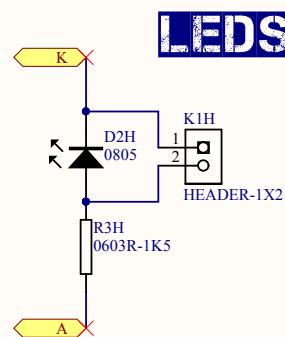
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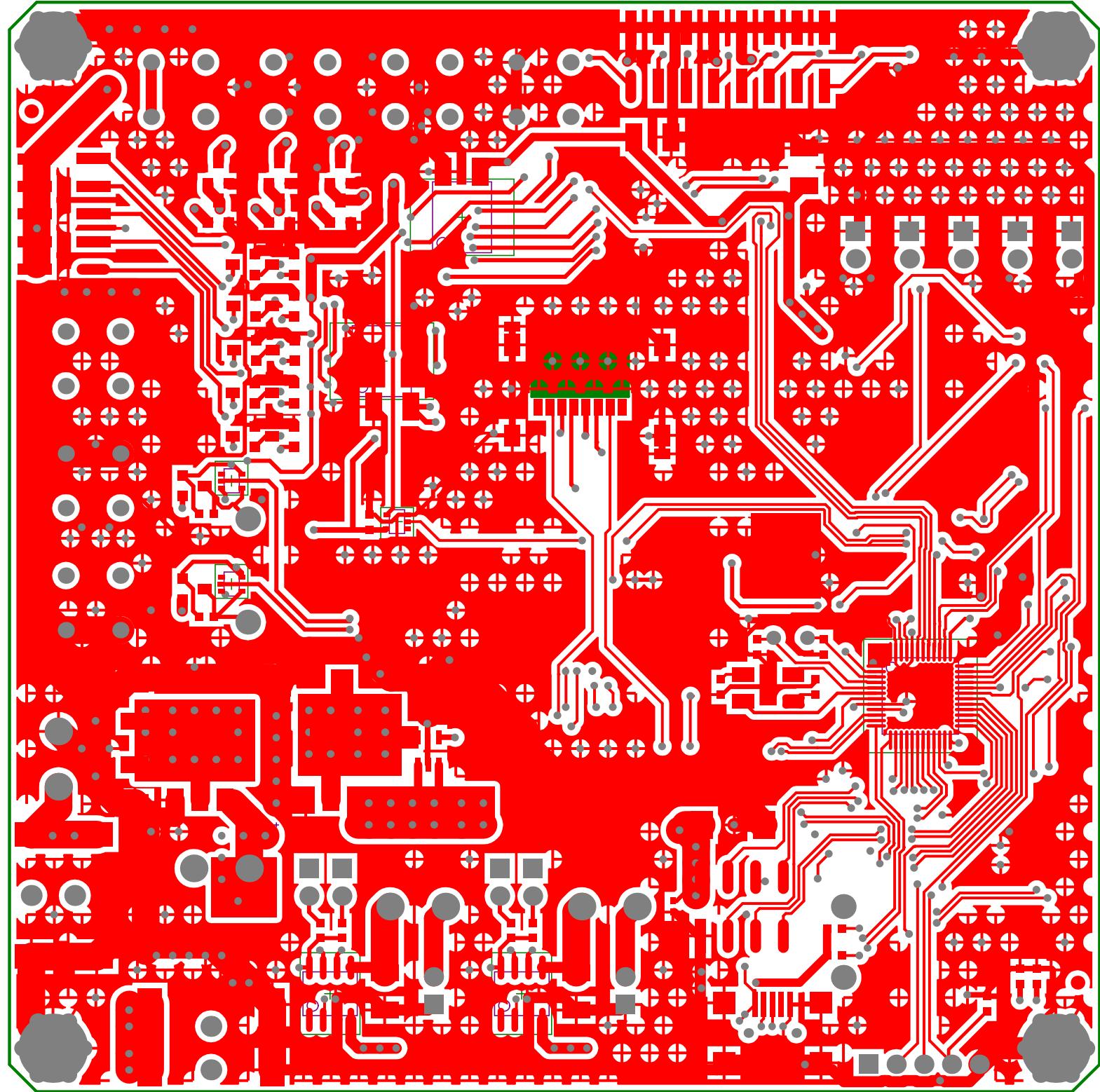
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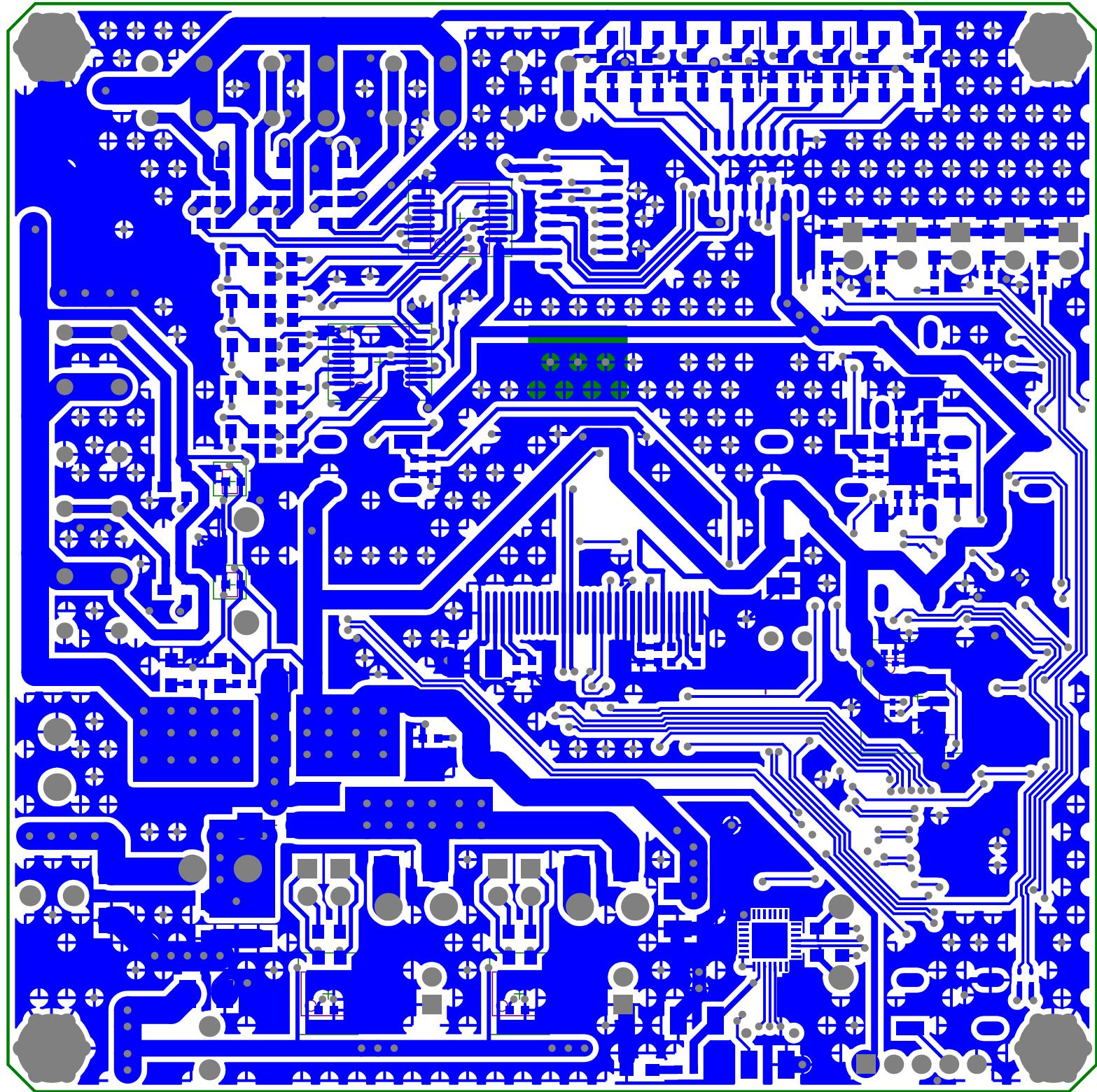
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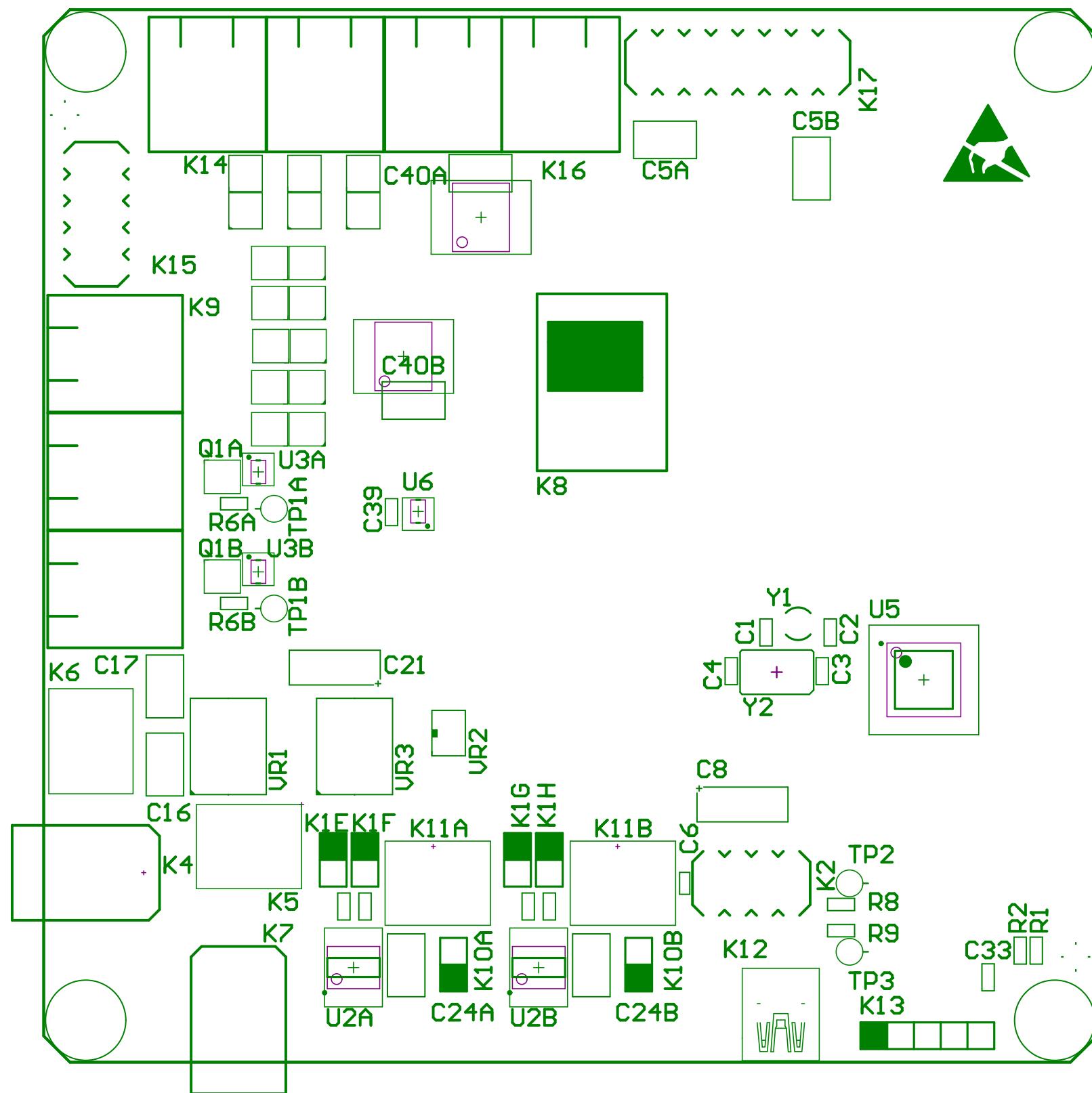
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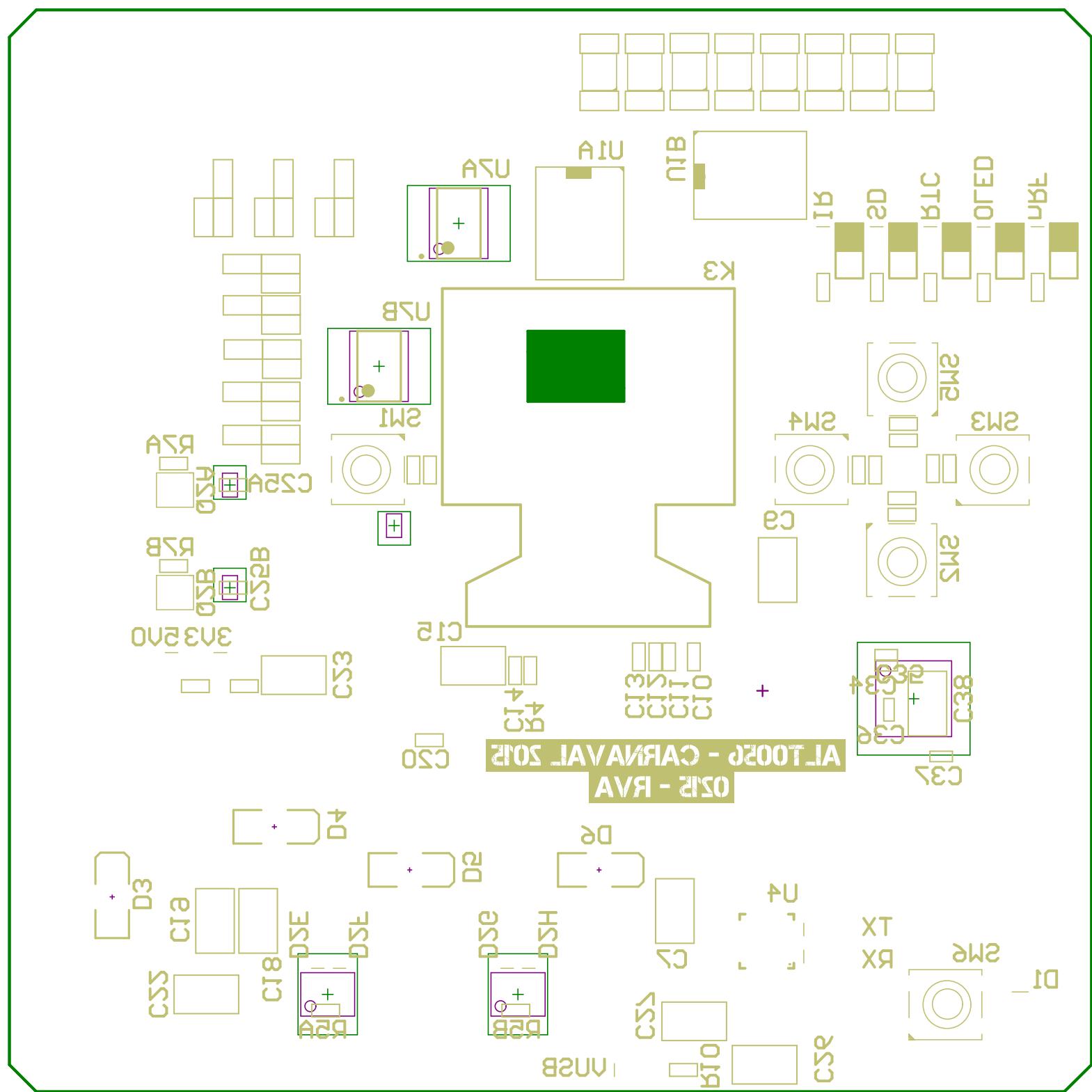


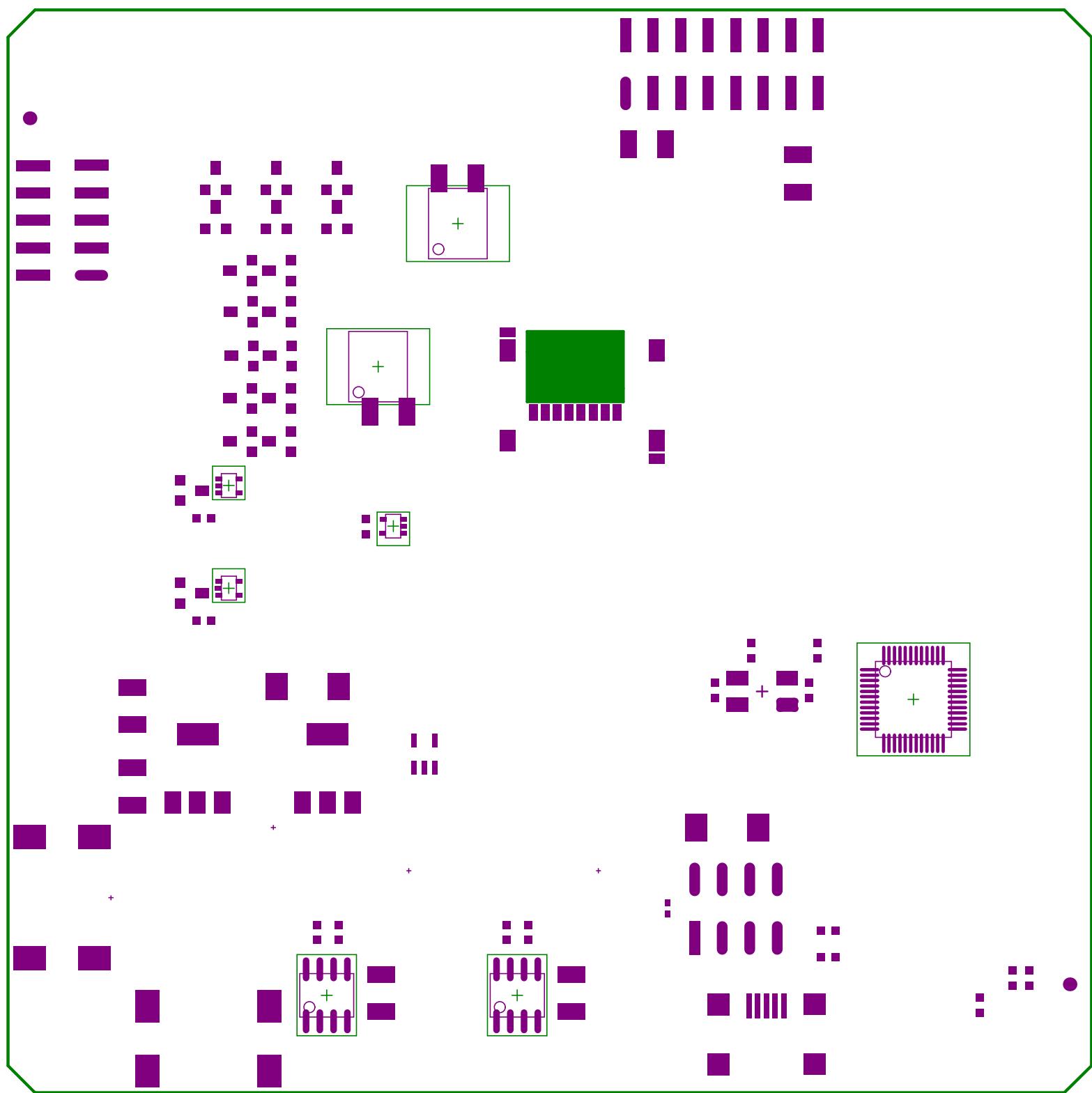
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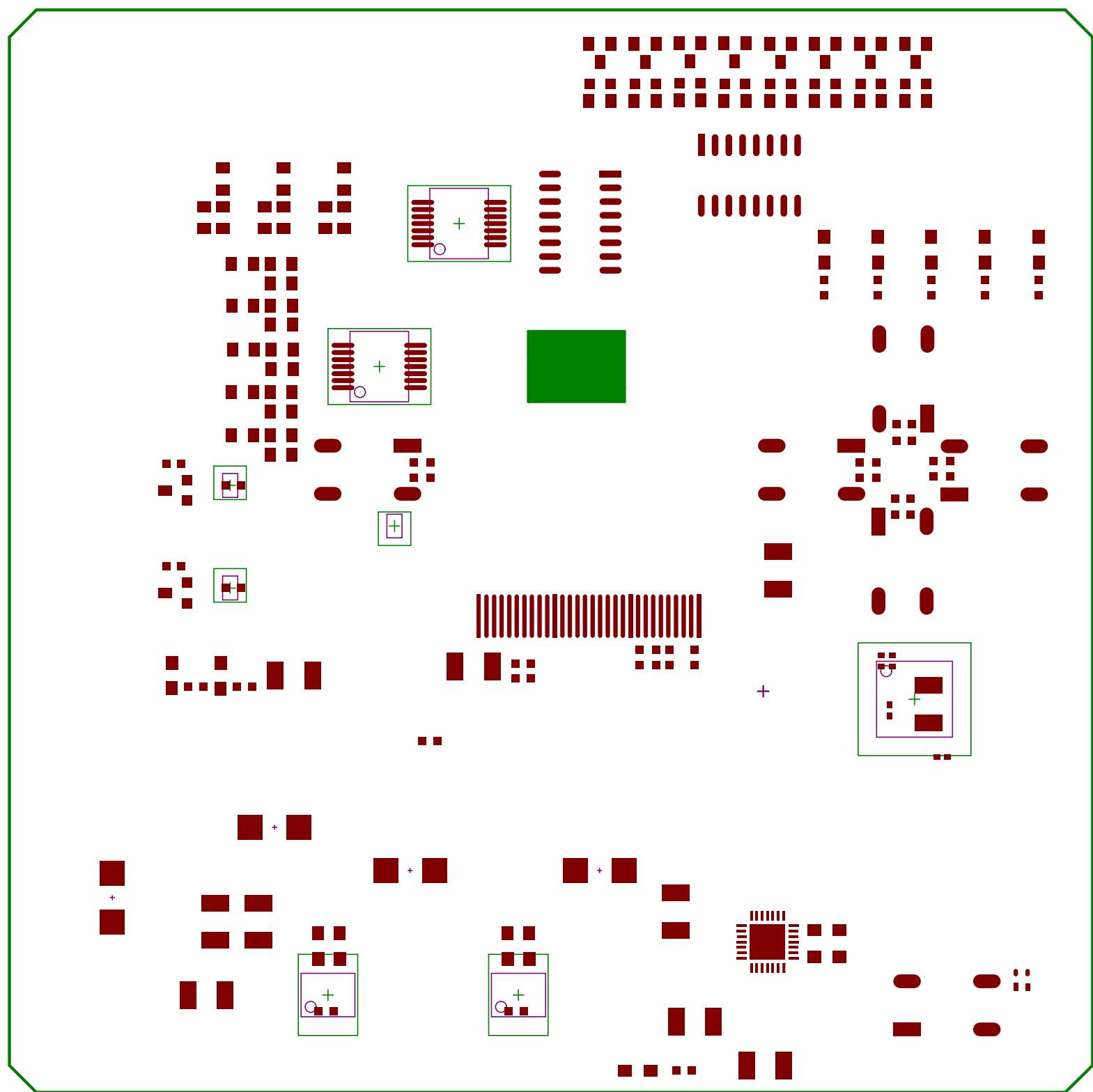


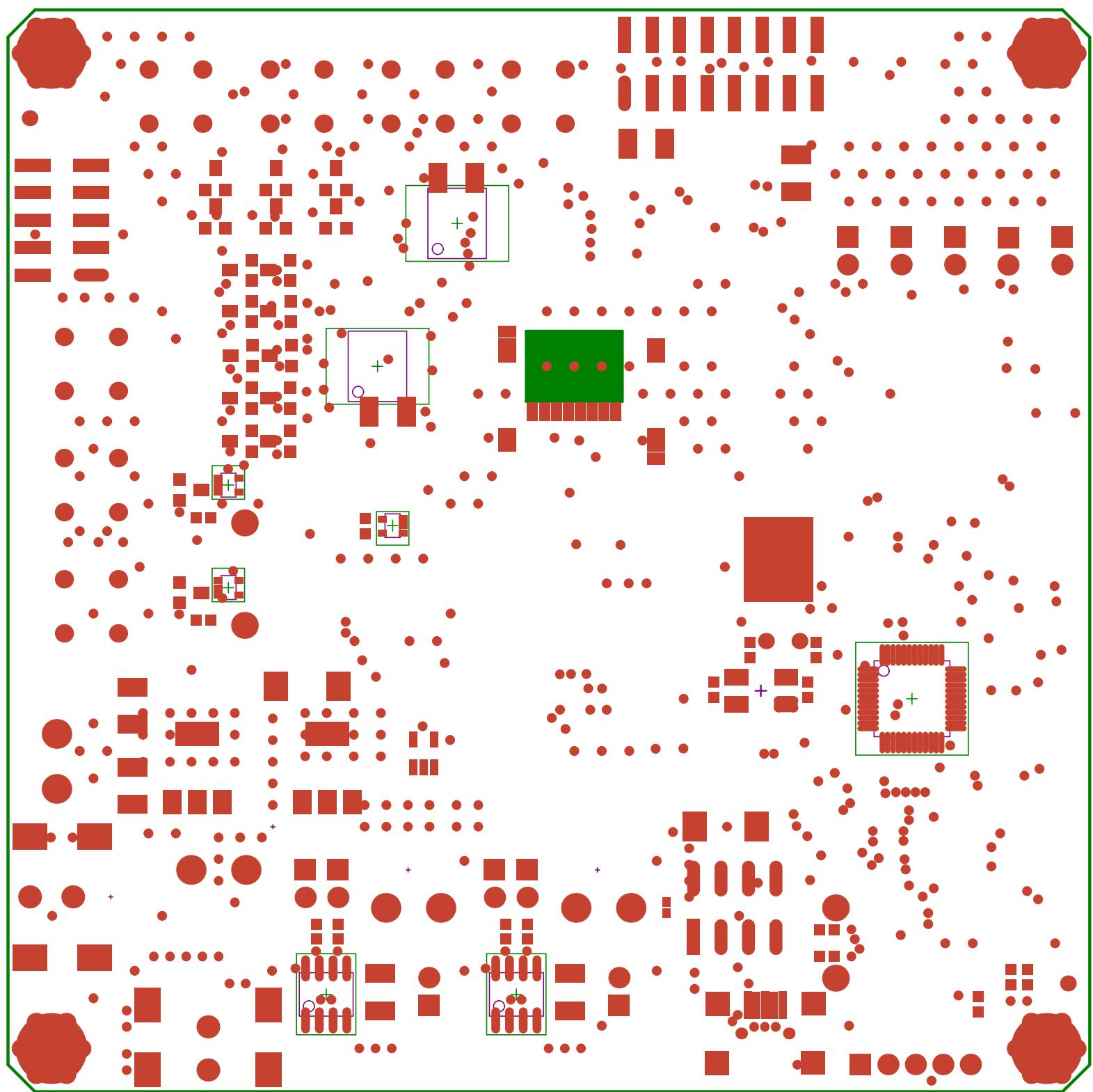


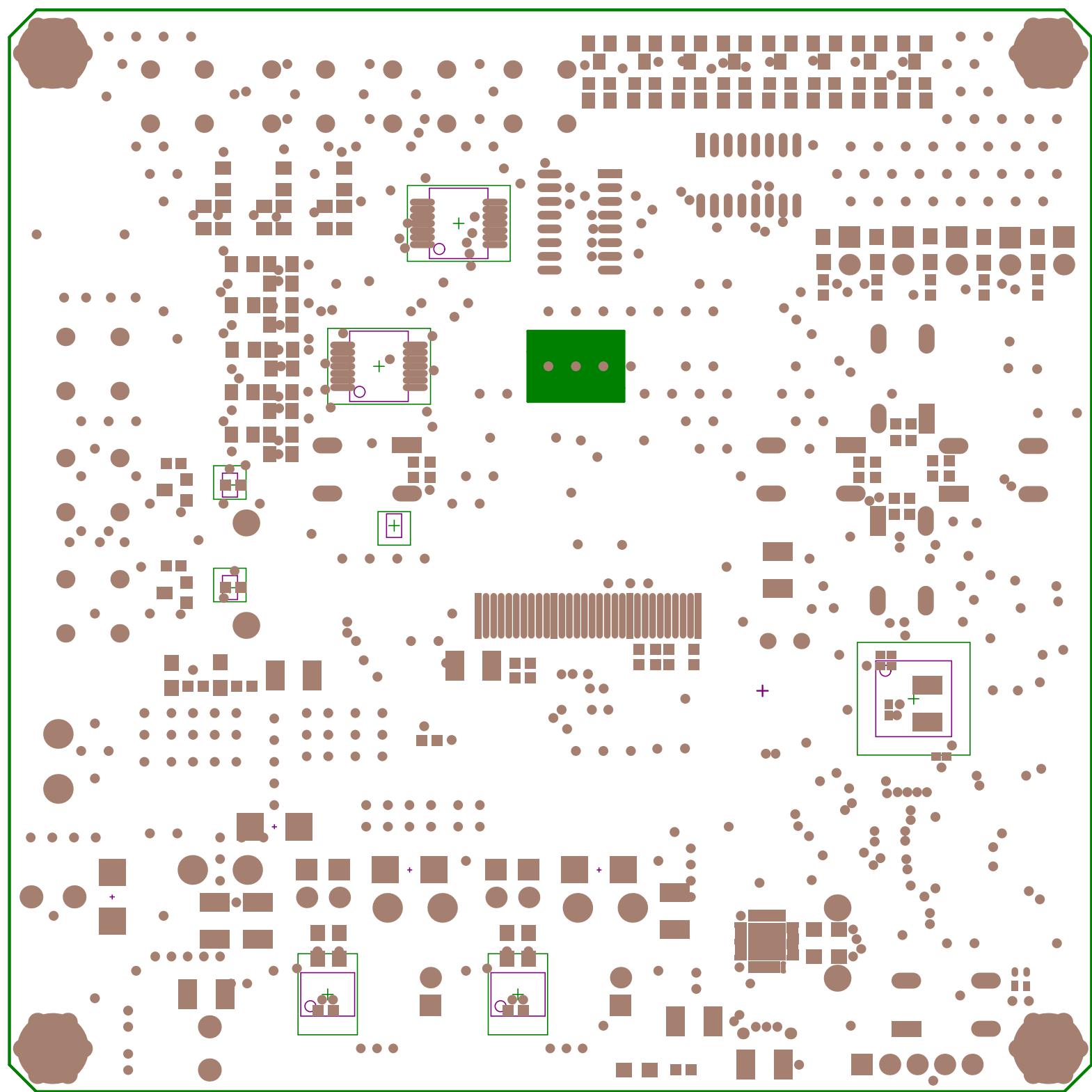


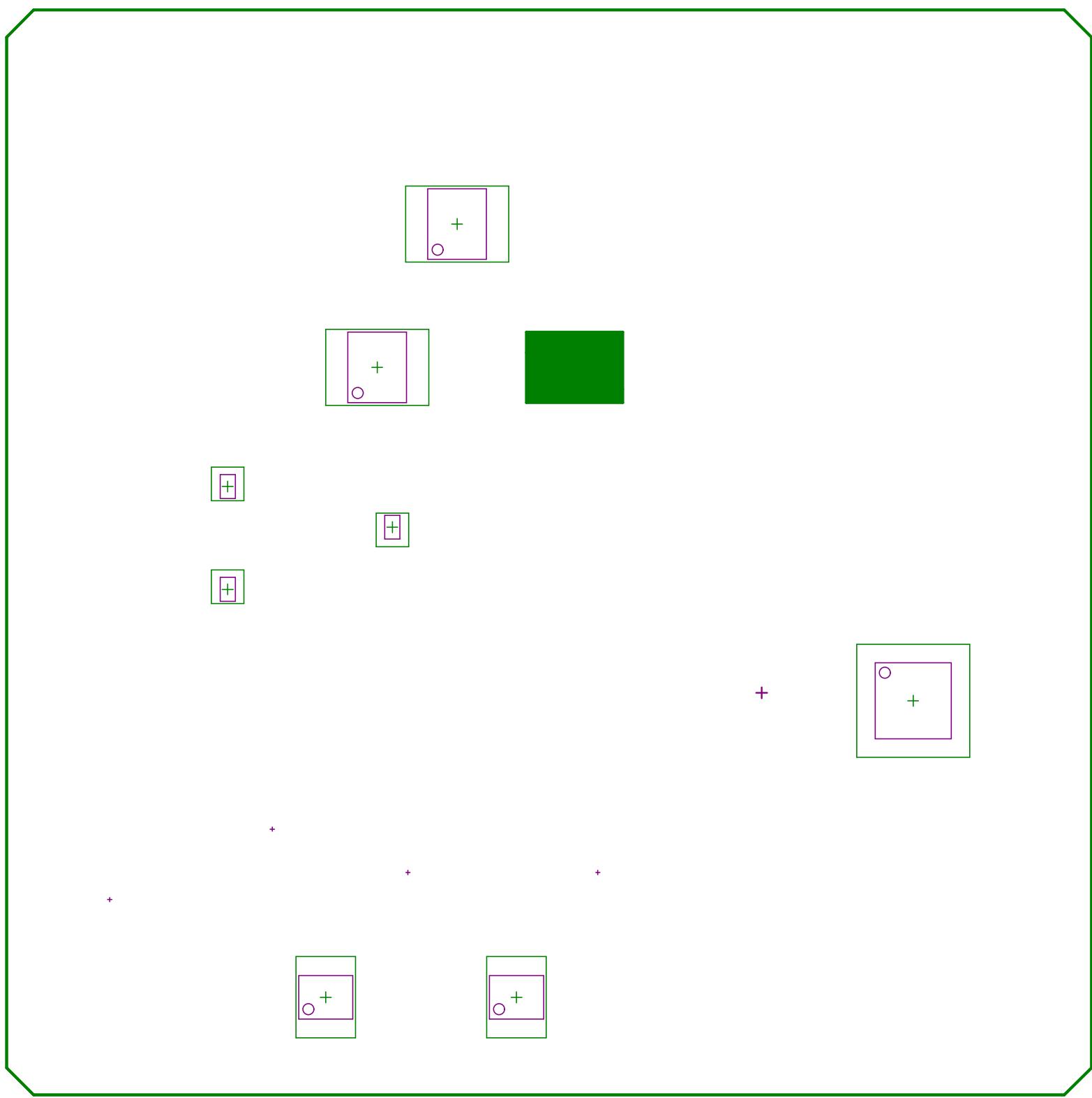


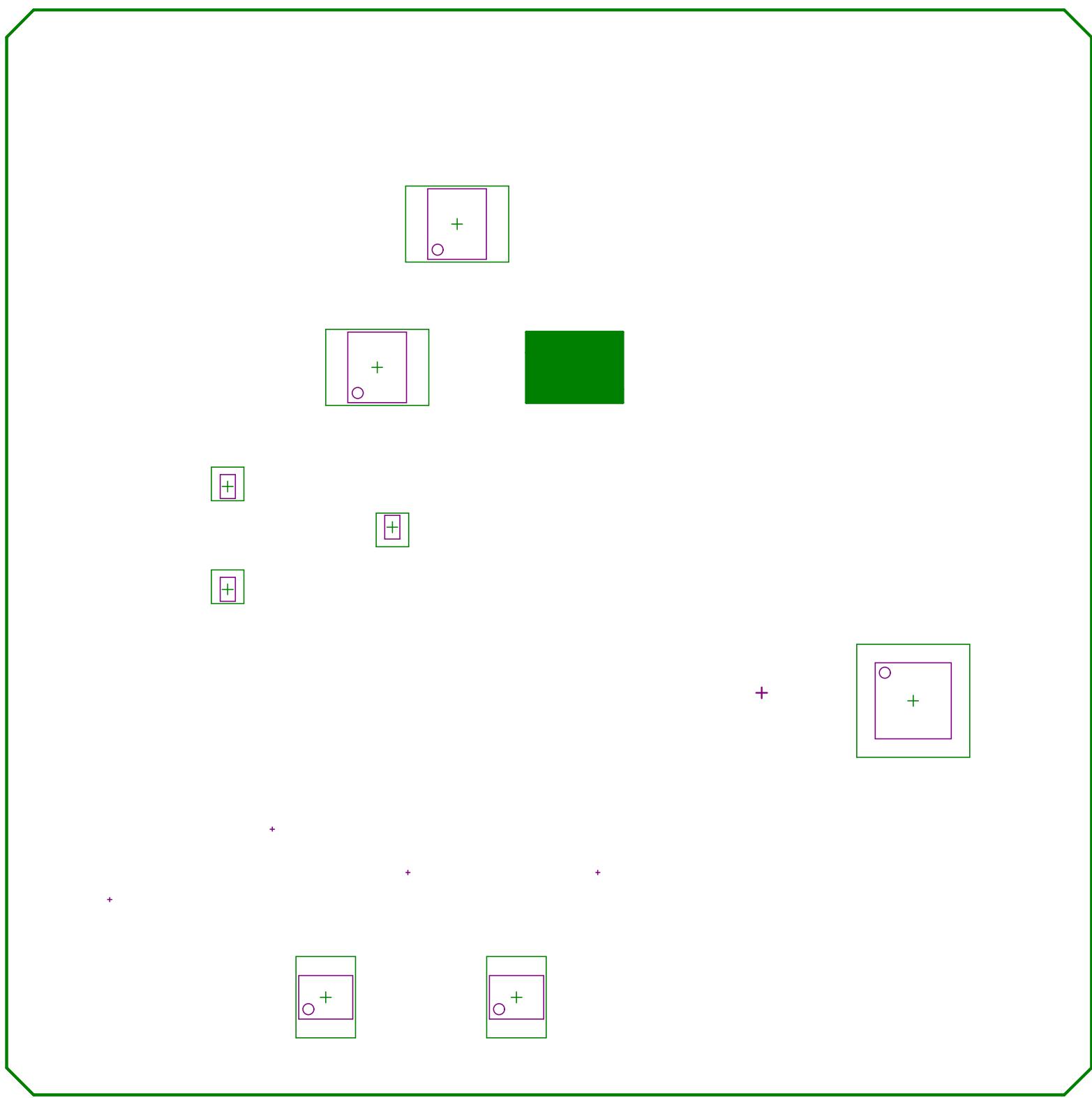


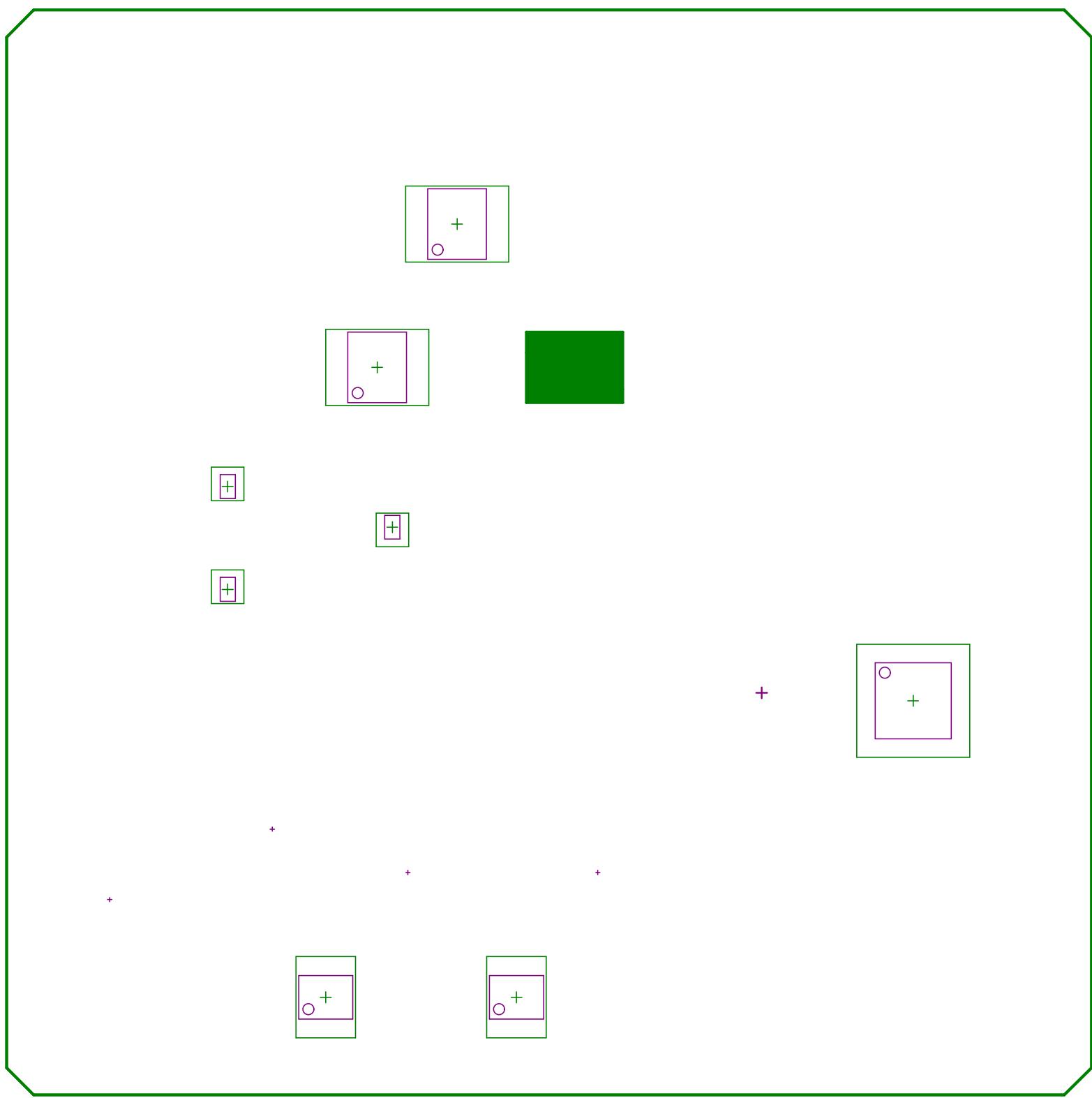


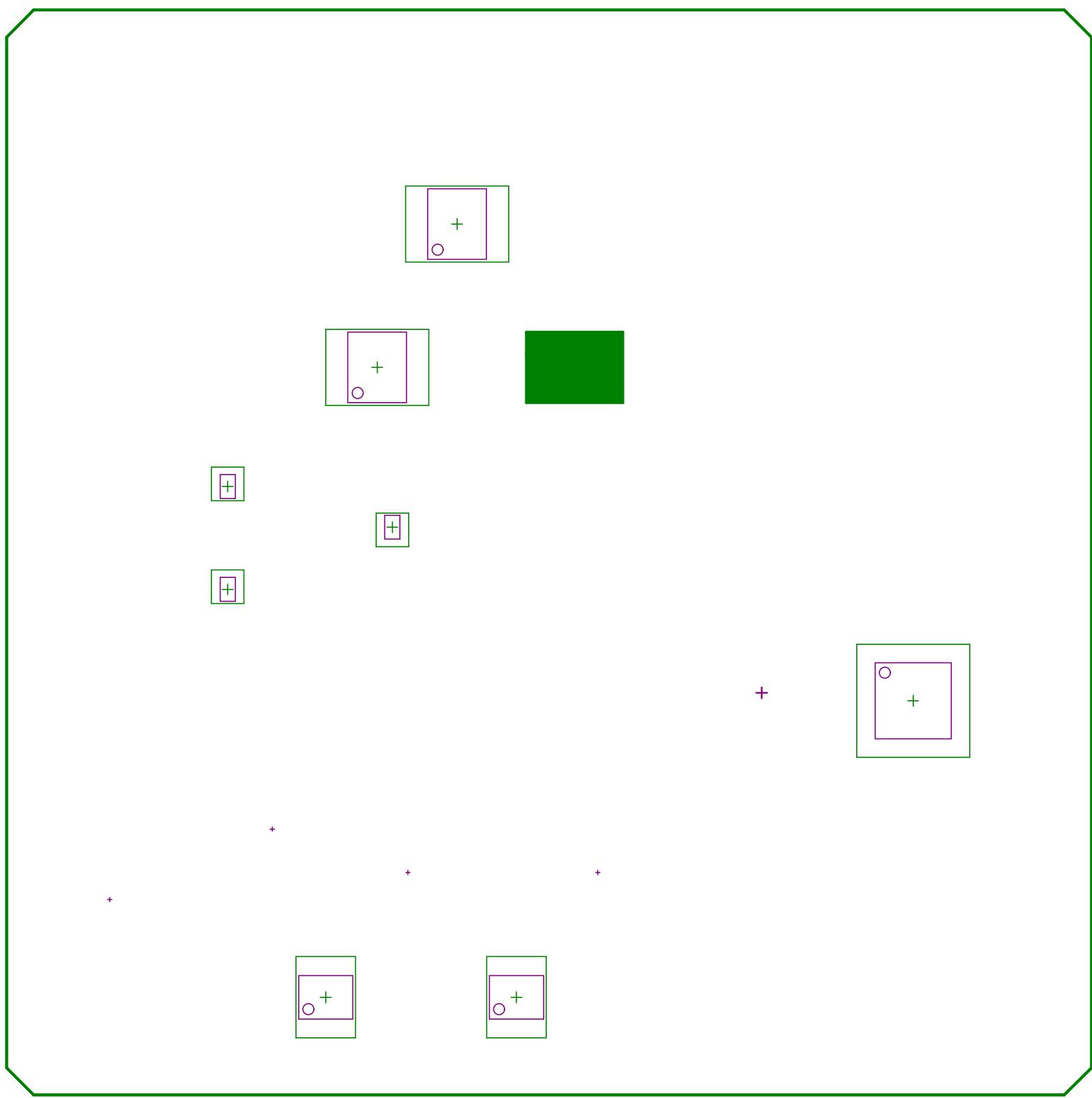


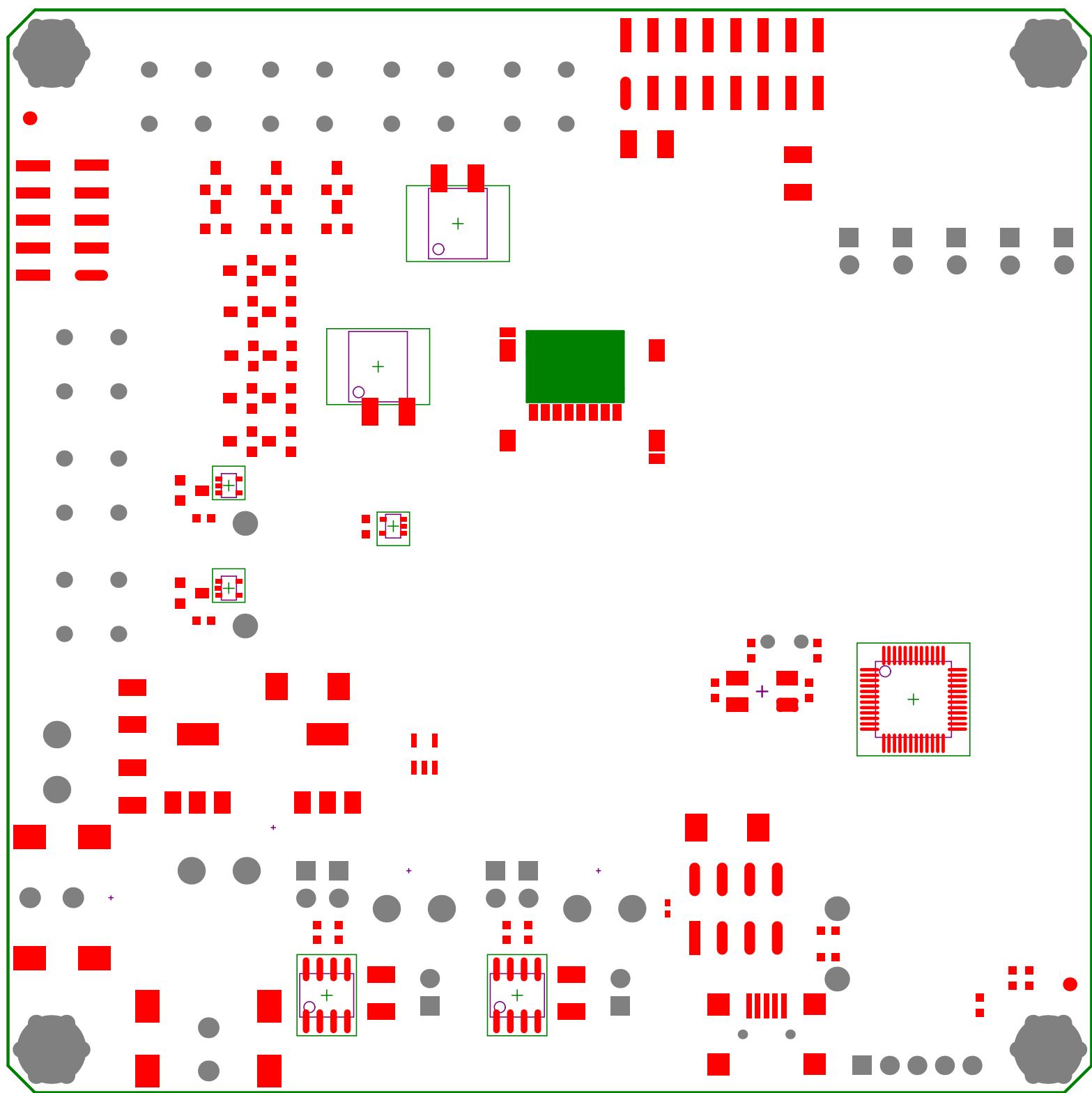


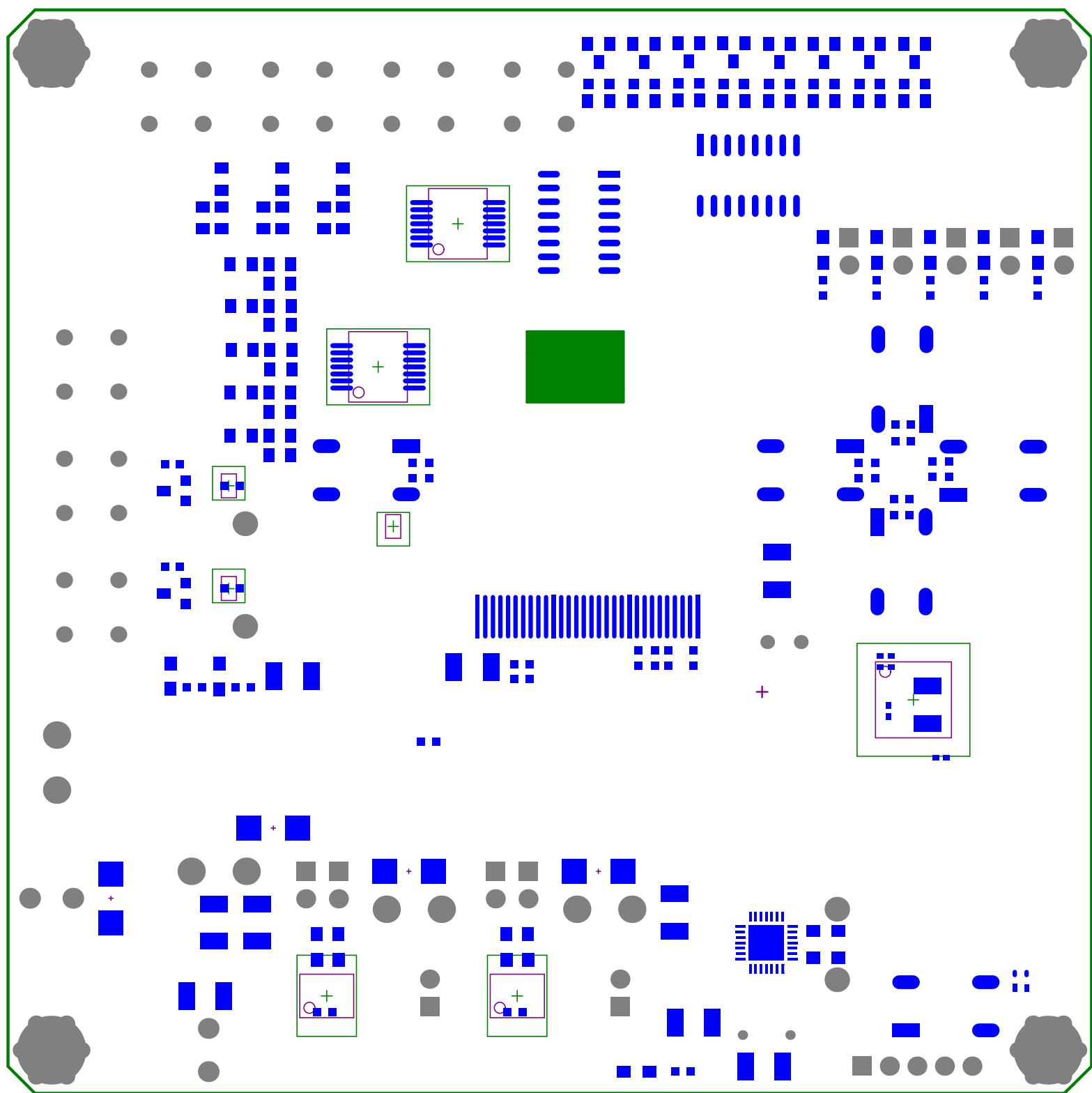


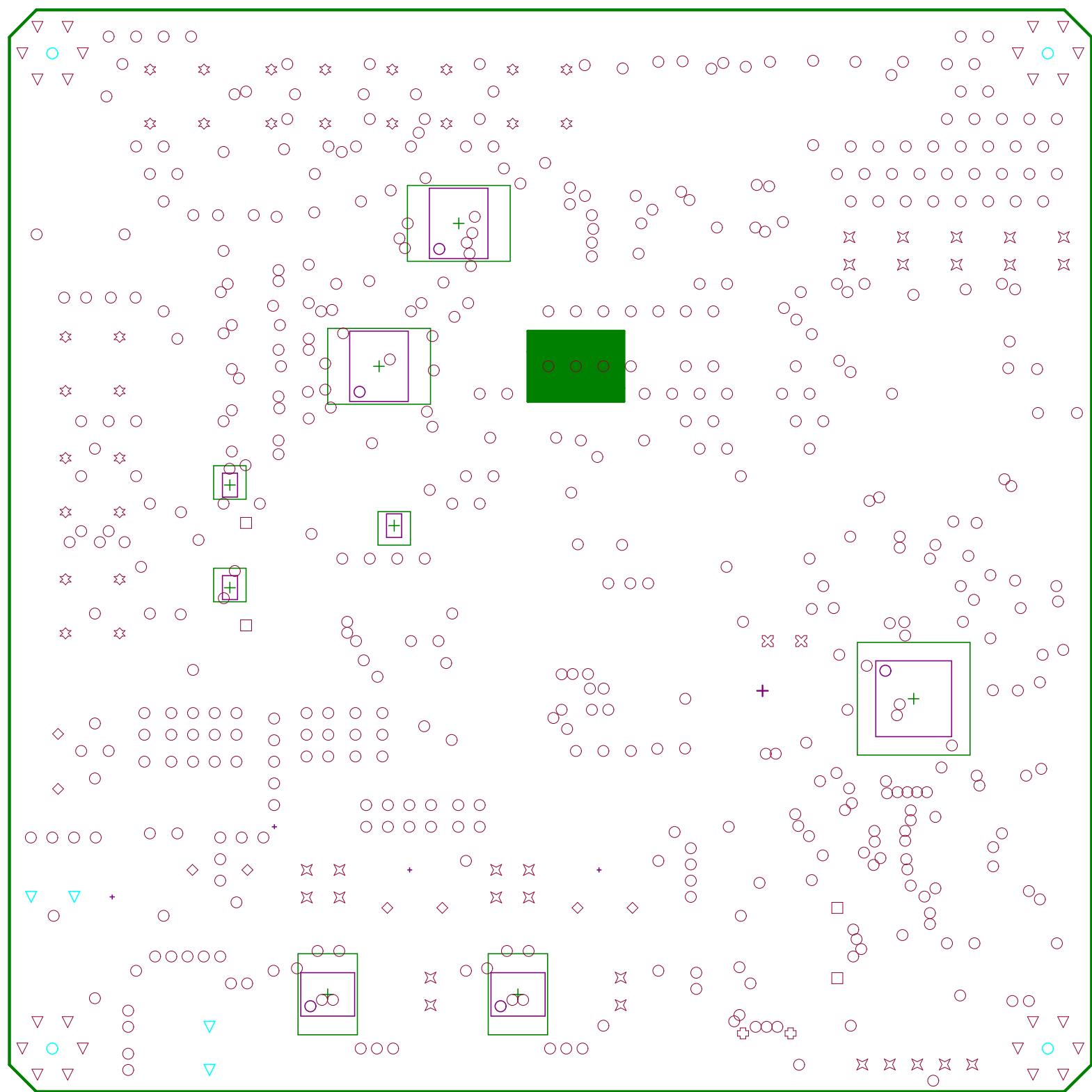


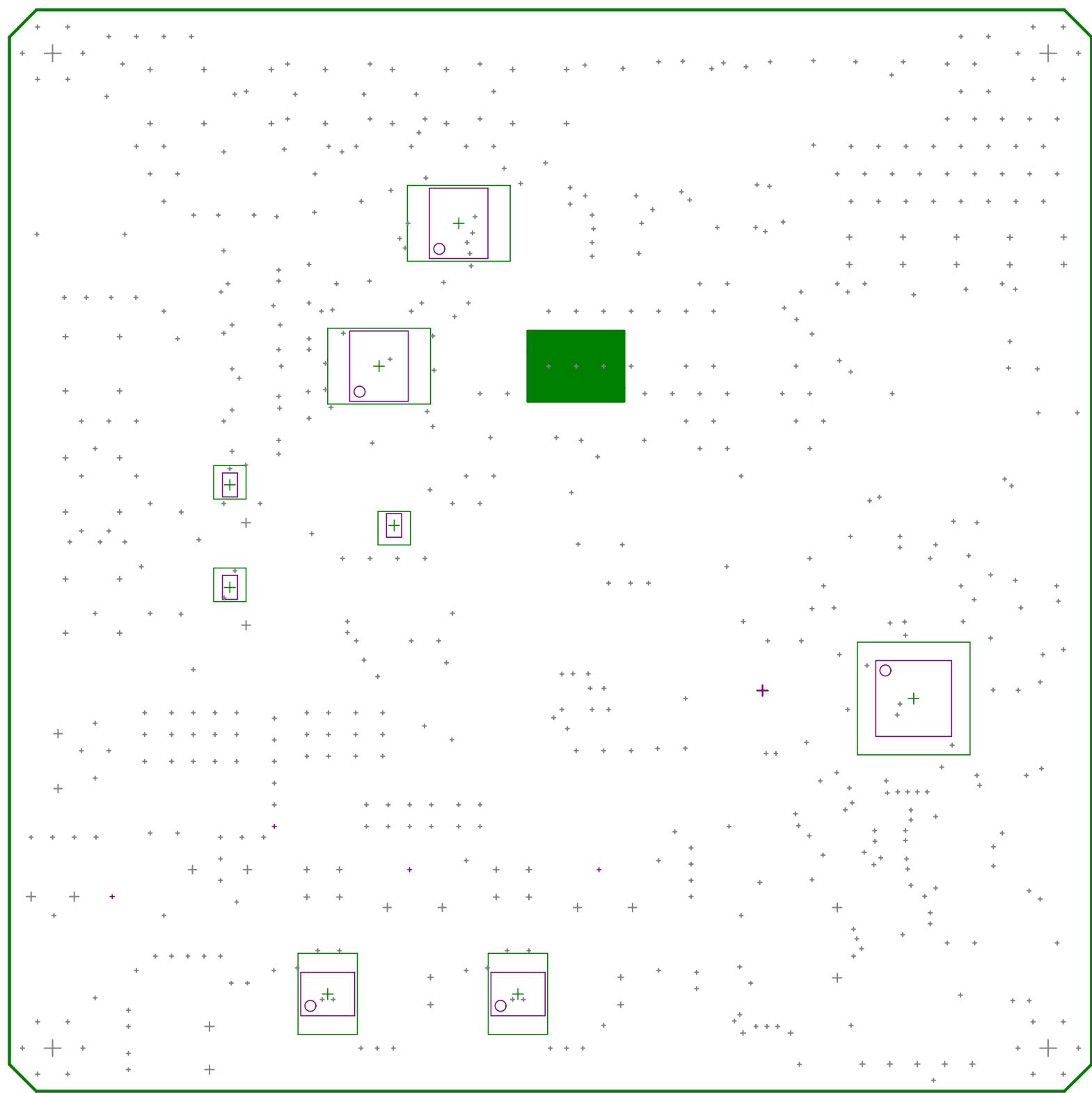












Comment	Description	Designator	Footprint	LibRef	Quantity
6n8	CAPACITOR 0603 CERAMIC	C1, C2	0603C-GENERIC	0603C-6N850V-XTR-MUR	2
22pF	CAPACITOR 0603 CERAMIC	C3, C4	0603C-GENERIC	0603C-22PF-50V-COG-PAN	2
TBD	CAPACITOR 1210 CERAMIC VALUE TO BE DETERMINED	C5A, C5B, C7, C9, C15, C16, C17, C18, C19, C22, C23, C24A, C24B, C26, C27, C38, C40A, C40B	1210C-GENERIC	Passives_Capacitors_12 10_1210C-TBD	18
0402	CAPACITOR 0402 CERAMIC	C6, C34, C35, C36, C37	0402C-TBD	0402C-TBD	5
2412 33u25V TANT		C8, C21	2412C-TANTAL-33u25V	2412C-TANTAL SIZE C-33u25V	2
1uF	CAPACITOR 0603 CERAMIC	C10, C11, C12, C13	0603C-GENERIC	0603C-1UF-35V-X5R-TAV	4
2n2	CAPACITOR 0603 CERAMIC	C14	0603C-GENERIC	0603C-2N2-50V-COG-MUR	1
10uF	CAPACITOR 0603 CERAMIC	C20	0603C-GENERIC	0603C-10UF-10V-X5R-TDK	1
4n7	CAPACITOR 0603 CERAMIC	C25A, C25B, C28, C29, C30, C31, C32, C39	0603C-TBD	0603C-4N7	8
0603-100nF	CAPACITOR 0603 CERAMIC VALUE TO BE DETERMINED	C33	0603C-TBD	0603C-TBD	1
0603D RD GN Bicolor LED	Bicolor 0603 LED	D1	0606LED BICOLOR LED	0603D RD GN Bicolor LED	1
0805		D2A, D2B, D2C, D2D, D2E, D2F, D2G, D2H, D2I, D7, D8, D9, D10A, D10B	0805LED	0805_LED	14
Diode	Default Diode	D3, D4, D5, D6	SMB	Diode	4
HEADER-1X2		K1A, K1B, K1C, K1D, K1E, K1F, K1G, K1H, K1I, K1O, K1B	HEADER-1X2	HEADER-1X2	11
Communication_ISM_n RF24L01+	nRF24L01+	K2	nRF24L01+_SMD	Communication_ISM_n RF24L01+	1
SSD1306 128x64_OLED	SSD1306 OLED 128x64	K3	SSD1306_128x64_OLED	SSD1306_128x64_OLED	1
ADC_028	5.5mm SMD	K4, K7	ADC-028	ADC_028	2
Connector_Terminal_TH T_PRKR2 - Detachable		K5, K11A, K11B	PRKR2-DET	Connector_Terminal.TH T_PRKR2 - Detachable	3
Screwterminal		K6	PRKR2-DET	Connector_Terminal.TH T_PRKR2 - Detachable	1
SCHD3A0100		K8	SCHD3A0100	SCHD3A0100	1
Connector_Terminal_TH T_KF235-5.0-6p		K9, K14	KF235-5.0-6p	Connector_Terminal.TH T_KF235-5.0-6p	2
USB_F_MINI	MINI USB B FEMALE	K12	USB_F_MINI	USB_F_MINI	1
SWD-1X5	SWD PINHEADER 1X5	K13	HEADER-1X5	SWD-1X5	1
Header_M_SMD_5x2	SMD Header 5x2	K15	Header_Male_2_54_5x2	Header_M_SMD_5x2	1
Connector_Terminal_TH T_KF235-5.0-2p		K16	KF235-5.0-2p	Connector_Terminal.TH T_KF235-5.0-2p	1
Header_M_SMD_8x2	SMD Header 8x2	K17	Header_Male_2_54_8x2	Header_M_SMD_8x2	1
N CHANNEL MOSFET BSS138	BSS138 SOT23	Q1A, Q1B, Q2A, Q2B, Q2F, QF1B, QF1C, QF1D, QF1E, QF1F, QF1G, QF1H	SOT23-GDS	BSS138-SOT23	12
BC847B	BC847 SMALL SIGNAL NPN TRANSISTOR	Q1H, Q2H	SOT23-BCE	BC847	16
1K	GENERIC RESISTOR 0603	R1, R2, R6A, R6B, R7A, R7B	0603R-1k	0603R-1K	6
0603R-1K5	GENERIC RESISTOR 0603	R3A, R3B, R3C, R3D, R3E, R3F, R3G, R3H, R3I, R8, R9, R10, R21A, R21B	0603R-1k5	0603R-1K5	14
330K	GENERIC RESISTOR 0603	R4	0603R-330K	0603R-330K	1
1K2	GENERIC RESISTOR 0603	R5A, R5B	0603R-GENERIC	0603R-1K2	2
10K	GENERIC RESISTOR 0603	R11, R12, R13, R14, R15	0603R-10K	0603R-10K	5
330R	RESISTOR 0805 1/4 WATT THIN FILM	R16A, R16B, R16C, R16D, R16E, R16F, R16G, R16H, R19A, R19B, R19C, R19D, R19E, R19F, R19G, R19H	0805R-330	0805R-330	16
220R	RESISTOR 0805 1/4 WATT THIN FILM	R17A, R17B, R17C, R17D, R17E, R17F, R17G, R17H, R18A, R18B, R18C, R18D, R18E, R18F, R18G, R18H	0805R-220	0805R-220	16
1K	RESISTOR 0805 1/4 WATT THIN FILM	R20A, R20B, R20C, R20D, R20E, R20F, R20G, R20H	0805R-1K	0805R-1K	8
SW-PB-BLACK-SMD	PUSHBUTTON SWITCH 6MM SMD	SW1, SW2, SW3, SW4, SW5, SW6	SW-PB-SMD	SW-PB-BLACK-SMD	6
TESTPOINT	TESTPOINT SCOPE GRABBER	TP1A, TP1B, TP2, TP3	TESTPOINT	TESTPOINT	4
74595	8-BIT 5FT REG WIRTH OUTPUT LATCH	U1A, U1B	SO16	74595	2
TP4056		U2A, U2B	SO8_N	TP4056	2
74LVC1G17	Single buffer	U3A, U3B, U6	SOT-353	74LVC1G17	3
CP2102	CP2102	U4	QFN-28	CP2102	1
STM32F051CBT6		U5	LQFP48_N	STM32F051CBT6	1
74132	QUAD 2-IN POS NAND SCH	U7A, U7B	SO14	74132	2
AMS1117-5V-SOT223		VR1	SOT223	LD1117-SOT223	1
LD2985	Low Noise Low Drop Voltage Regulator with Inhibit	VR2	SOT23-5	LD2985	1
LD1117-SOT223		VR3	SOT223	LD1117-SOT223	1
XTAL	Crystal Oscillator	Y1	R38	XTAL 6035	1
6035		Y2	XTAL 6035 Quartz	6035 Quartz	1