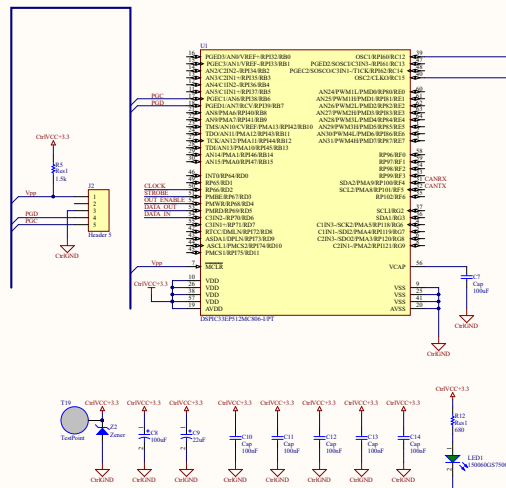
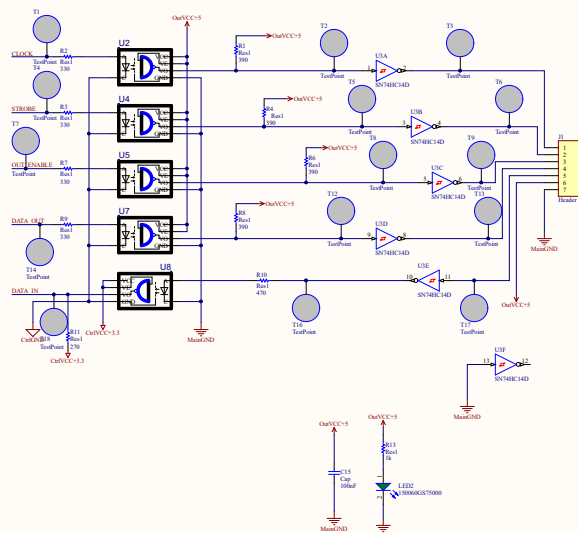


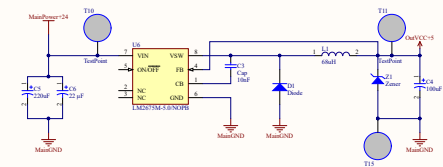
## Controller Area



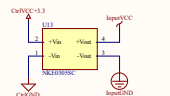
## Output Area



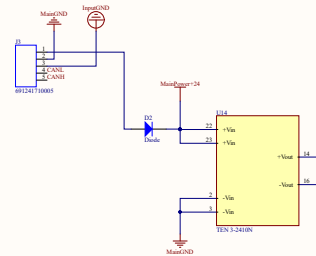
## DC 24 To 5 Converter To Output



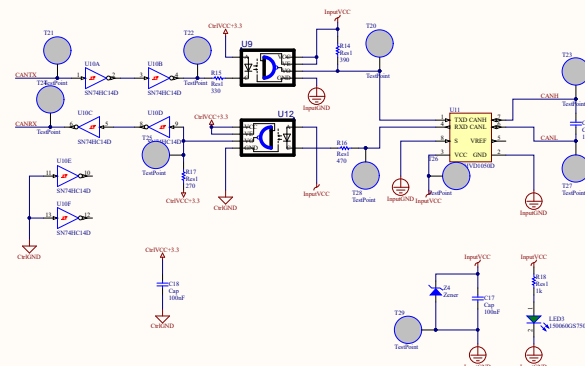
## DC 5 TO 5 Converter With Isolation

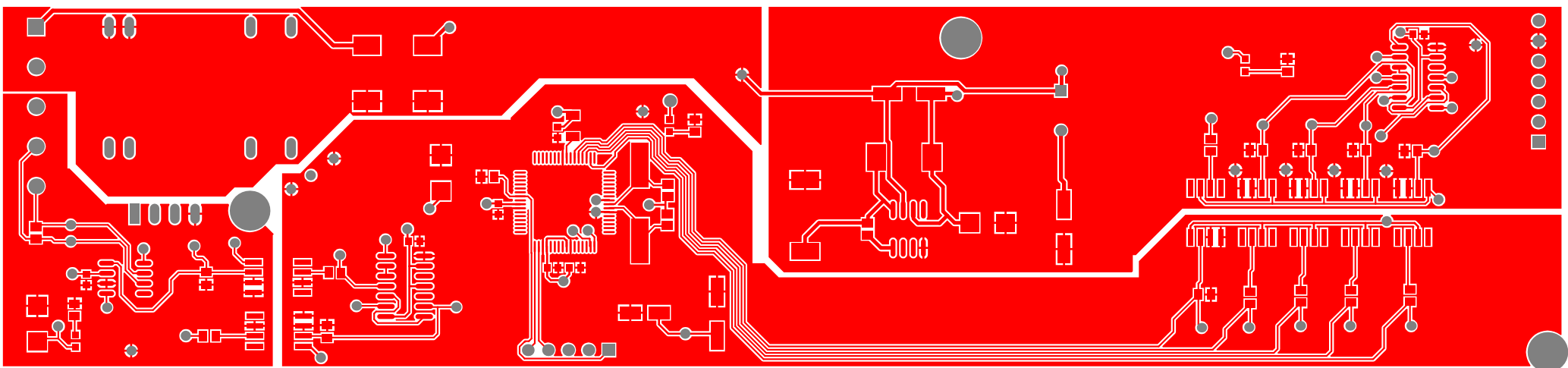


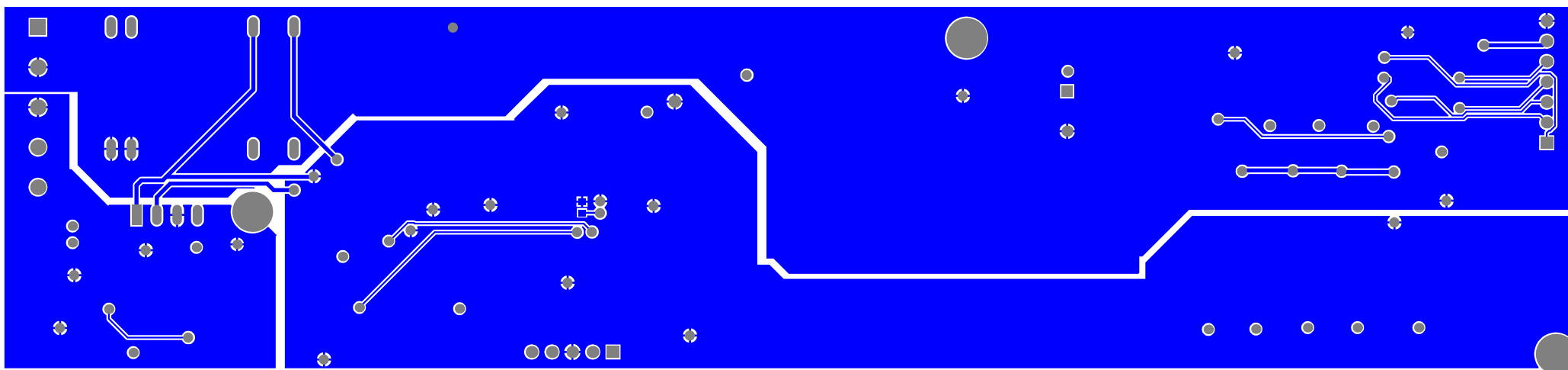
## DC 24 To 5 Isolated Main Controller Supply Area

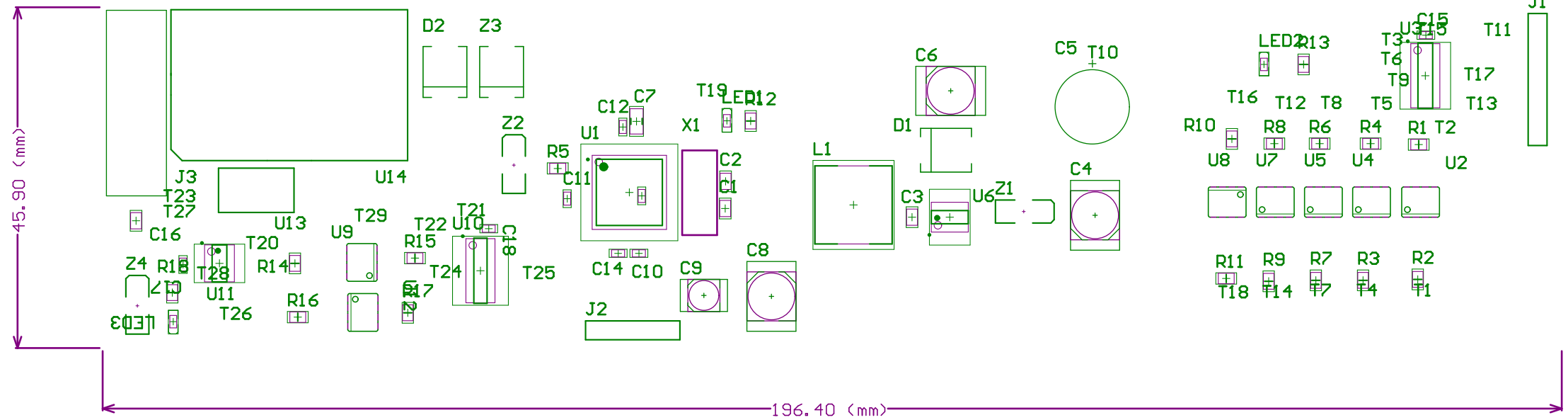


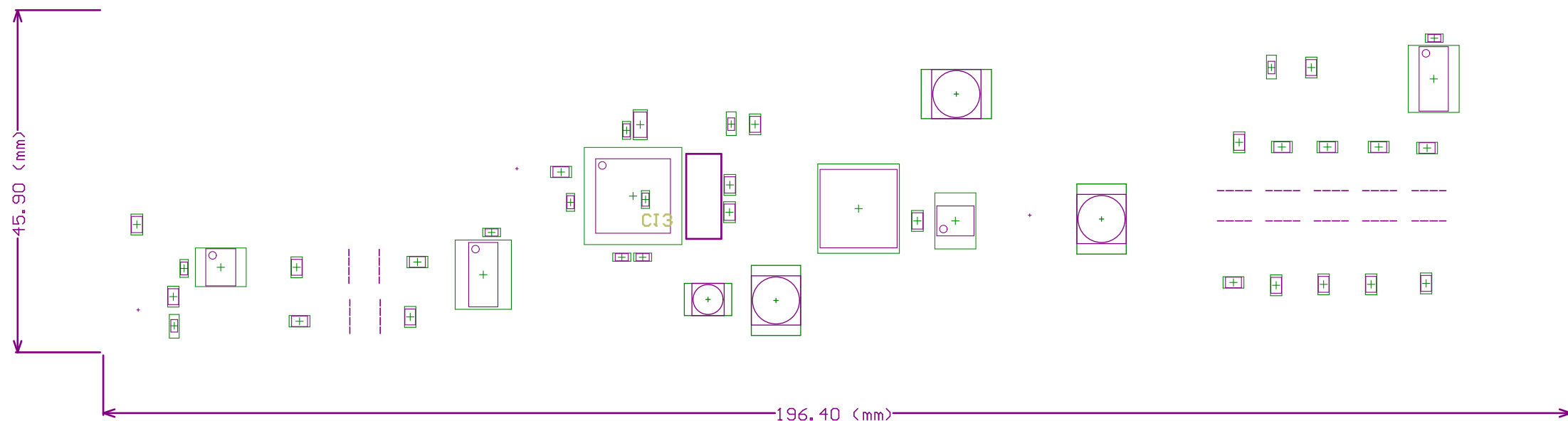
## Input CAN Bus Interface

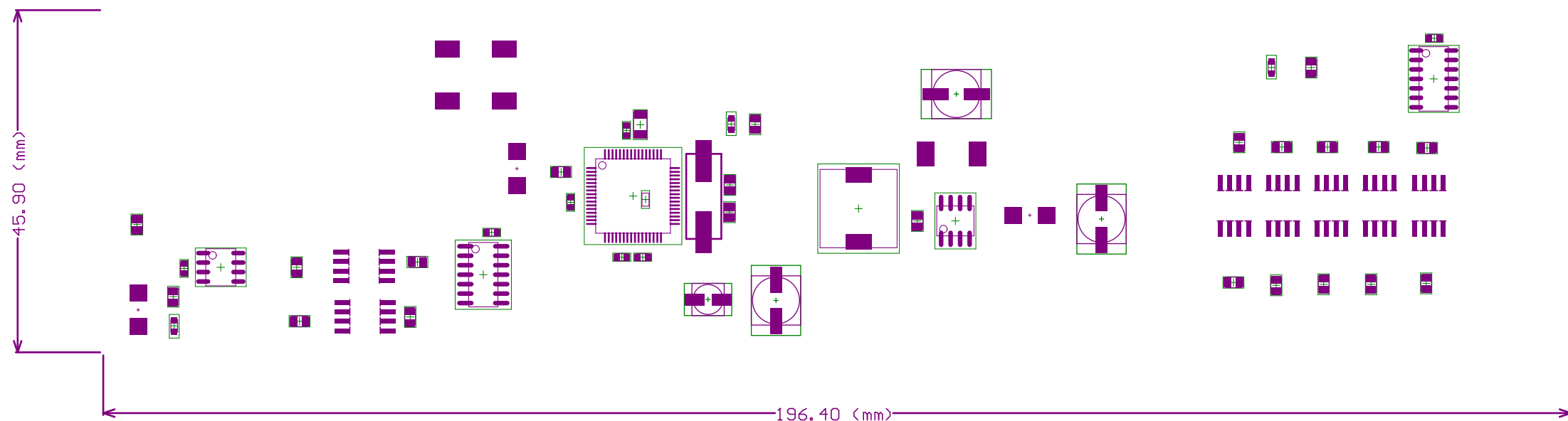


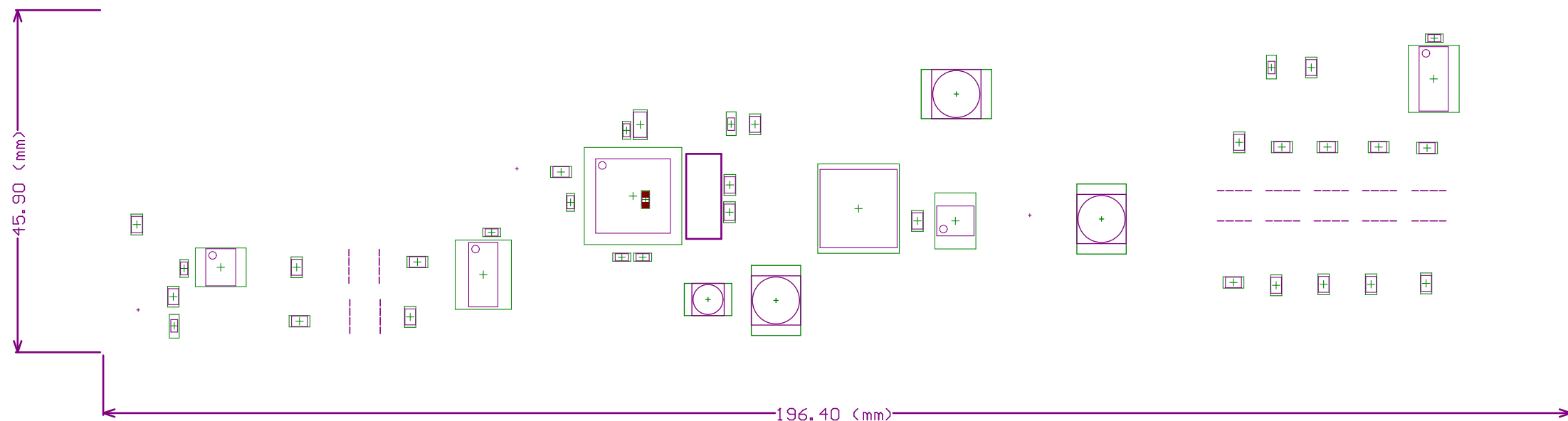


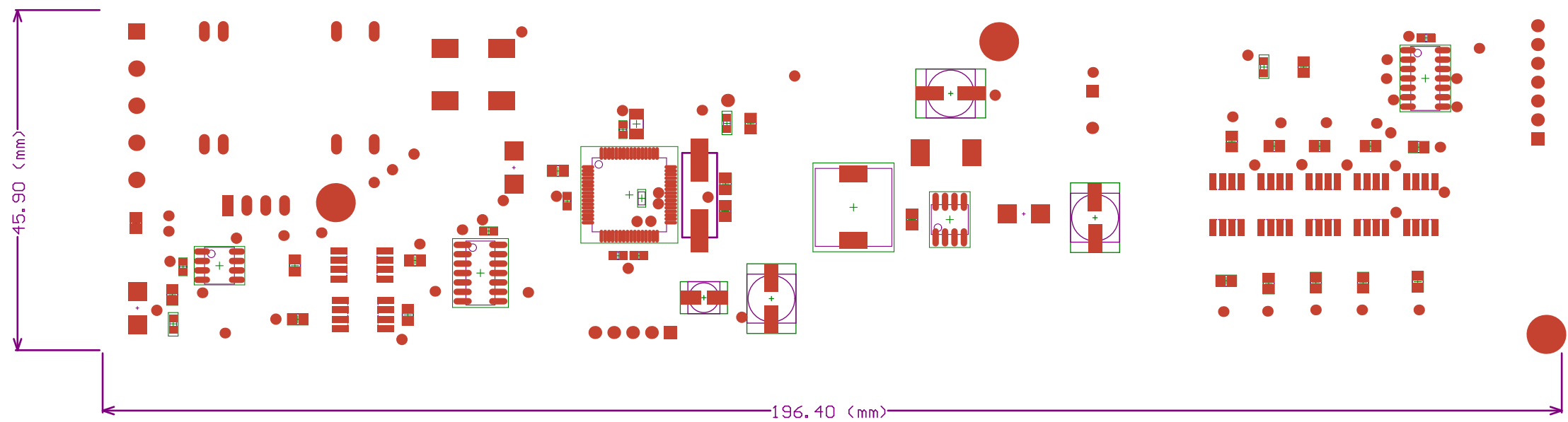




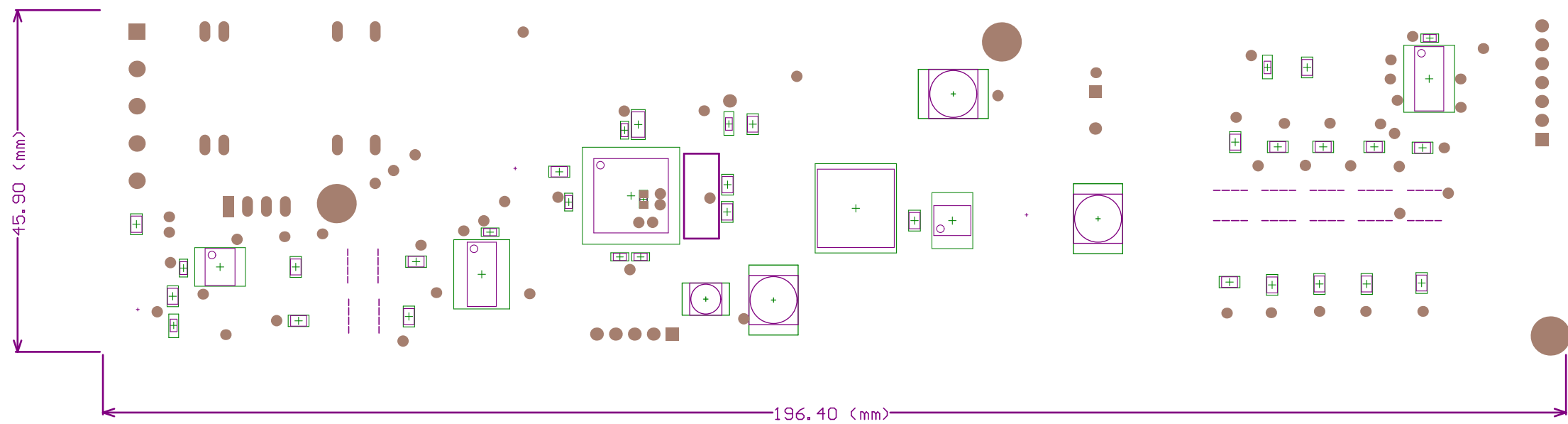


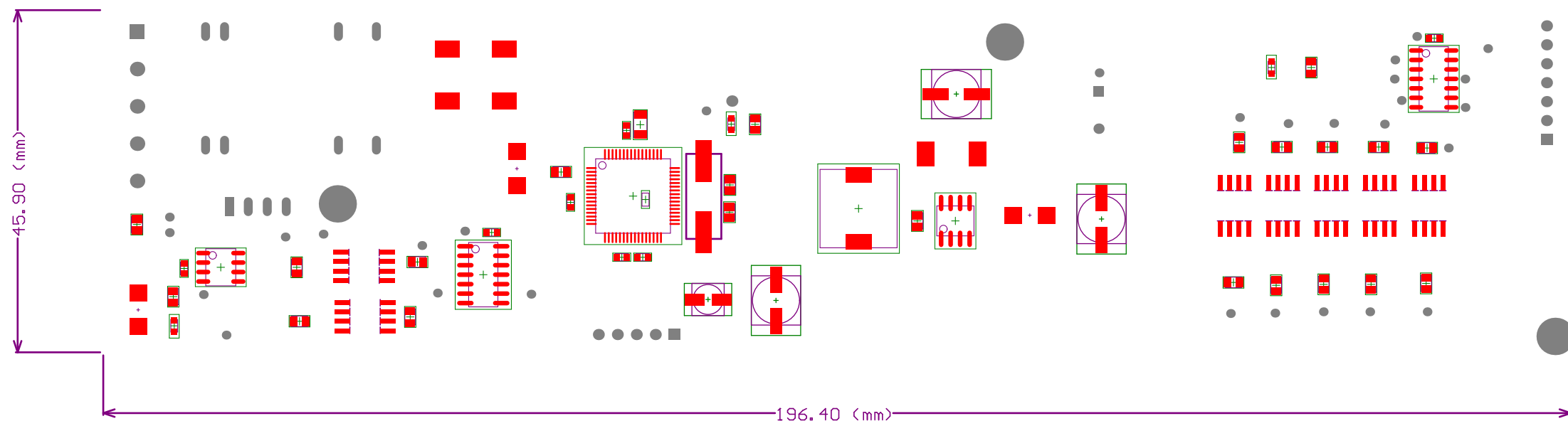


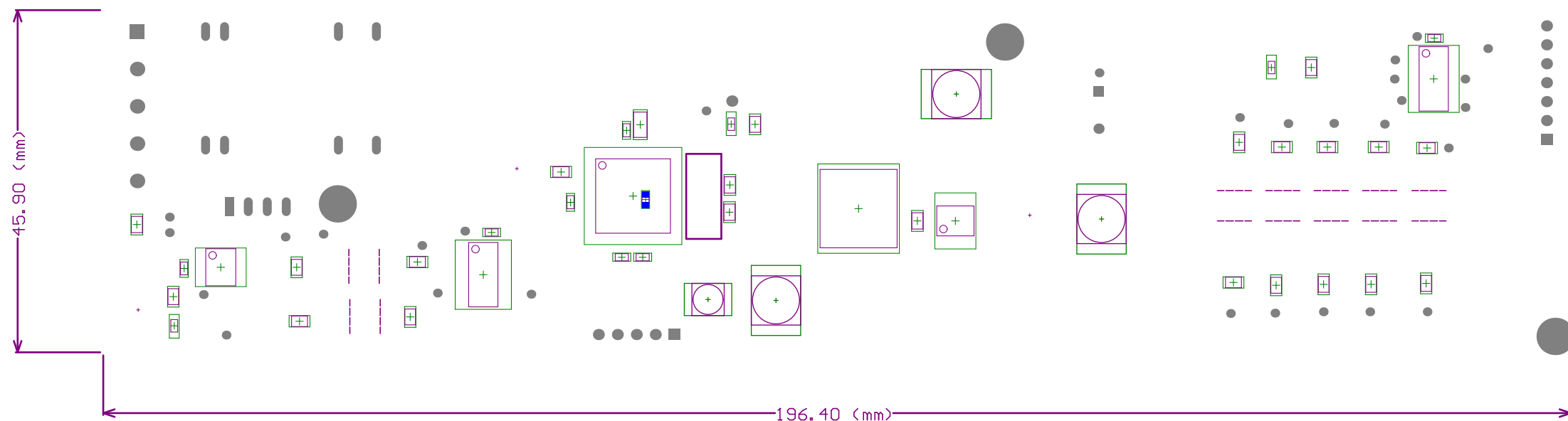


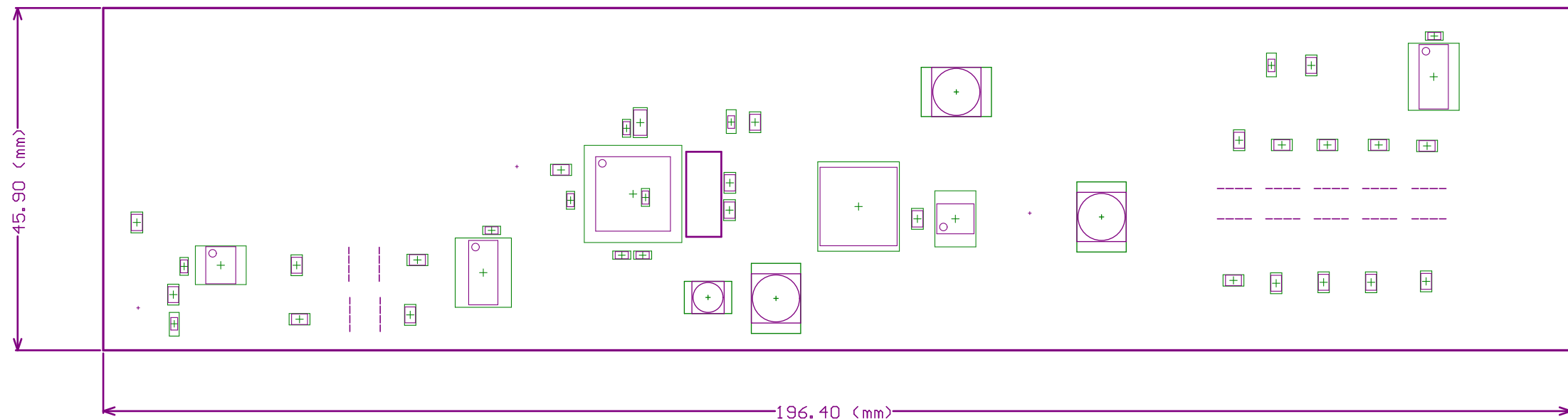


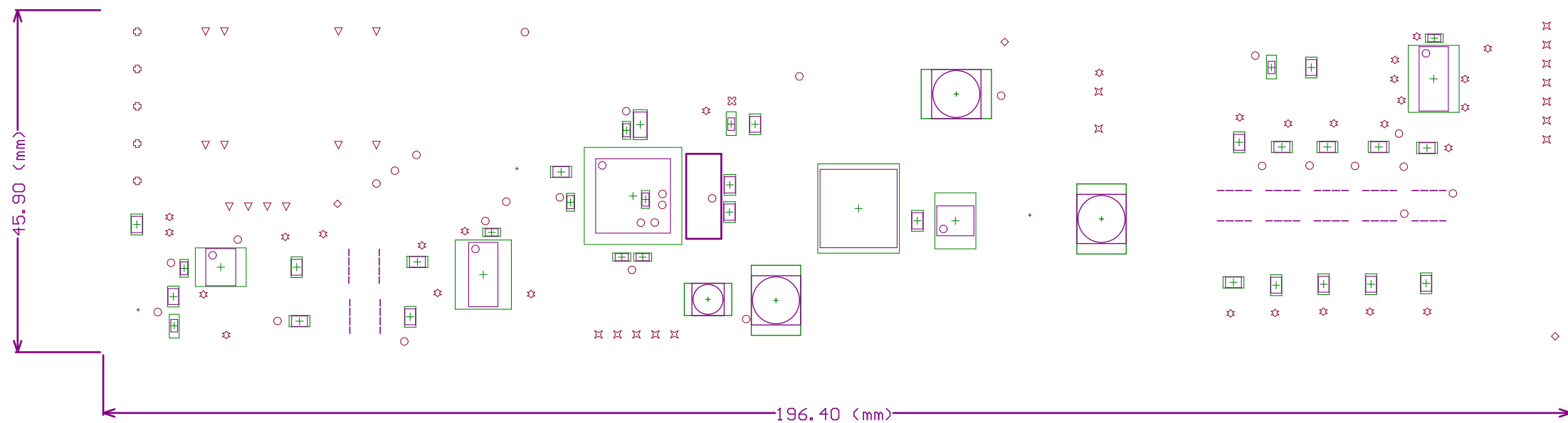


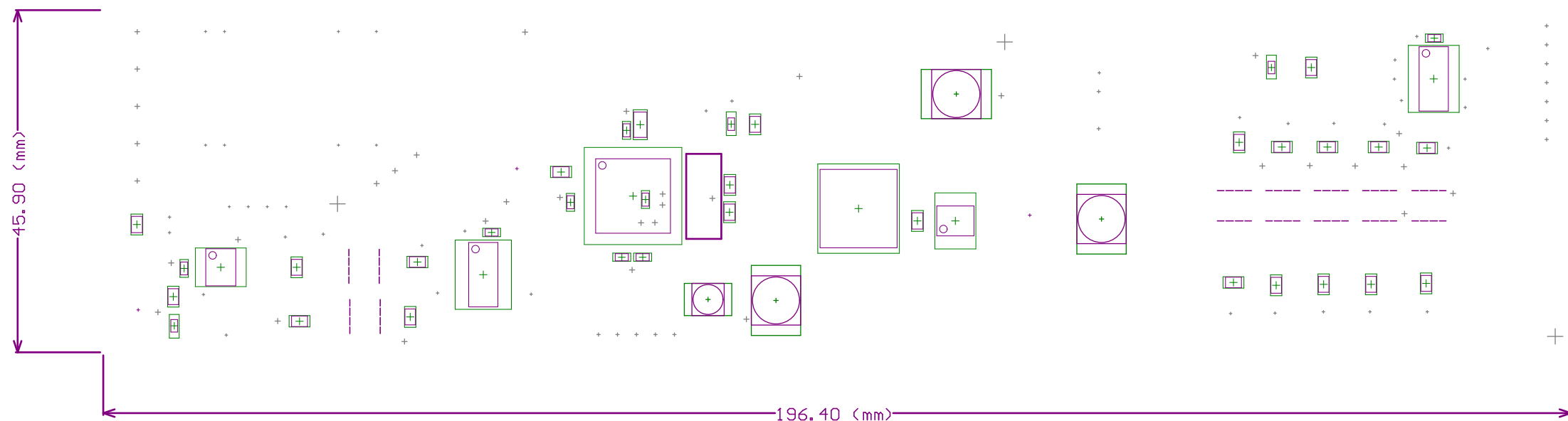












Comment	Description	Designator	Footprint	LibRef	Quantity
Cap	Capacitor	C1, C2, C3, C16	C0805	Cap	4
100uF	WCAP-PSLP Aluminum Polymer Capacitors , 22 µF; + / - 20%; 16 V , 6,3 x 5,8, WCAP-PSLP Aluminum Polymer Capacitors , 22 µF; + / - 20%; 16V , 6,3 x 5,8	C4, C8	WCAP-PSLP 6.3x5.8x2.2	WCAP-PSLP 6.3x5.8x2.2 875105544003	2
220uF	WCAP-PTG5 Aluminum Polymer Capacitors , 1000 µF; + / - 20%; 6,3 V , 10 x 12,5	C5	WCAP-PTG5 10x12.5x5x0.6	WCAP-PTG5 10x12.5x5x0.6 870025175010	1
22 µF	WCAP-PSLP Aluminum Polymer Capacitors , 22 µF; + / - 20%; 50 V , 6,3 x 5,8	C6	WCAP-PSLP 6.3x5.8x2.2	WCAP-PSLP 6.3x5.8x2.2 875105544003	1
Cap	Capacitor	C7	C1206	Cap	1
22uF	WCAP-PSLP Aluminum Polymer Capacitors , 10 µF; + / - 20%; 10 V , 4 x 5,5	C9	WCAP-PSLP 4x5.5x1	WCAP-PSLP 4x5.5x1 875105240001	1
Cap	Capacitor	C10, C11, C12, C13, C14, C15, C17, C18	1608[0603]	Cap	8
Diode	Default Diode	D1, D2	DO-214AB_Unidirectional	Diode	2
Header 7	Header, 7-Pin	J1	HDR1X7	Header 7	1
Header 5	Header, 5-Pin	J2	HDR1X5	Header 5	1
691241710005	WR-TBL Horizontal Cable Entry With Rising Cage Clamp,Serie 2417 - 5.00 mm	J3	691241710005	691241710005	1
68uH	SMD-Shielded Power Inductor WE-PD, L=1.50 µH	L1	WE-PD 1030	WE-PD 1030, 7447713015	1
150060GS75000	SMD mono-color Chip LED, WL-SMCW, Green	LED1, LED2, LED3	LED_0603_Green	WL-SMCW 0603 150060GS75000	3
Res1	Resistor	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18	6-0805_L	Res1	18
TestPoint	Test Point	T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T11, T12, T13, T14, T15, T16, T17, T18, T19, T20, T21, T22, T23, T24, T25, T26, T27, T28, T29	Test Point	Test Point	29
DSPIC33EP512MC806-I/PT	16-Bit Microcontroller and Digital Signal Controller with High-Speed PWM, USB and Advanced Analog, 70 MIPS, 53 I/O, EPMP, -40 to 85 degC, 64-pin TQFP (PT64), Tray	U1	MCHP-TQFP-PT64_N	DSPIC33EP512MC806-I/PT	1
HCPL0601		U2, U4, U5, U7, U8, U9, U12	SOIC08	HCPL0601	7
SN74HC14D	Hex Schmitt-Trigger Inverter	U3	D014_L	SN74HC14D	1
LM2675M-5.0/NOPB	SIMPLE SWITCHER® Power Converter High Efficiency 1A Step-Down Voltage Regulator, 8-pin Narrow SOIC, Pb-Free	U6	M08A_N	LM2675M-5.0/NOPB	1
SN74HC14D	Hex Schmitt-Trigger Inverter	U10	D014_N	SN74HC14D	1
SN65HVD1050D	High-Speed EMC Optimized CAN Transceiver, 70 mA, 5 V, 40 to 125 degC, 8-pin SOIC (D), Green (RoHS & no Sb/Br)	U11	D8_L	SN65HVD1050D	1
NKE0305SC	muRata 3.3 to 5.0 isolated converter	U13	NKE0305SC	NKE0305SC	1
TEN 3-2410N	Traco 24/3.3 isolated converter	U14	TRACO ISOLATED CONVERTER	TEN 3-2410N	1
ABLS2-8.000MHZ-D4Y-T		X1	XTAL1140X470X330	ABLS2-8.000MHZ-D4Y-T	1
Zener	WE-TVSP Power TVS Diode, Unidirectional, 1500 W, 100 VDC	Z1, Z2, Z4	SMB	WE-TVSP DO-214AB, 824540102	3
36V zener	WE-TVSP Power TVS Dio	Z3	DO-214AB_Unidirection	WE-TVSP DO-214AB, 824	1