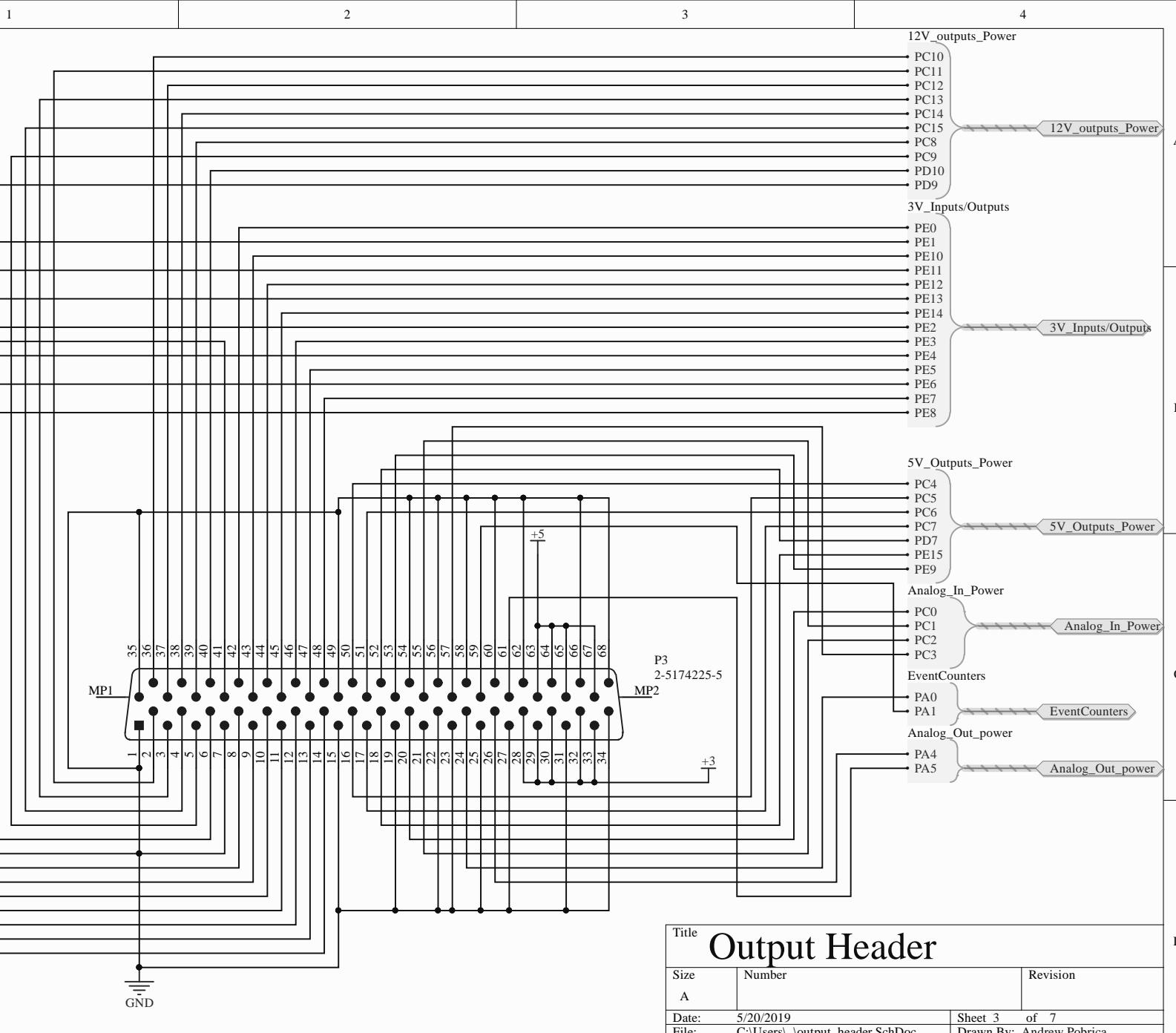
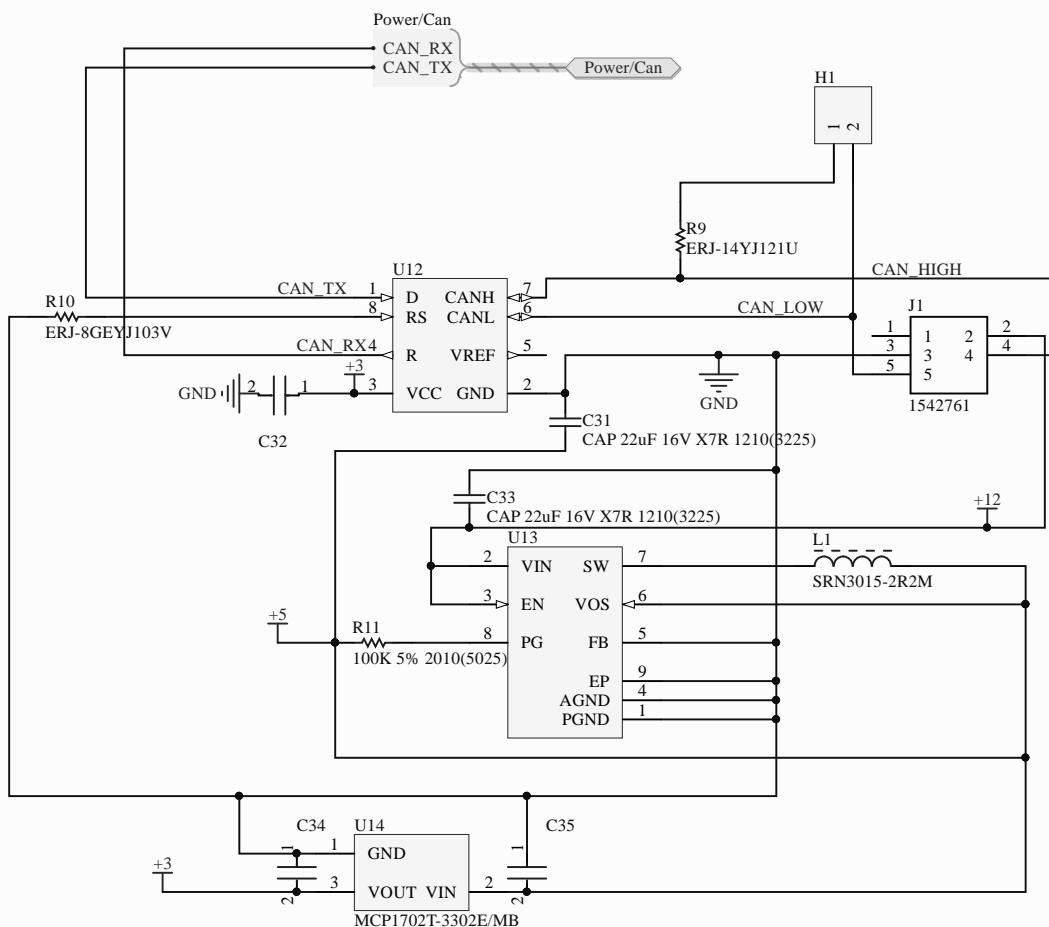


Title 12V Outputs

Size	Number	Revision
A		
Date:	5/20/2019	Sheet 2 of 7
File:	C:\Users\...\12vOutputs.SchDoc	Drawn By: Andrew Pobrica



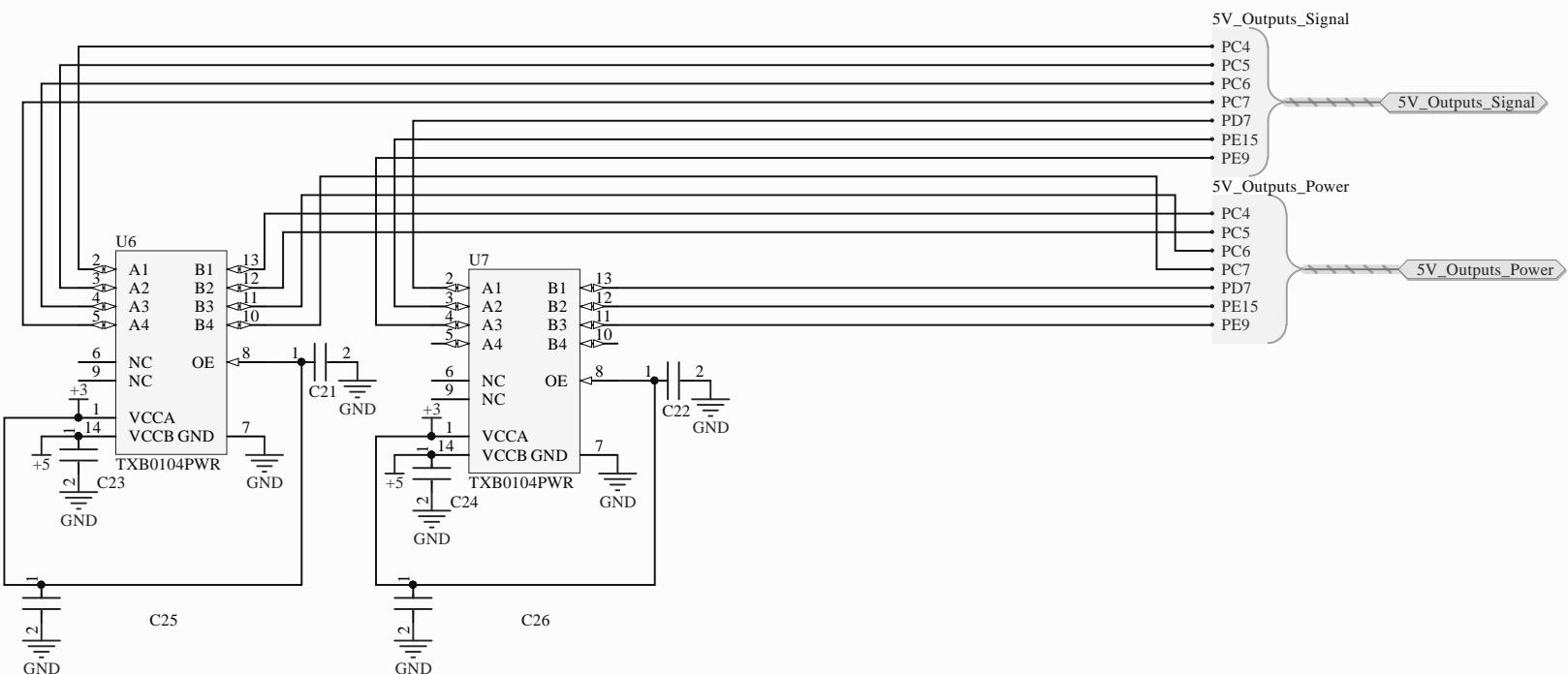
A



Title

Power and CAN

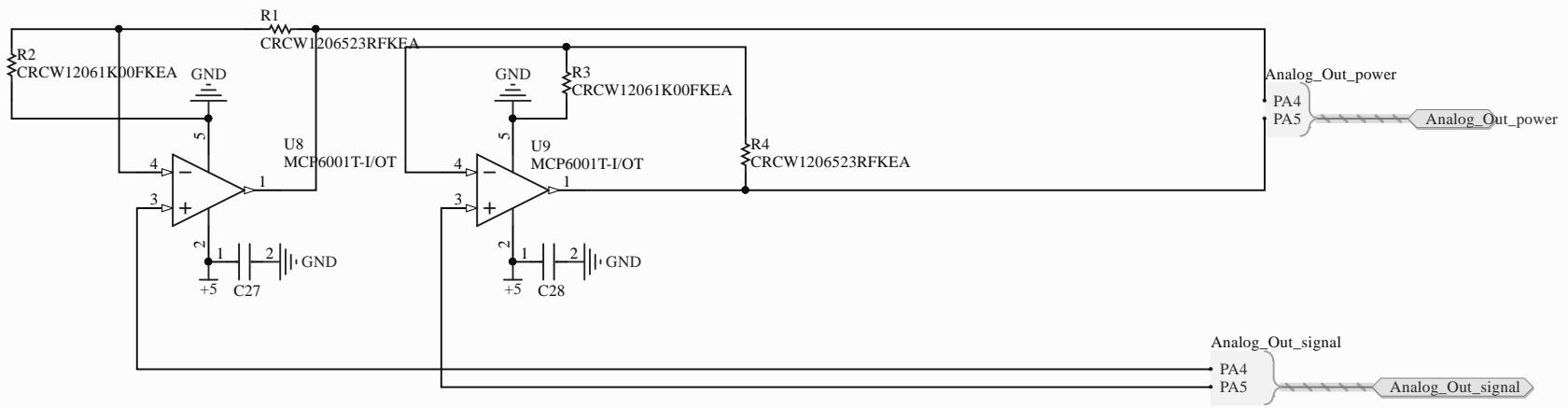
Size	Number	Revision
A		
Date:	5/20/2019	Sheet 4 of 7
File:	C:\Users\..\Power_CAN.SchDoc	Drawn By: Andrew Pobrica



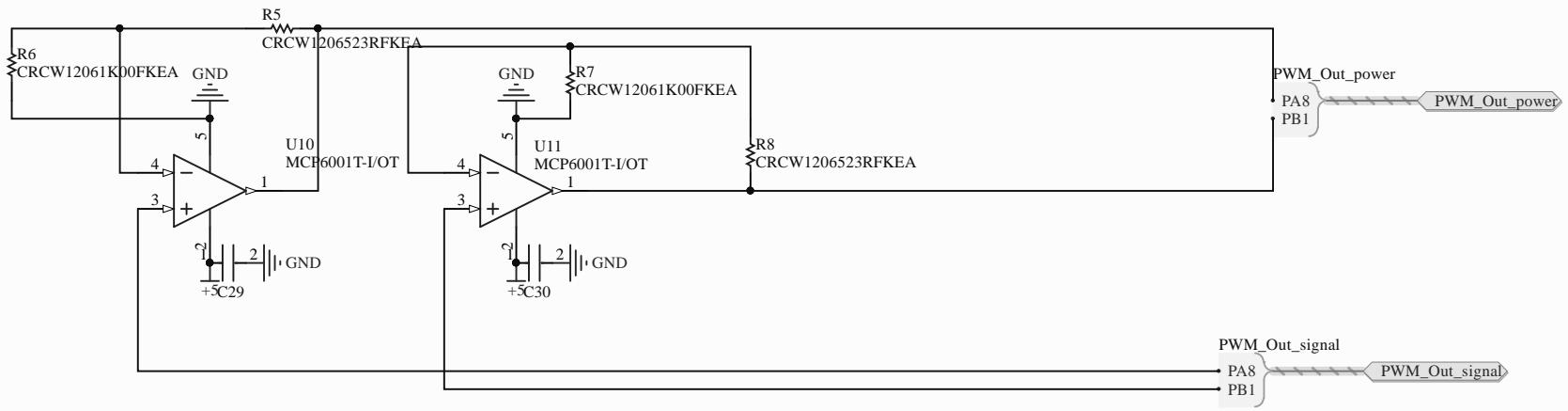
5V Outputs

Size	Number	Revision
A		
Date:	5/20/2019	Sheet 5 of 7
File:	C:\Users\..\5vOutputs.SchDoc	Drawn By: Andrew Pobrica

A



B

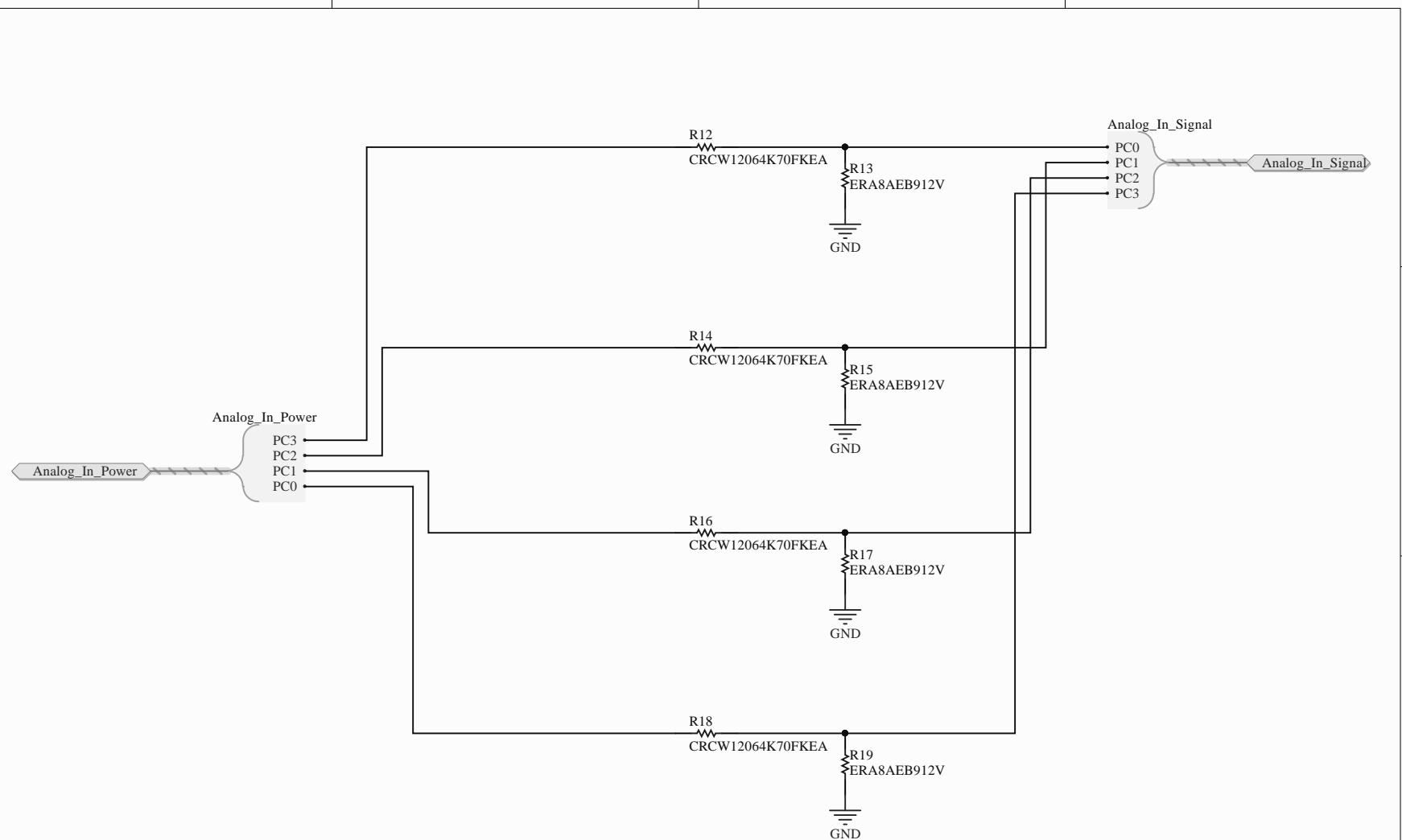


D

Title

DAC/PWM Outputs

Size	Number	Revision
A		
Date:	5/20/2019	Sheet 6 of 7
File:	C:\Users\...\DAC_PWW_Outputs.SchDoc	Drawn By: Andrew Pobrica



Title

Analog Inputs

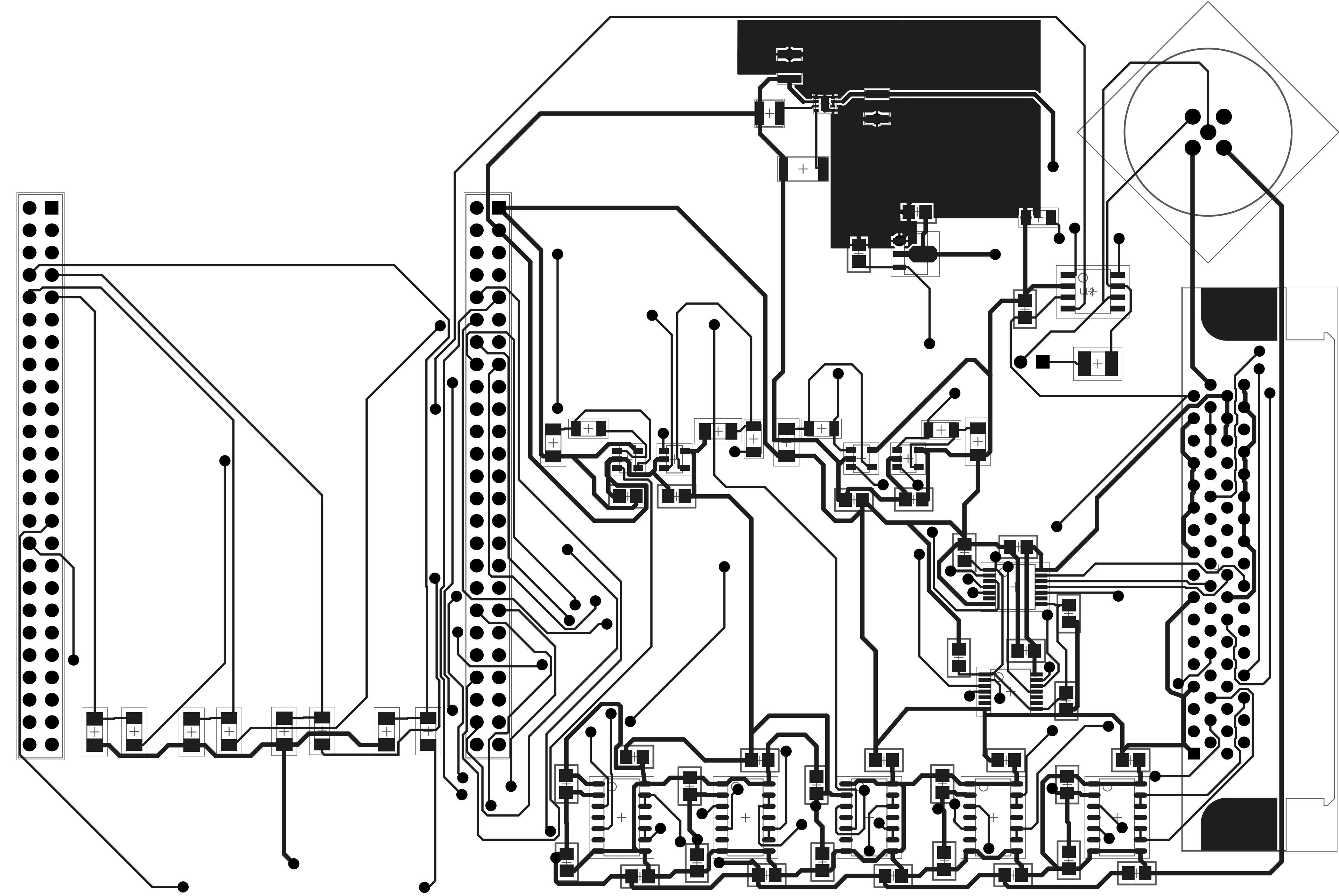
Size

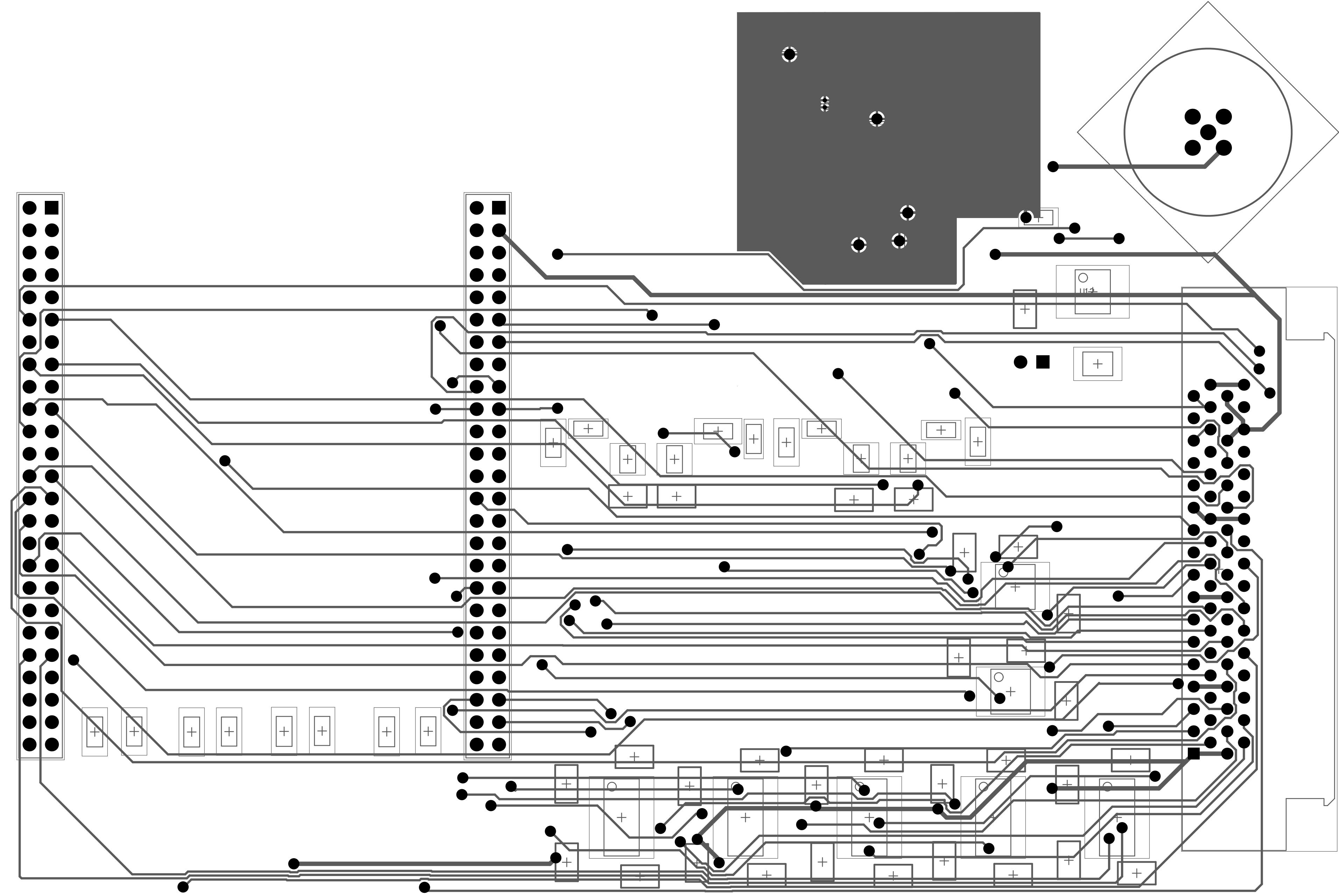
A

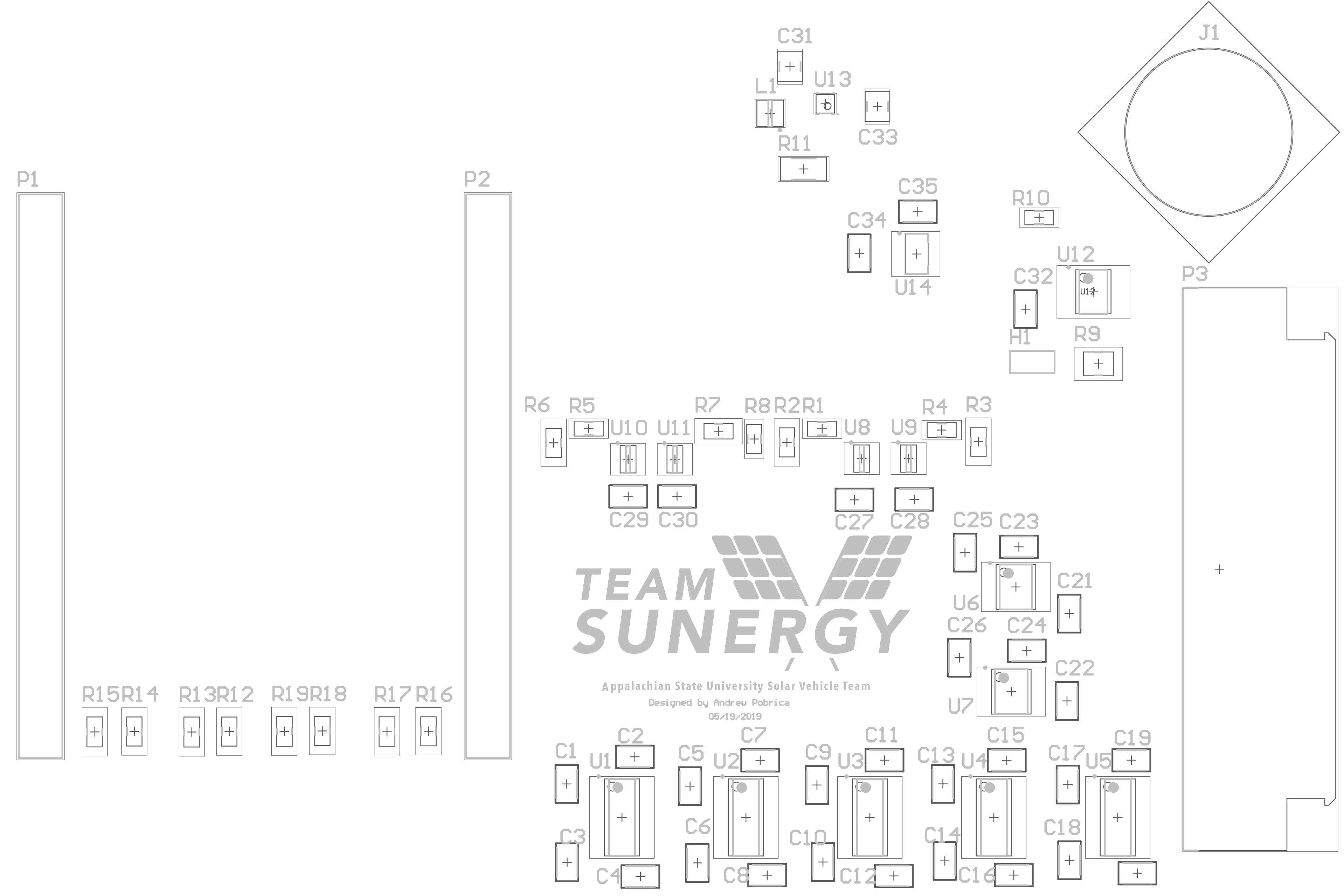
Number

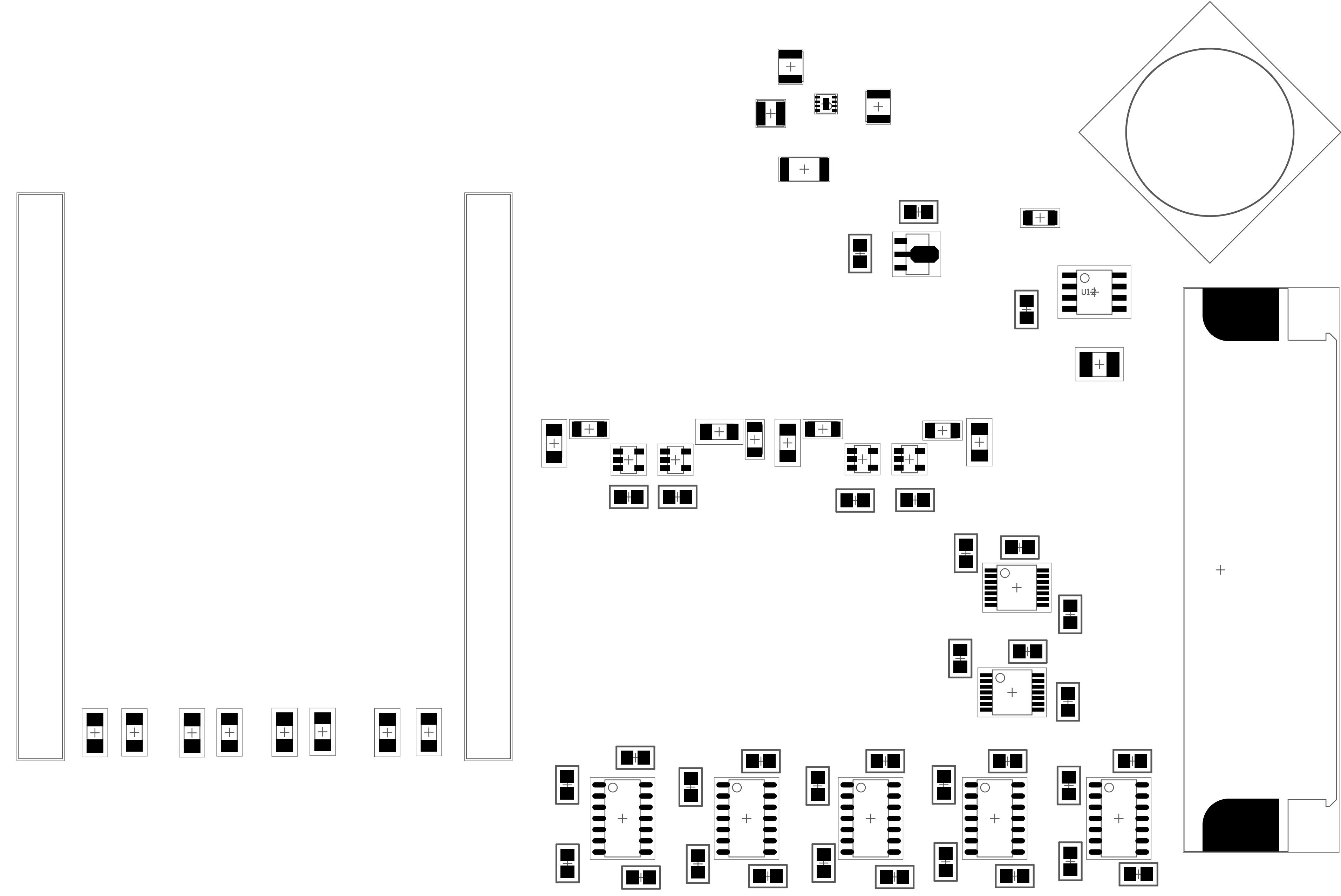
Revision

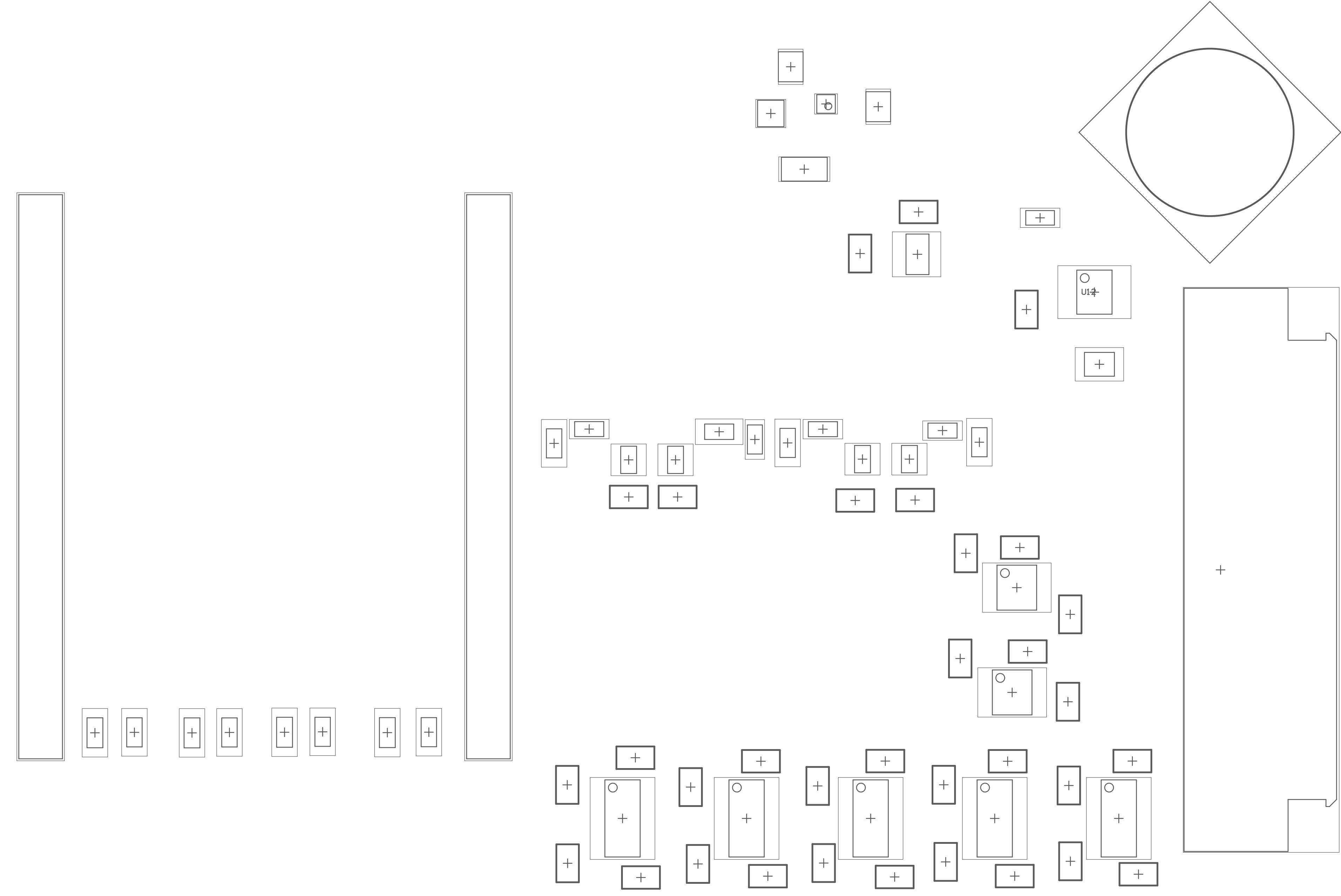
Date:	5/20/2019	Sheet 7 of 7
File:	C:\Users\..\Analog_inputs.SchDoc	Drawn By: Andrew Pobrica

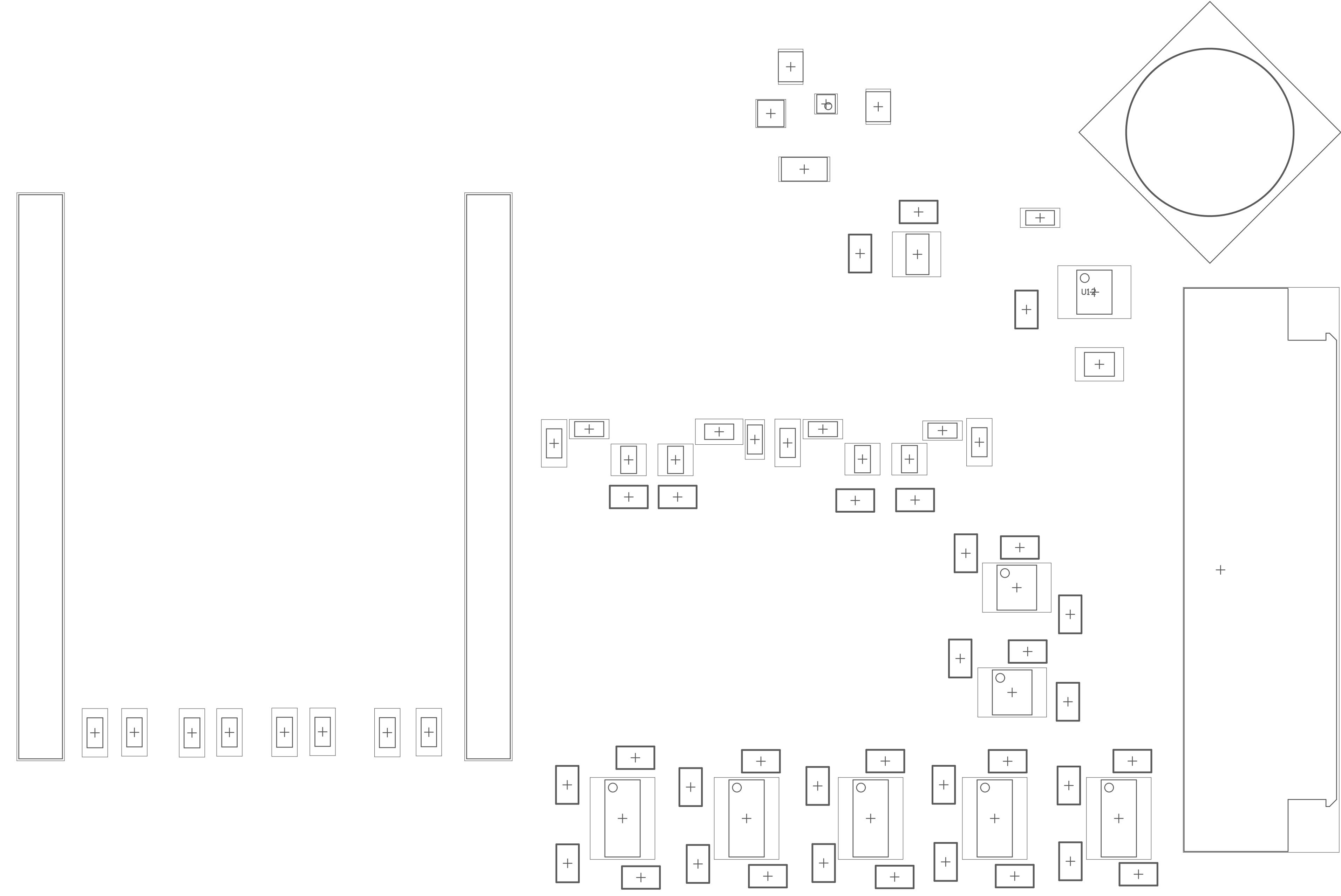


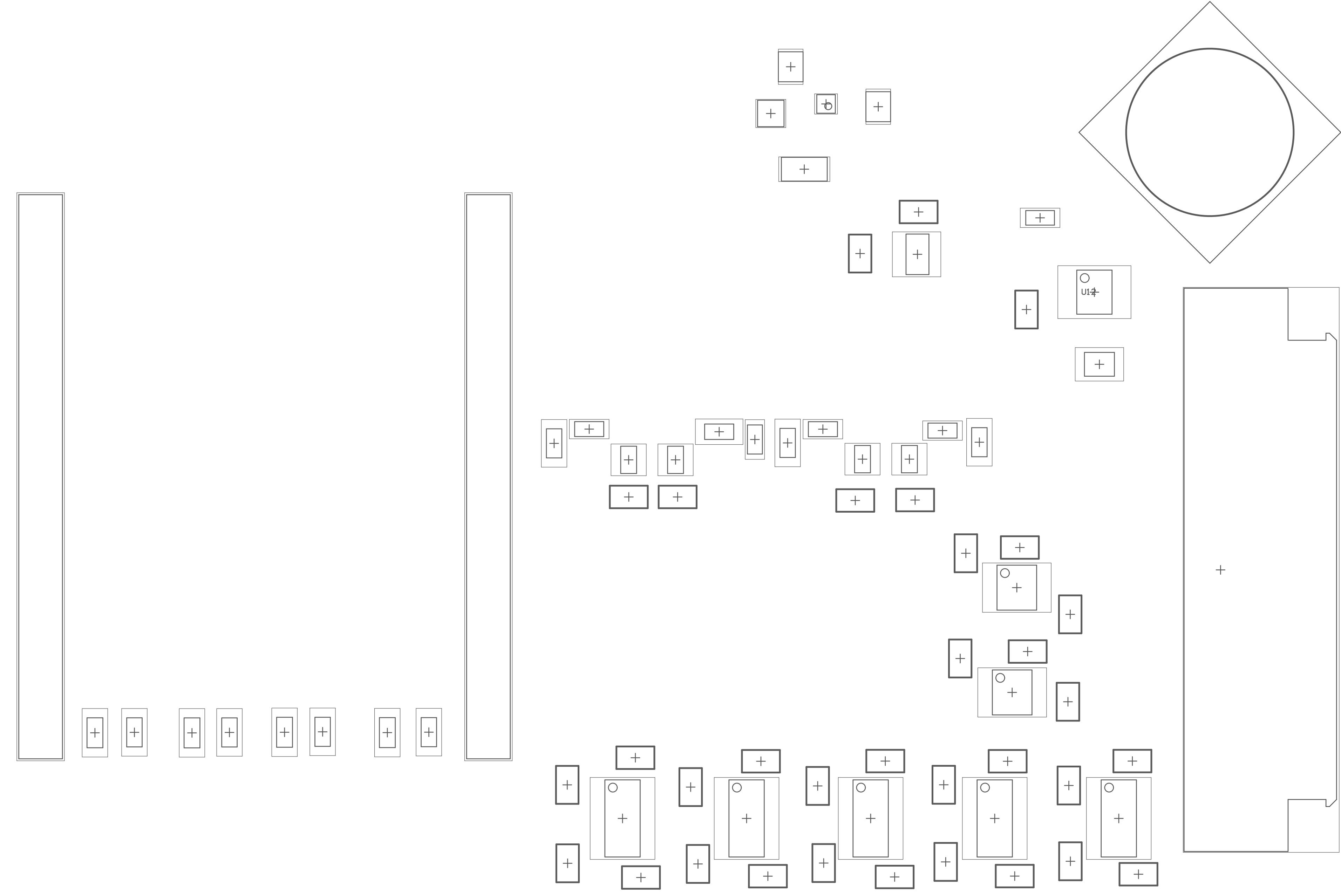


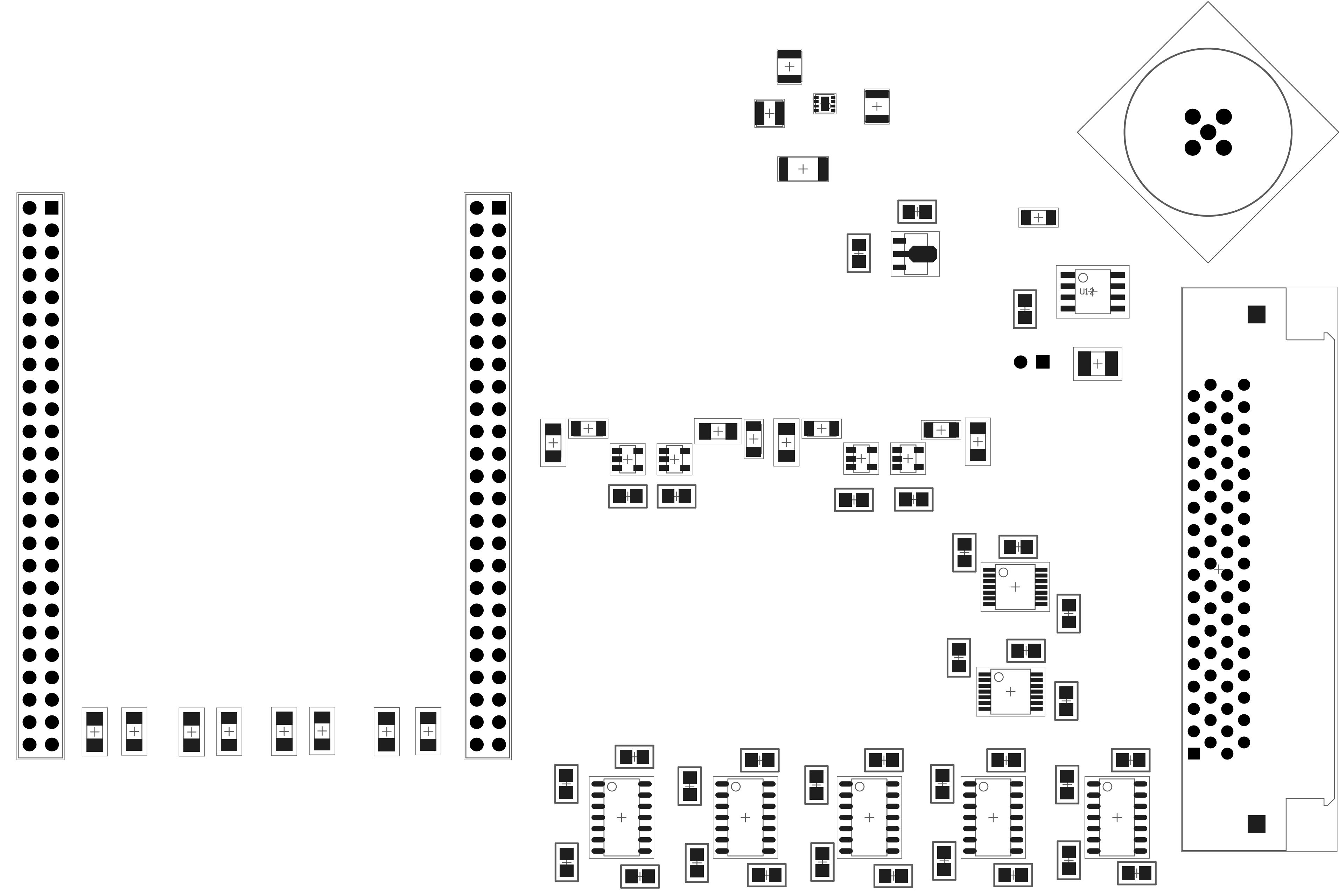


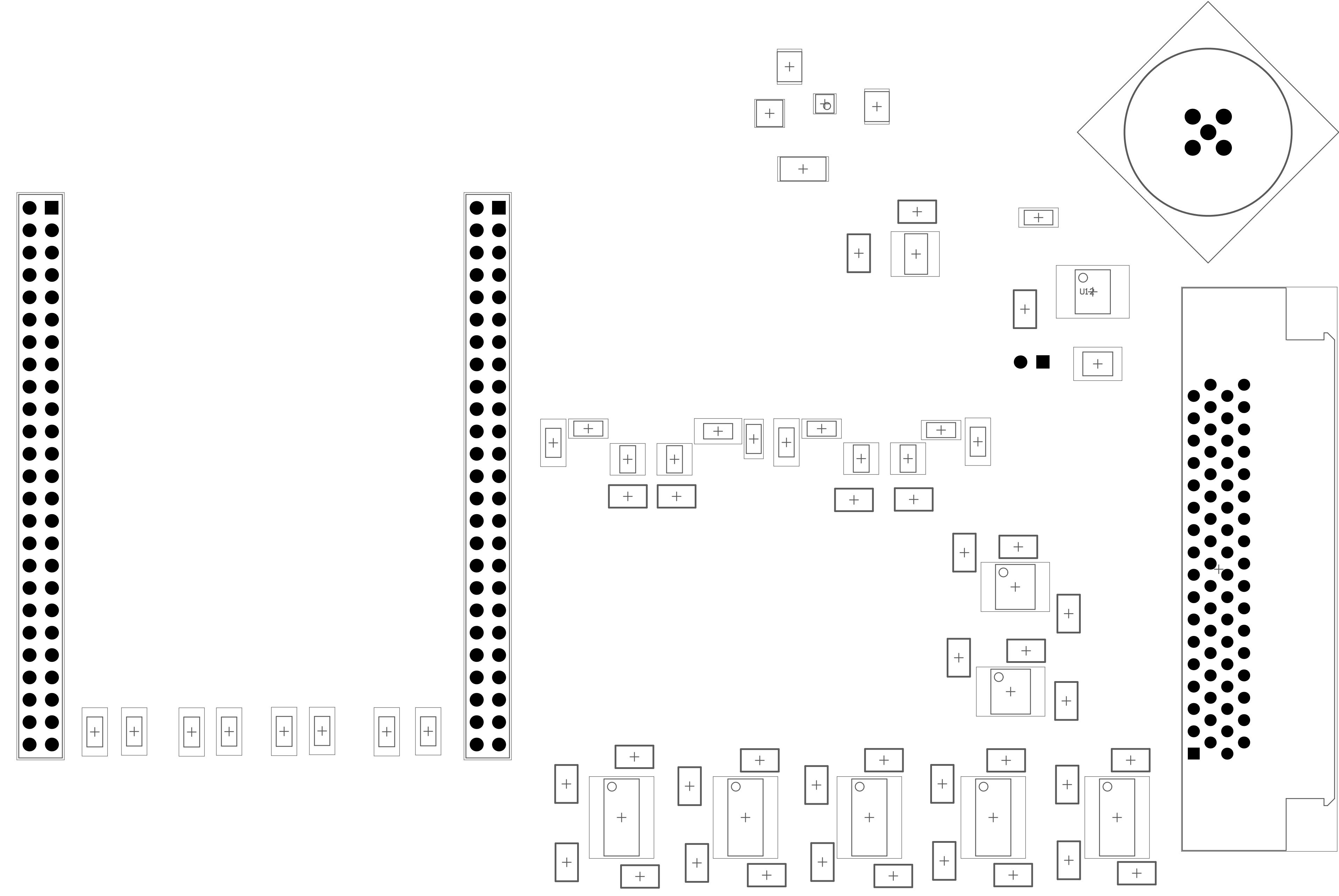




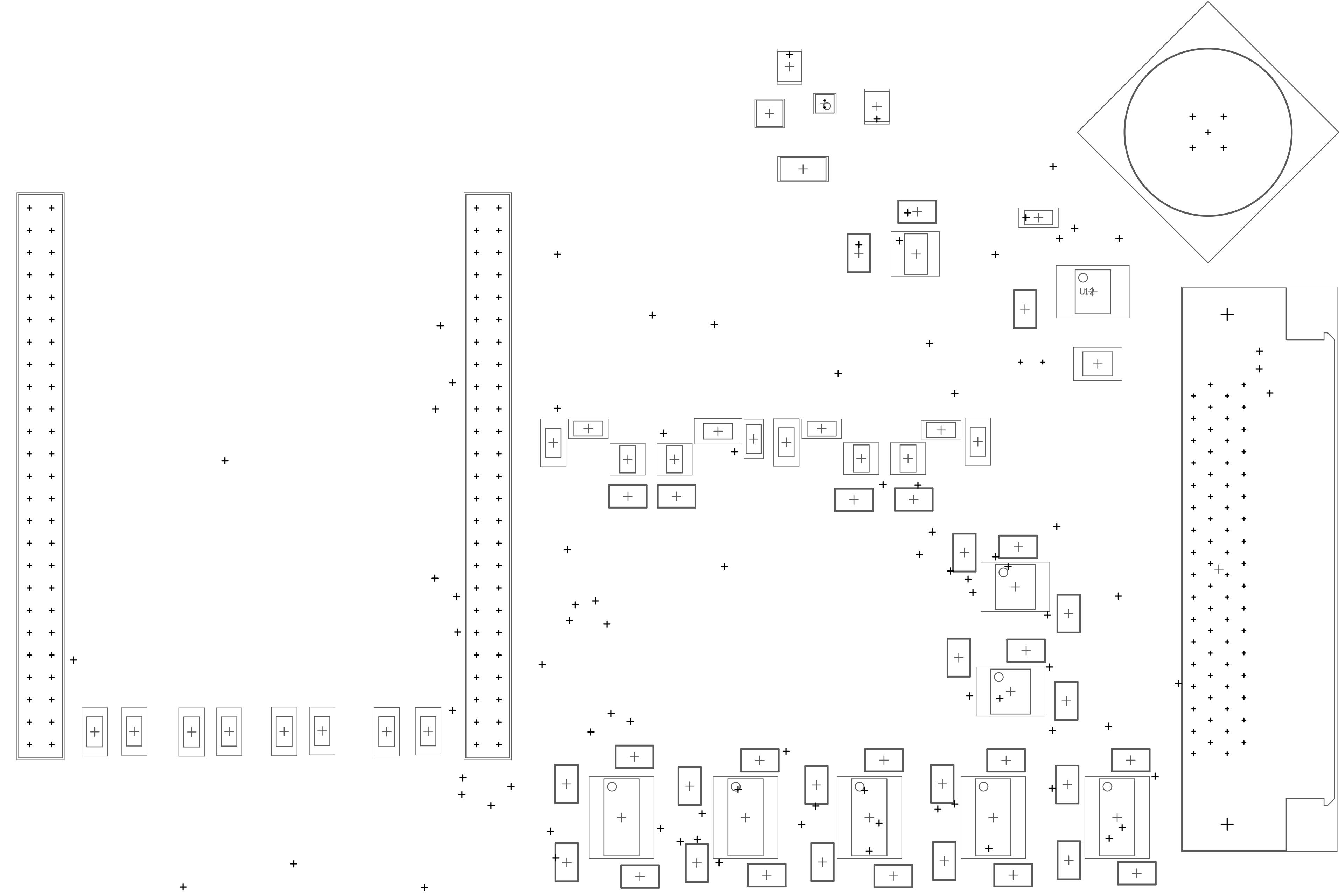












Line #	Name	Description	Designator	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1	
C0603C104K5RACTU			C1, C2, C3, C4, C5	31								
CAP 22uF 16	CAP 22uF 16V ±10% 1210 (3225 Me)		C31, C33	2	KEMET	C1210C226K4PAC-TU	Volume Production	Digi-Key	399-5092-1-ND	0.66	1.32	
C0805C105K4RACTU			C34, C35	2								
Header 0	Header, 2-Pin		H1	1								
1542761	Connector		J1	1								
SRN3015-2R	Semi-shielded Power Inductor, 2.2 uH	L1	1	Bourns	SRN3015-2R2M	Volume Production	Mouser	652-SRN3015-2R2M		0.32	0.32	
SSW-125-01	SQ Post Socket, Through-hole, Vertical	P1, P2	2	Samtec	SSW-125-01-F-D	Volume Production	Arrow	SSW-125-01-F-D		4.92	9.83	
2-5174225-5	Male D-Sub Connector, Pitch 1.27 mm	P3	1	TE Connectivity	2-5174225-5	Volume Production	Arrow	2-5174225-5		19.23	19.23	
CRCW1206523RFKEA			R1, R4, R5, R8	4	Vishay	CRCW1206523RFKEA	Volume Production	Future Electronic	CRCW1206523RFKEA-CUTT	0.0359	0.1436	
CRCW12061	Chip Resistor, 1 KOhm, +/- 1%, 0.25 W	R2, R3, R6, R7	4	Vishay	CRCW12061K00FKEA	Volume Production	Digi-Key	541-1.00KFDKR-ND		0.1	0.4	
ERJ-14YJ121U			R9	1	Panasonic	ERJ14YJ121U	Volume Production	Future Electronic	ERJ-14YJ121U-CUTT		0.0866	0.0866
ERJ-8GEYJ103V			R10	1	Panasonic	ERJ8GEYJ103V	Volume Production	Future Electronic	ERJ-8GEYJ103V-CUTT		0.0105	0.0105
100K 5% 201	100K 0.75W 5% 2010 (5025 Metric)	R11	1	Panasonic	ERJ-12ZYJ104U	Volume Production	Arrow	ERJ-12ZYJ104U		0.247	0.247	
CRCW12064	Chip Resistor, 4.7 KOhm, +/- 1%, 0.2 W	R12, R14, R16, R1	4	Vishay	CRCW12064K70FKEA	Volume Production	Future Electronic	CRCW12064K70FKEA-CUTT		0.015	0.06	
ERA8AE912V			R13, R15, R17, R1	4	Panasonic	ERA8AE912V	Volume Production	Mouser	667-ERA-8AE912V		0.66	2.64
BT54160DG	Smart High-Side Power Switch, 2 Channel	U1, U2, U3, U4, U5	5									
TXB0104PW	4-Bit Bidirectional Voltage-Level Translator	U6, U7	2									
MCP6001T-I	1 MHz, Low-Power Operational Amp	U8, U11	2									
MCP6001T-L	1 MHz, Low-Power Operational Amp	U9, U10	2									
SN65HVD23	CAN Bus Transceiver, 3.3 V, -40 to 85°C	U12	1	Texas Instruments	SN65HVD230D	Volume Production	Newark	75C7744		1.71	1.71	
TPS62173DS	Buck Step Down Regulator with 3 to 5V Output	U13	1									
MCP1702T-250	250 mA Low Quiescent Current LDO	U14	1	Microchip	MCP1702T-3302E/MB	Volume Production	Arrow	MCP1702T-3302E/MB		0.4553	0.4553	