

A

B

C

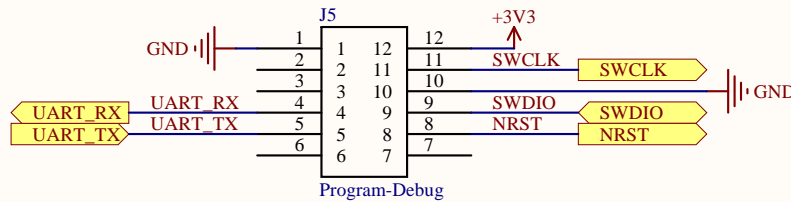
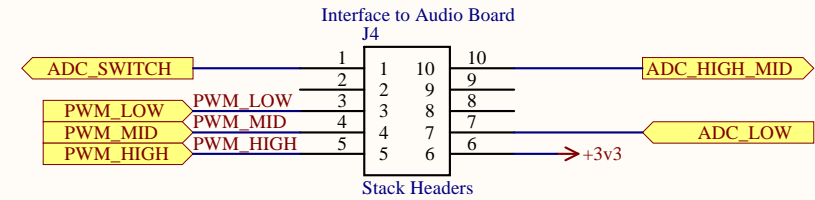
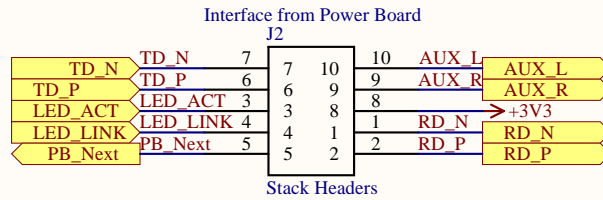
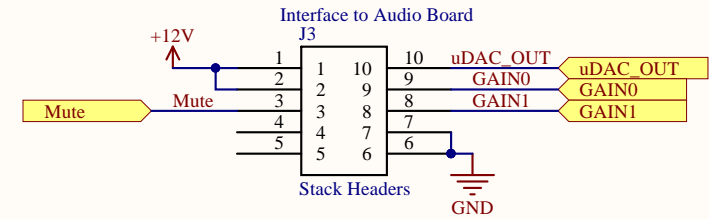
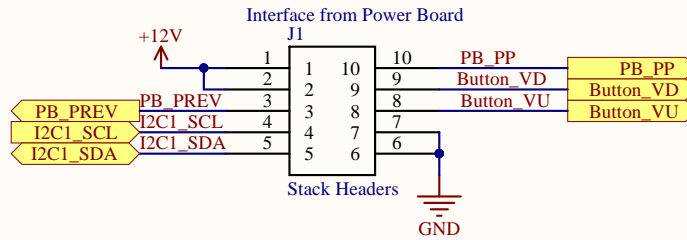
D

A

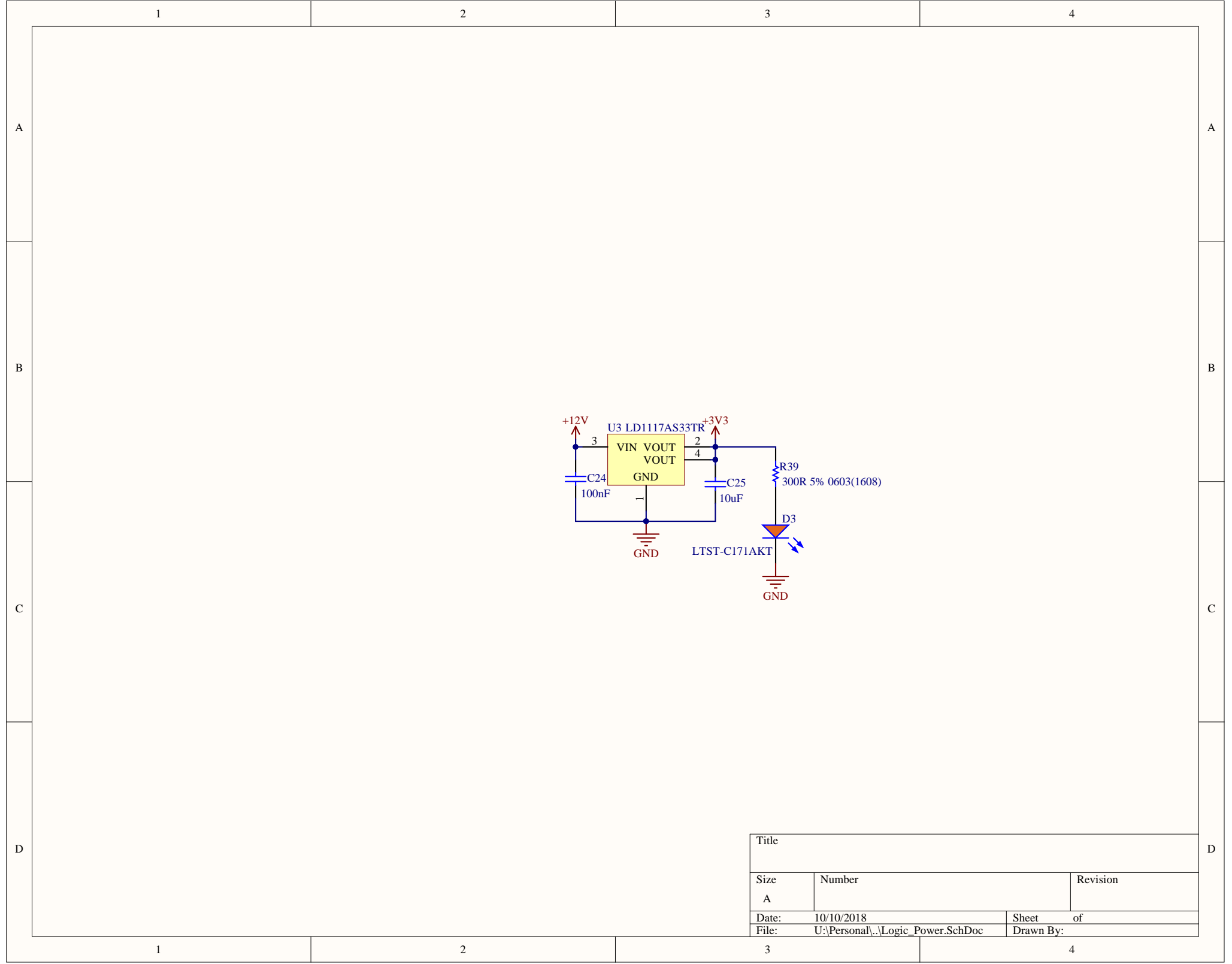
B

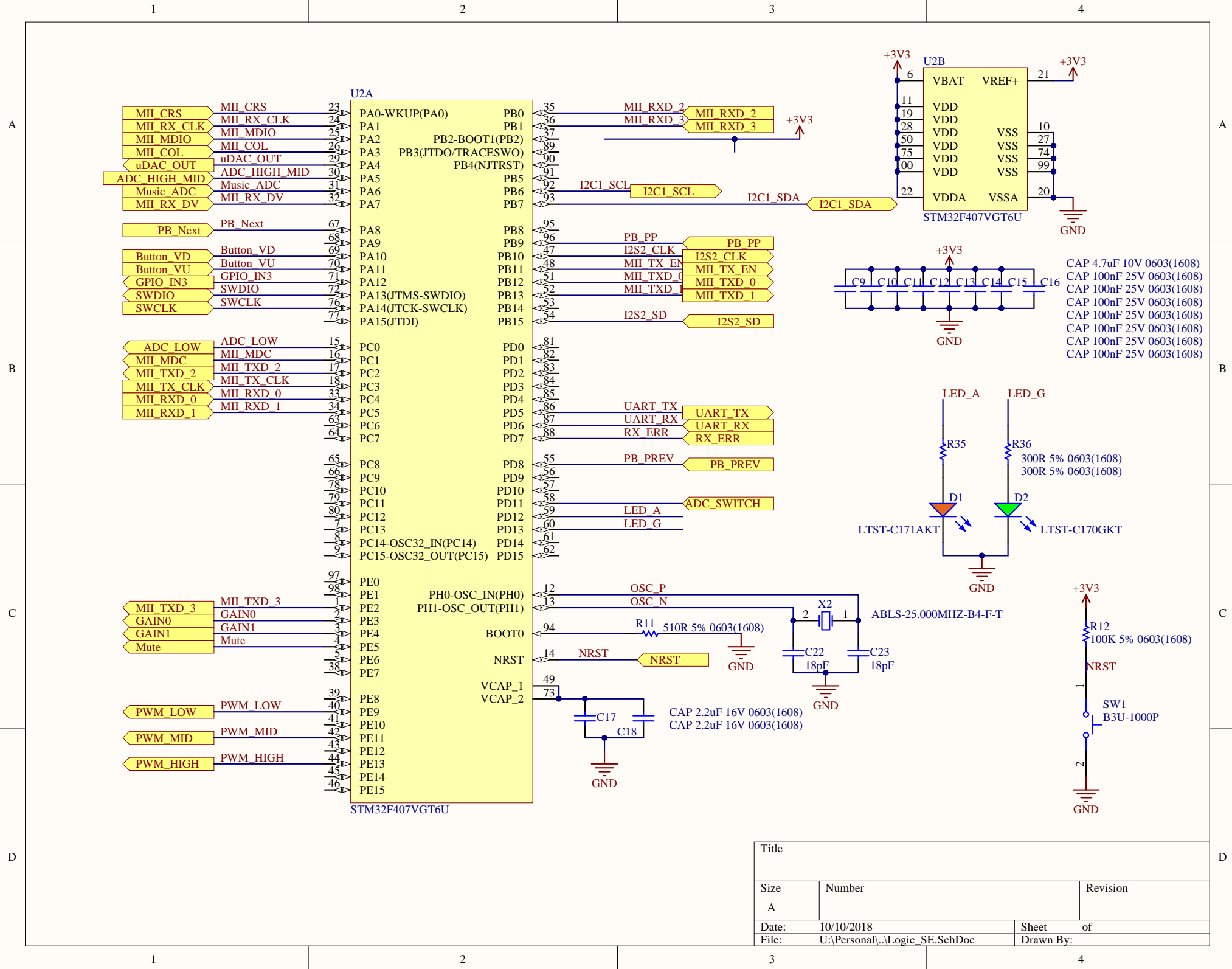
C

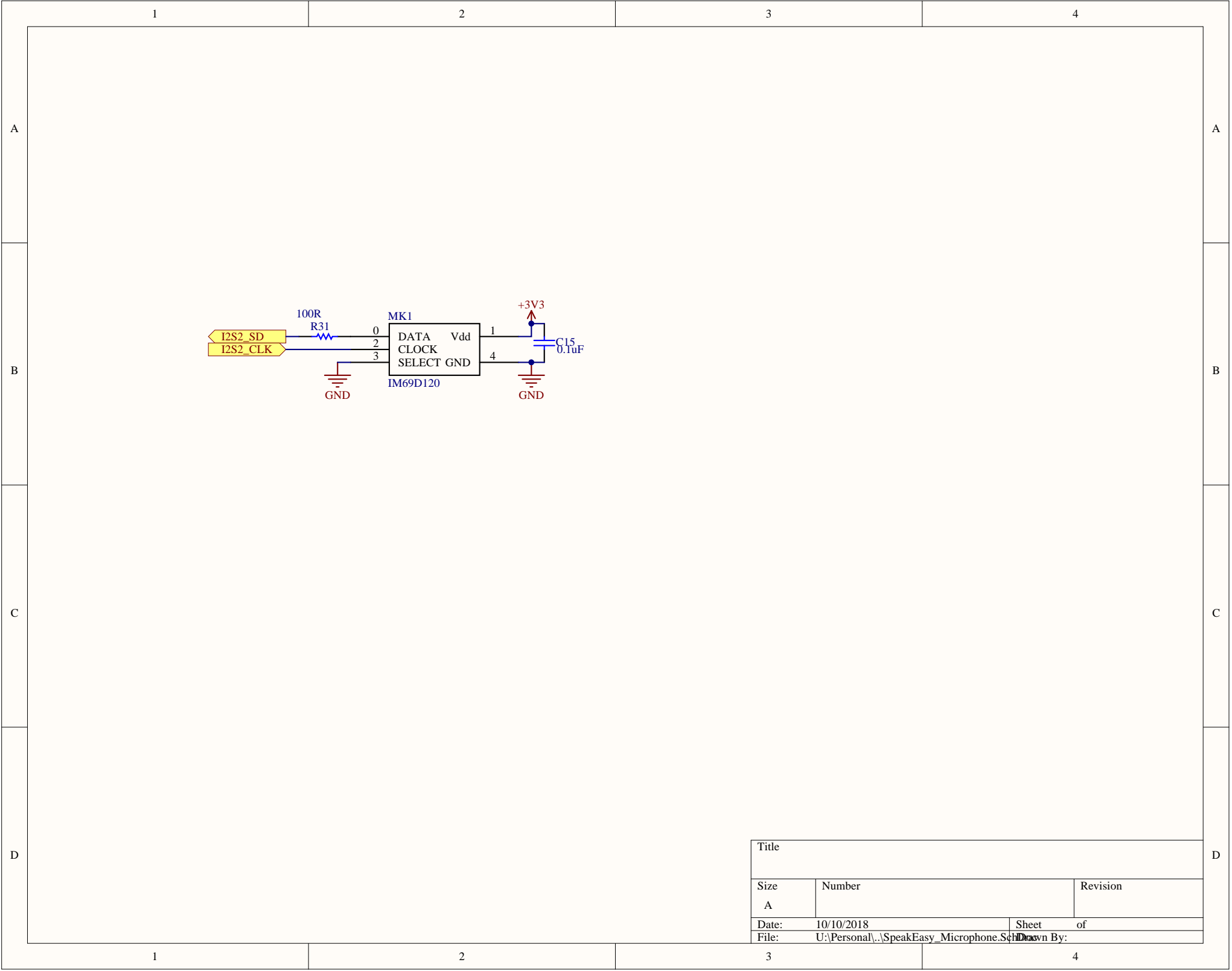
D

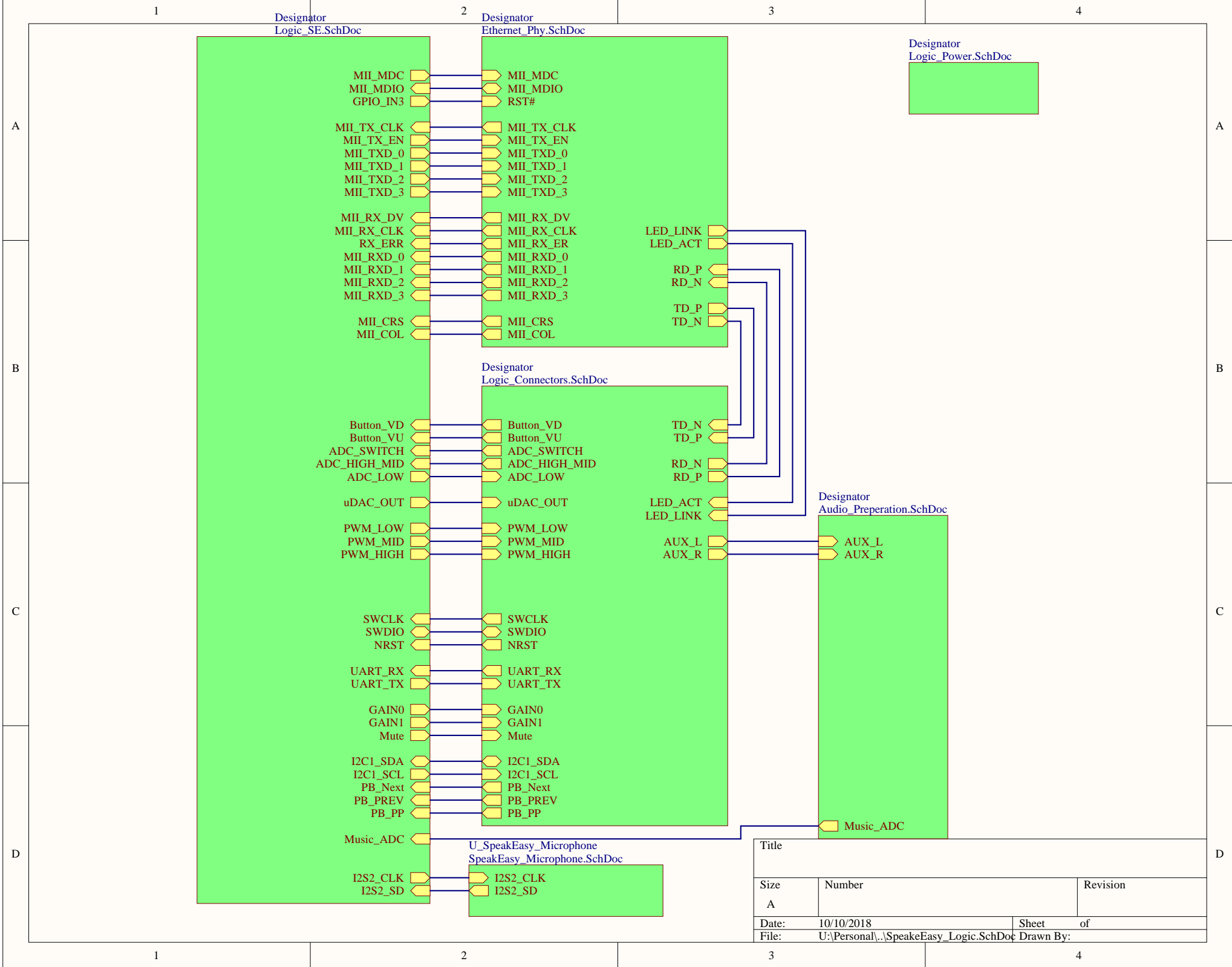


Title		
Size	Number	Revision
A		
Date:	10/10/2018	Sheet of
File:	U:\Personal\...\Logic_Connectors.SchDoc	Drawn By:

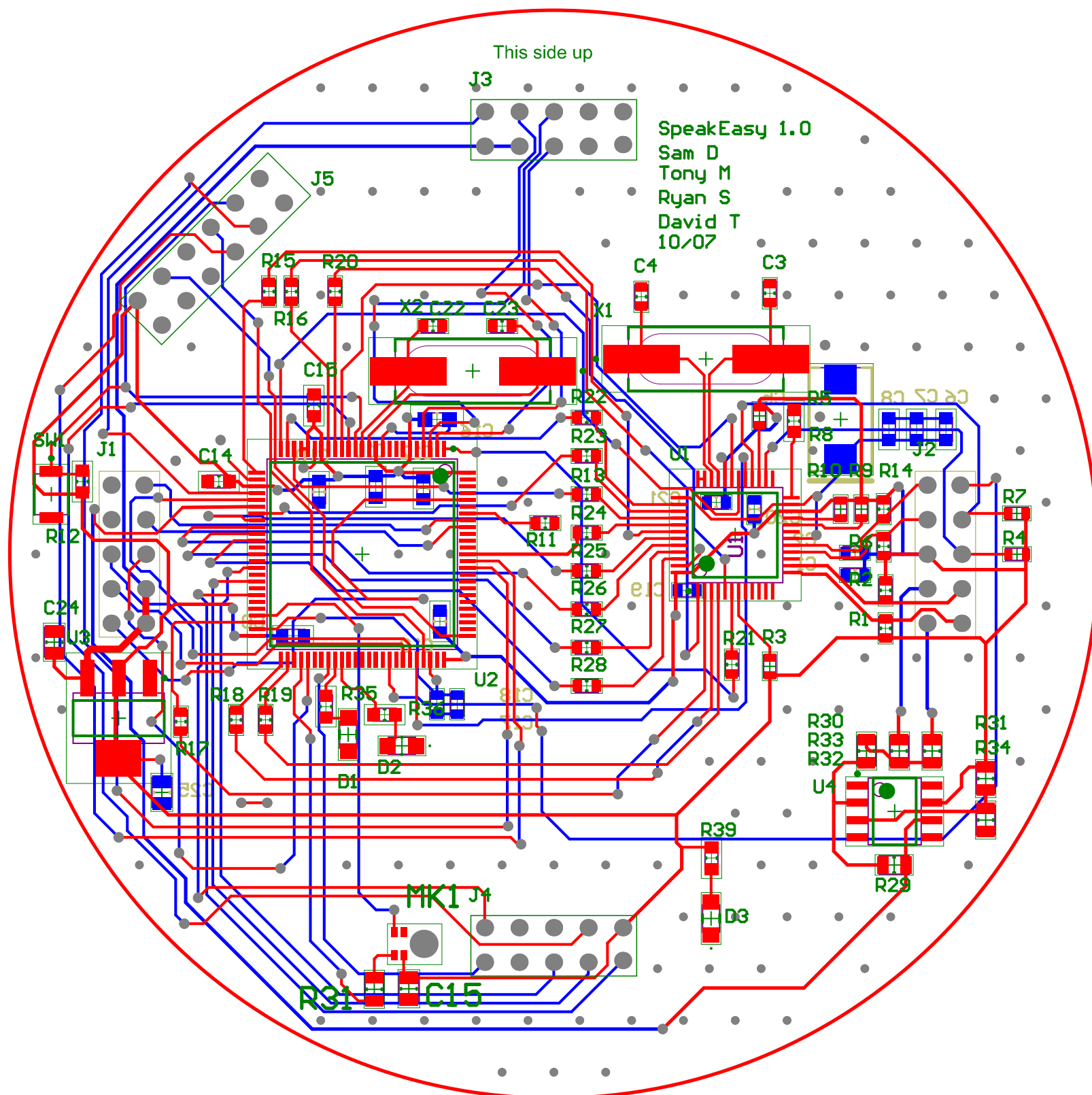


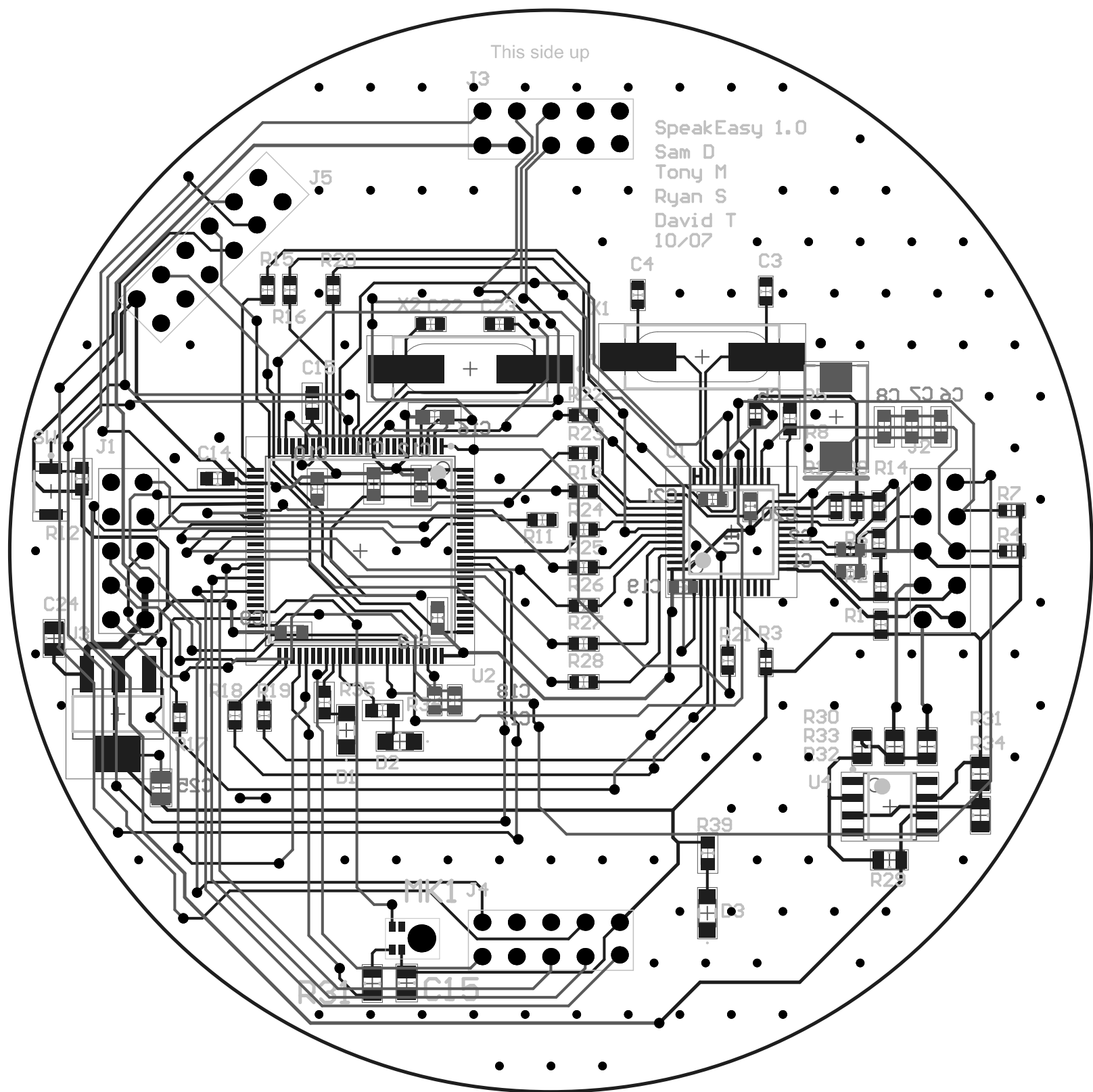


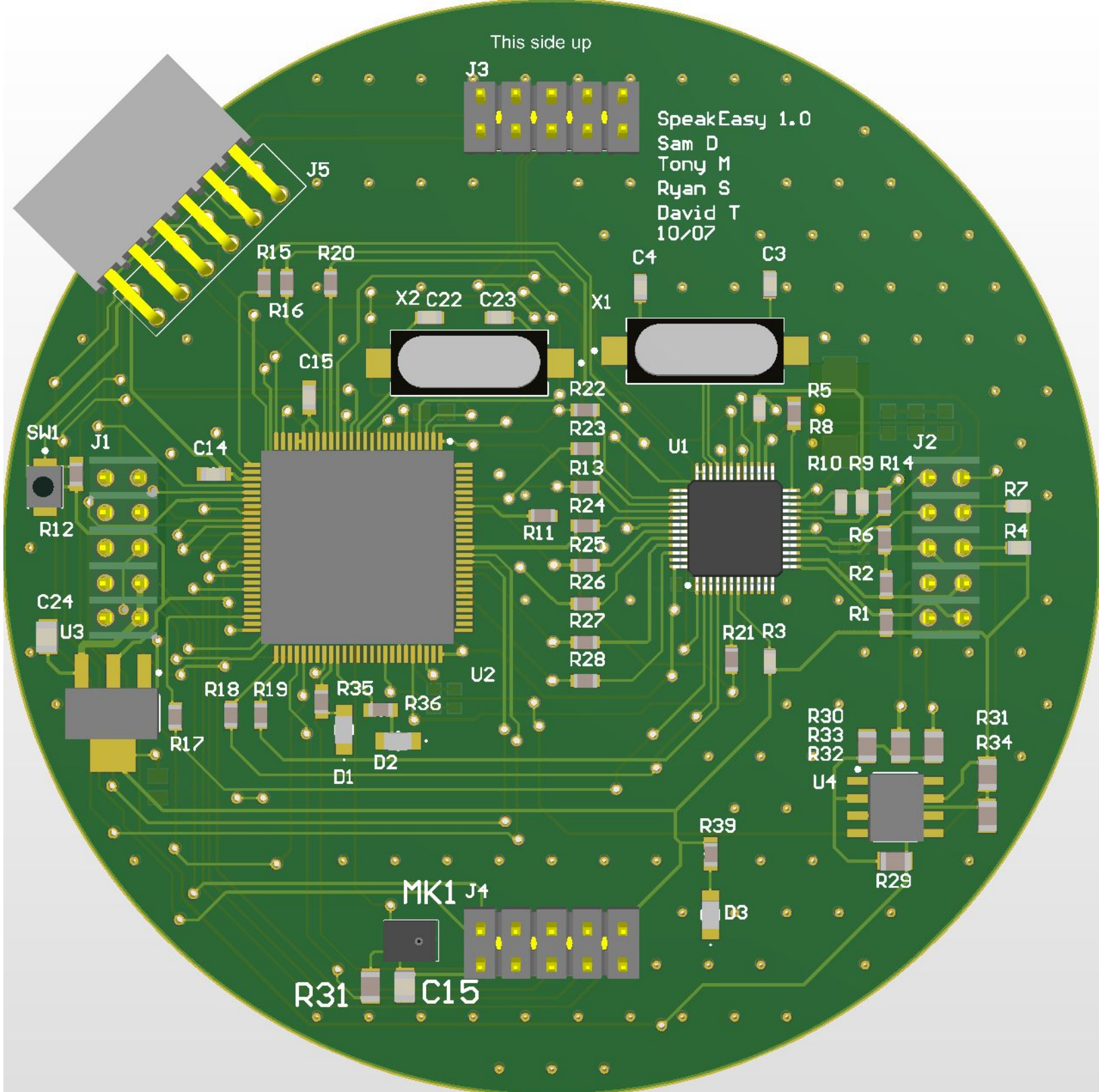




Title		
Size	Number	Revision
A		
Date:	10/10/2018	Sheet of
File:	U:\Personal\...\SpeakEasy_Logic.SchDoc	Drawn By:







Comment	Description	Designator	Footprint	LibRef	Quantity
0.1uF	0603 (1608 Metric) Chip Capacitor	C1, C2, C19, C20, C21	CAPC0603(1608)100_L	CMP-1590-00005-1	5
18pF	0603 (1608 Metric) Chip Capacitor	C3, C4, C22, C23	CAPC0603(1608)100_L	CMP-1590-00005-1	4
T491D106K035AT	Tantalum Capacitor, 10 uF, +/- 10%, 35 V, -55 to 125 degC, 2-Pin SMD, RoHS, Tape and Reel	C5	KEMT-T491-D_L	CMP-2000-07580-1	1
CAP 1uF 16V 0603(1608)	CAP 1uF 16V ±5% 0603 (1608 Metric) Thickness 1mm SMD	C6, C7, C8	CAPC0603(1608)100_N	CMP-1035-02736-1	3
CAP 100nF 25V 0603(1608)	CAP 100nF 25V ±20% 0603 (1608 Metric) Thickness 1mm SMD	C9, C10, C11, C12, C13, C14, C15	CAPC0603(1608)100_N	CMP-1035-02589-1	7
0.1uF	0805 (2012 Metric) Chip Capacitor	C15	CAPC0805(2012)145_L	CMP-1590-00003-1	1
CAP 4.7uF 10V 0603(1608)	CAP 4.7uF 10V ±20% 0603 (1608 Metric) Thickness 1mm SMD	C16	CAPC0603(1608)100_M	CMP-1035-02787-1	1
CAP 2.2uF 16V 0603(1608)	CAP 2.2uF 16V ±20% 0603 (1608 Metric) Thickness 0.55mm SMD	C17, C18	CAPC0603(1608)55_L	CMP-1035-02764-1	2
100nF	0805 (2012 Metric) Chip Capacitor	C24	CAPC0805(2012)145_L	CMP-1590-00003-1	1
10uF	0805 (2012 Metric) Chip Capacitor	C25	CAPC0805(2012)145_L	CMP-1590-00003-1	1
LTST-C171AKT	LED AMBER CLR THIN 0805 SMD	D1, D3	LTST-C171AKT_V	CMP-1674-00004-3	2
LTST-C170GKT	LED GREEN CLEAR 0805 SMD	D2	LTST-C170GKT_V	CMP-1674-00002-2	1
Stack Headers		J1, J2	SSW-105	Stack Headers	2
Stack Headers		J3, J4	TSW-105	Stack Headers	2
Program-Debug		J5	SSW_Double_Header	Program-Debug	1
IM69D120	High Performance MEMS microphone utilizing PDM	MK1	M69D120	IM69D120	1
49.9R	0603 (1608 Metric) Chip Resistor	R1, R2, R6, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28	RESC0603(1608)_L	CMP-1591-00001-1	19
RC0603JR-072K2L	Chip Resistor, 2.2 KOhm, +/- 5%, 0.1 W, -55 to 155 degC, 0603 (1608 Metric), RoHS, Tape and Reel	R3, R4, R5, R7, R9, R10	RESC1608X55X25LL10T15	CMP-2000-06957-1	6
4K87 1% 0603(1608)	4K87 0.1W 1% 0603 (1608 Metric) SMD	R8	RESC0603(1608)_N	CMP-1012-00588-1	1
510R 5% 0603(1608)	510R 0.1W 5% 0603 (1608 Metric) SMD	R11	RESC0603(1608)_L	CMP-1012-00067-1	1
100K 5% 0603(1608)	100K 0.1W 5% 0603 (1608 Metric) SMD	R12	RESC0603(1608)_N	CMP-1012-00122-1	1
7K5	0805 (2012 Metric) Chip Resistor	R29	RESC0805(2012)_L	CMP-1591-00002-1	1
5k	0805 (2012 Metric) Chip Resistor	R30, R33	RESC0805(2012)_L	CMP-1591-00002-1	2
20k	0805 (2012 Metric) Chip Resistor	R31	RESC0805(2012)_L	CMP-1591-00002-1	1
100R	0805 (2012 Metric) Chip Resistor	R31	RESC0805(2012)_L	CMP-1591-00002-1	1
10K	0805 (2012 Metric) Chip Resistor	R32, R34	RESC0805(2012)_L	CMP-1591-00002-1	2
300R 5% 0603(1608)	100K 0.1W 5% 0603 (1608 Metric) SMD	R35, R36, R39	RESC0603(1608)_N	CMP-1012-00122-1	3
B3U-1000P	Ultra-Small Tactile Switch, 0.05 A, 12 V, -25 to 70 degC, 2-Pin SMD, RoHS, Tape and Reel	SW1	OMRON-B3U-1000_V	CMP-2100-03586-1	1
DP83848IVVX/NOPB	PHYTER® Industrial Temperature Single Port 10/100 Mb/s Ethernet Physical Layer Transceiver, 48-pin LOFP, Pb-Free, 1000 Reel	U1	PT0048A_L	CMP-0058-01357-3	1
STM32F407VGT6U	ARM Cortex-M4 32-bit MCU + FPU, 210 DMIPS, 1024 kB Flash, 192 kB Internal RAM, 82 I/Os, 100-pin LOFP, -40 to 85 degC, Tray	U2	STM-LQFP100_V	CMP-0243-00032-2	1
LD1117AS33TR	1A, Low Drop Positive Voltage Regulator, 3.3V, 4-Pin SOT-223, Tape and Reel	U3	SOT-223_M	CMP-0244-00316-1	1
MC33201D	Low Voltage, Rail-to-Rail Operational Amplifier, 1.8 to 12 V, -40 to 105 degC, 8-Pin SOIC, Tube	U4	ONSC-SOIC-8-751-07_V	CMP-1310-00330-1	1
ABLS-25.000MHZ-B4-F-T	Low Profile Surface Mount Microprocessor Crystal, 25 MHz +/-30 ppm, 180 Ohm, -40 to 85 degC, 2-Pin 11.4 x 4.7 x 3.3 mm SMD, RoHS, Tape and Reel	X1, X2	ABRA-ABLS2-2_V	CMP-0277-00002-1	2