









A		B	C	D	E	F	G
1	Component Count:	50					
2	Ref	Qty	Value	Comp name	Footprint	Description	
3							
4							
5	C1, C2, C3, C4,	4	22p	CC1206JRNPOABN220	Capacitor_SMD_C_1206_3216Metric_Pad1.33x1.80mm_HandSolder	Unpolarized capacitor	
6							
7	C5, C6, C7, C8, C9, C10, C11,	7	1uF	GCM31MR71H105KA55L	Capacitor_SMD_C_1206_3216Metric_Pad1.33x1.80mm_HandSolder	Unpolarized capacitor	
8							
9	C12, C13,	2	4.7uF	ULR2G4R7MNL1GS	Capacitor_SMD_CP_Elec_8x10		
10							
11	C14, C15, C16,	3	10uF	CL31A106KBHNNNE	Capacitor_SMD_C_1206_3216Metric_Pad1.33x1.80mm_HandSolder	Unpolarized capacitor	Vendor
12							
13	C17,	1	1220uF 35V	UUD1V221MNL1GS	Capacitor_SMD_CP_Elec_8x10		
14							
15	D1,	1	US1M	US1M	Diode_SMD_D_SMA_HandSoldering	Diode	
16							
17	D2, D3,	2	1N5819	1N5819	Diode_SMD_D_SOD-323_HandSoldering	Diode	
18							
19	F1,	1	Polyfuse	MF-MSMF110	Fuse_Fuse_1812_4532Metric_Pad1.30x3.40mm_HandSolder	Resettable fuse, polymeric positive temperature coefficient	
20							
21	H1, H2, H3, H4,	4	MountingHole	MountingHole	MountingHole_MountingHole_3.2mm_M3	Mounting Hole without connection	
22							
23	J1,	1	Conn_01x10_Male	B-2100N10P-B110	Connector_PinHeader_2.54mm_PinHeader_2x05_P2.54mm_Vertical_SMD	Generic connector, single row, 01x10, script generated (kicad-library-utils/schlib/autogen/connector/)	
24							
25	J2, J3, J4, J6,	4	Conn_01x06_Male	B-2100N06P-B111	Connector_PinHeader_2.54mm_PinHeader_2x03_P2.54mm_Vertical_SMD	Generic connector, single row, 01x06, script generated (kicad-library-utils/schlib/autogen/connector/)	
26							
27	J5,	1	USB_C_Receptacle_USB2.0	TYPE-C-31-M-12	Connector_USB_USB_C_Receptacle_Palconn_UTC16-G	USB 2.0-only Type-C Receptacle connector	
28							
29	L1,	1	220uH	SLH1207S221MTT	Inductor_SMD_L_Wuerth_WE-PD-Typ-LS_HandSoldering	Inductor	
30							
31	Q1,	1	NMOS	STD4NK60ZT4	Package_TO_SOT_SMD:TO-252-2	N-MOSFET transistor, gate/drain/source	
32							
33	R1, R2, R7,	3	10k	1206W4F1002T5E	Resistor_SMD_R_1206_3216Metric_Pad1.30x1.75mm_HandSolder	Resistor	
34							
35	R3, R10,	2	0R	1206W4F0000T5E	Resistor_SMD_R_1206_3216Metric_Pad1.30x1.75mm_HandSolder	Resistor	
36							
37	R4, R5,	2	5k1	RC1206FR-075K1L	Resistor_SMD_R_1206_3216Metric_Pad1.30x1.75mm_HandSolder	Resistor	
38							
39	R6,	1	10R	1206W4F100JT5E	Resistor_SMD_R_1206_3216Metric_Pad1.30x1.75mm_HandSolder	Resistor	
40							
41	R8,	1	1M	1206W4F1004T5E	Resistor_SMD_R_1206_3216Metric_Pad1.30x1.75mm_HandSolder	Resistor	
42							
43	R9,	1	1N	1206W4F0000T5E	Resistor_SMD_R_1206_3216Metric_Pad1.30x1.75mm_HandSolder	Resistor	
44							
45	SW1,	1	SW_Push	1T5005F-2500-5001	Button_Switch_SMD_SW_Push_1P1T_NO_6x6mm_H9.5mm	Push button switch, generic, two pins	
46							
47	U1,	1	AP1117-33	AP1117-33	Package_TO_SOT_SMD:SOT-223-3_TabPin2	1A Low Dropout regulator, positive, 3.3V fixed output, SOT-223	
48							
49	U2,	1	STM32F103C8Tx	STM32F103C8Tx	Package_QFP:LQFP-48_7x7mm_P0.5mm	ARM Cortex-M3 MCU, 64KB flash, 20KB RAM, 72MHz, 2-3.6V, 37 GPIO, LQFP-48	
50							
51	U3,	1	MIC4427	MIC4427	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm	Dual 1.5A-Peak Low-Side MOSFET Driver, DIP-8/SOIC-8/MSOP-8	
52							
53	U4,	1	ICL7660	ICL7660	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm	Switched-Capacitor Voltage Converter, 1.5V to 10.0V operating supply voltage, 10mA with a 0.5V output drop, SO-8/DIP-8/ÄµMAX-8/TQ-99	
54							
55	Y1,	1	8MHz	CL31A106KBHNNNE	Crystal_Crystal_SMD_HC49-SO	Two pin crystal	
56							
57	Y2,	1	32.768k	SMD31327681252090	Crystal_Crystal_SMD_G8-2Pin_3.2x1.5mm_HandSoldering	Two pin crystal	

