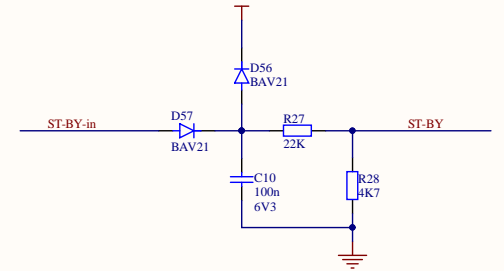
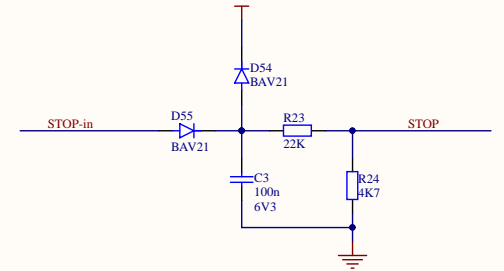
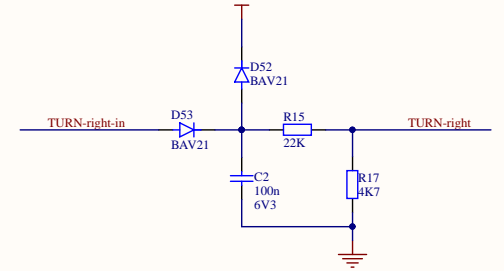
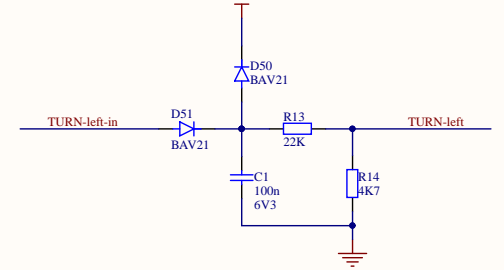
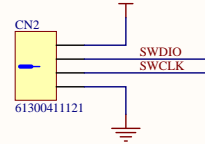
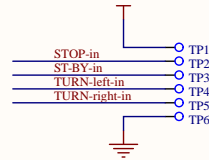
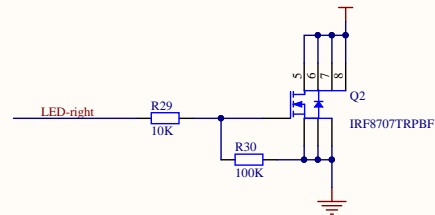
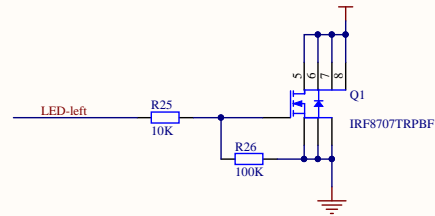
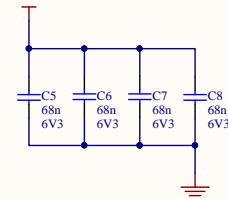
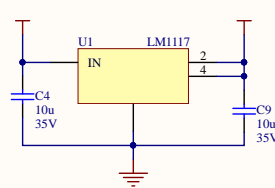
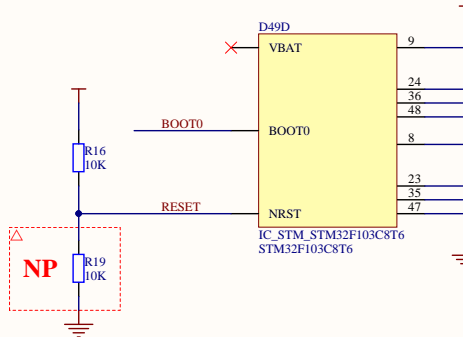
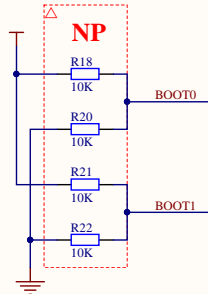
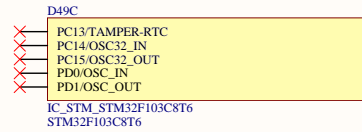
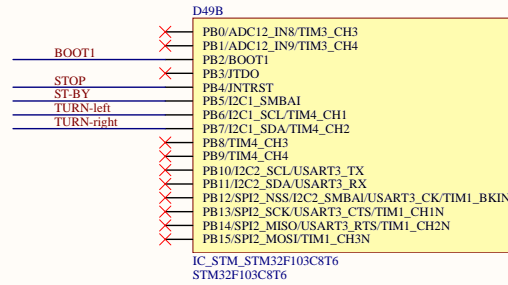
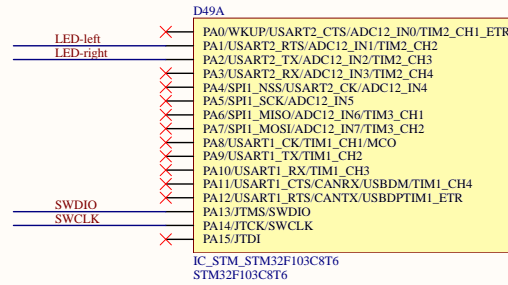
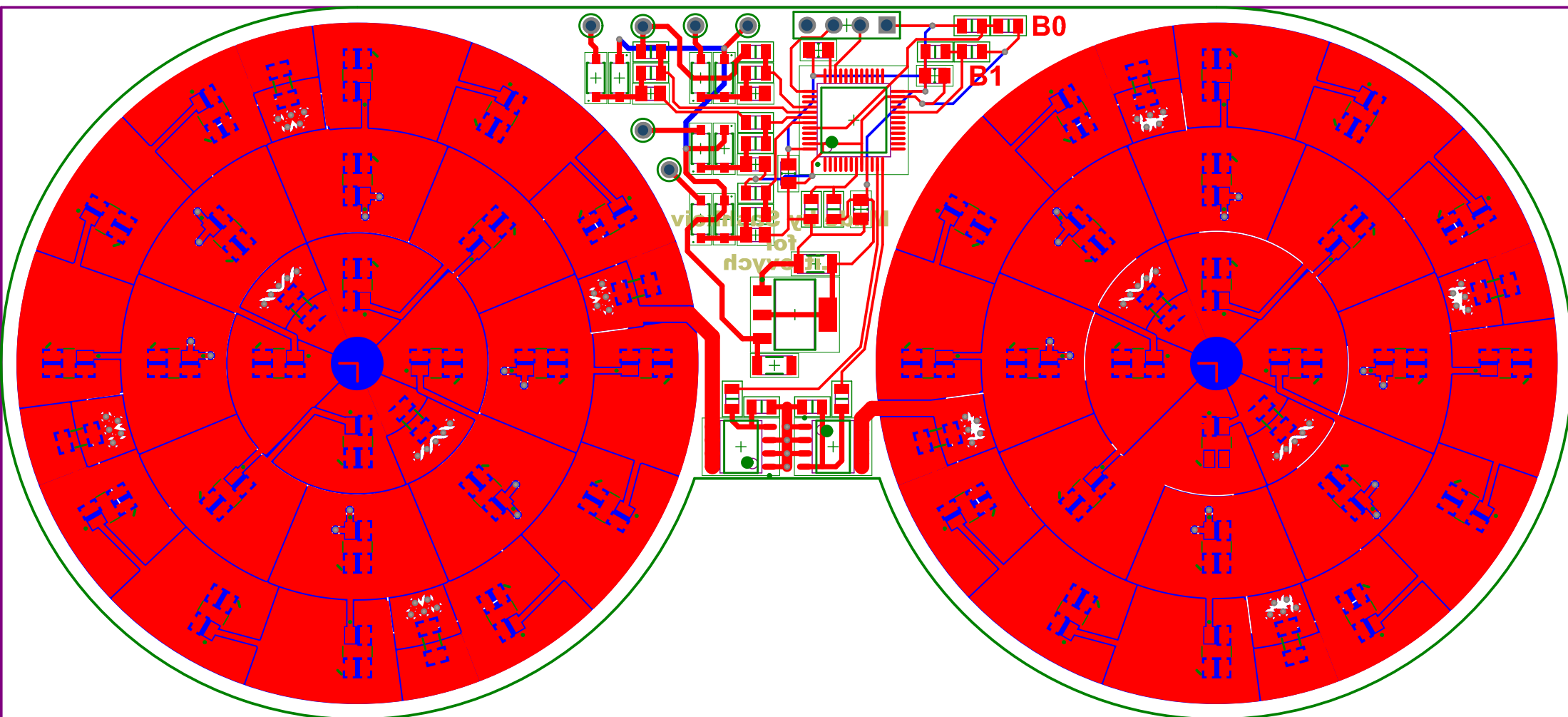
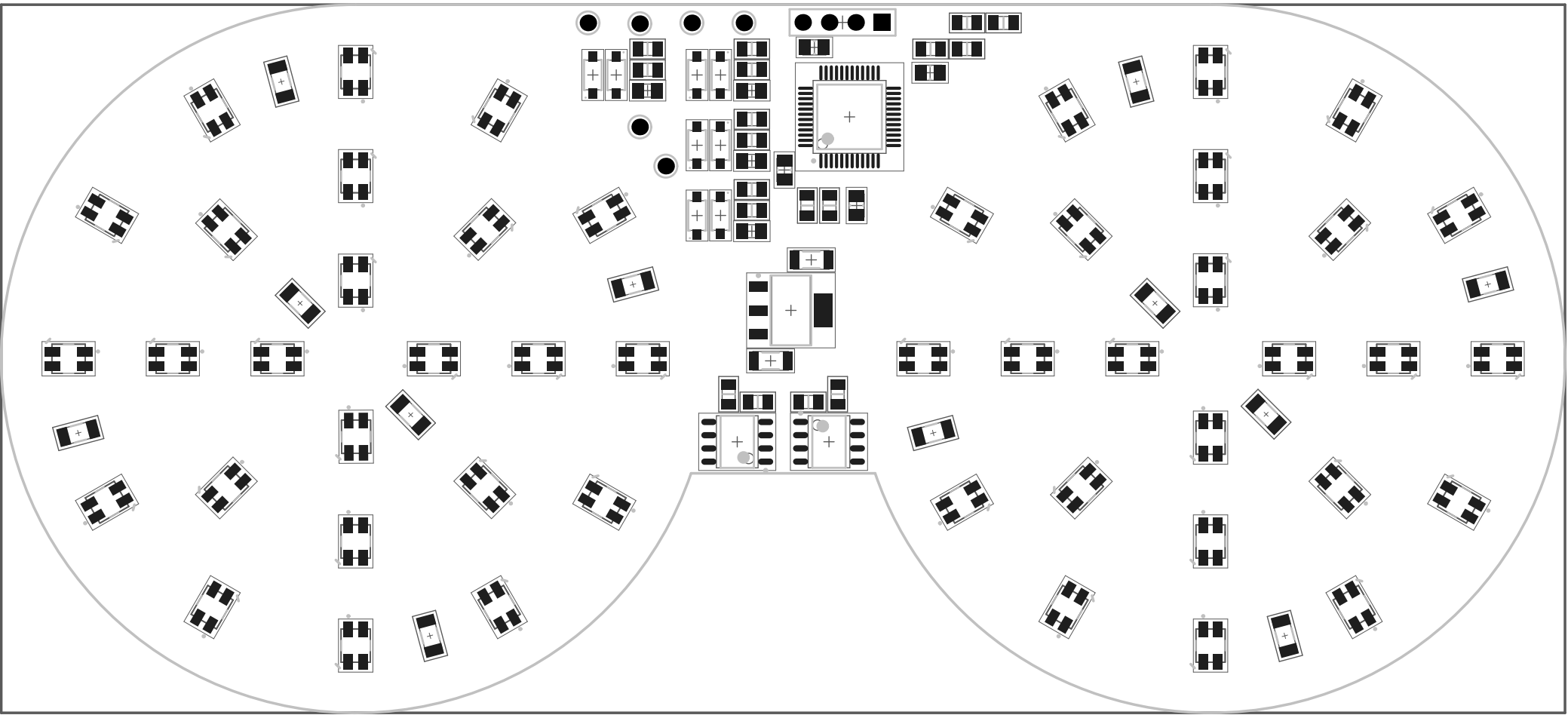


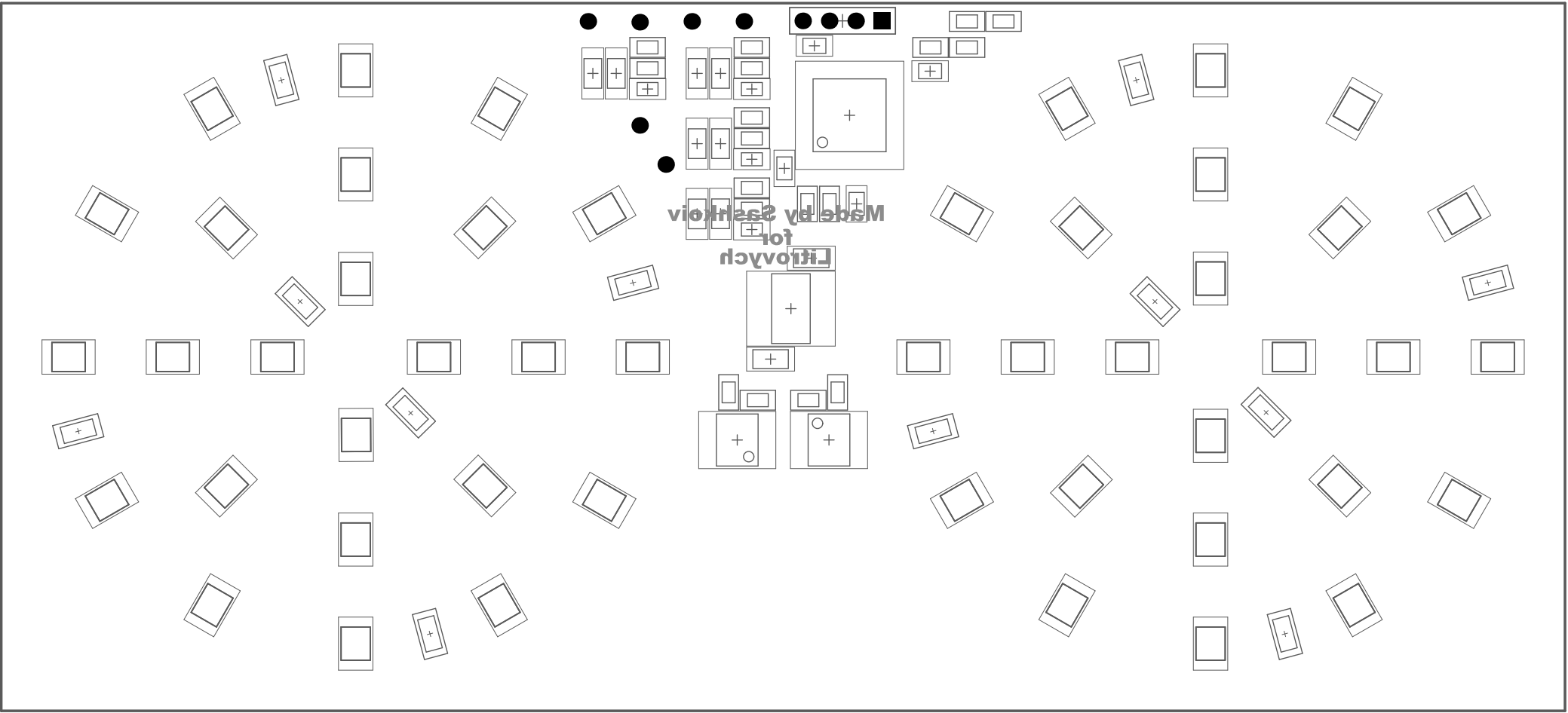
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Size A3	Number	Revision
Date:	9/27/2020	Sheet of
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Title		
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Date: 9/27/2020	Sheet of	Drawn By:
File: D:\shpergl_light_control_unit.SchDoc		







Description	Designator	Footprint	LibRef	Manufacturer	Manufacturer PN	Quantity	Comment
X7R 10% 0805	C1, C2, C3, C10	CAPC2012X88N	01_00637	KEMET	C0805CT04K9R ACTU	4	CAP
GRM31CR6YA106 KA12L - CAP, MLCC, X5R, 10UF, 35V, 1206	C4, C9	CAPC3216X18N	01_01484	Murata	GRM31CR6YA1 06KA12L	2	CAP
X7R 10% 0805	C5, C6, C7, C8	CAPC2012X100N	01_00635	KEMET	C0805C683K9R ACTU	4	CAP
4 pin female pin header, pitch 2.54mm	CN2	CN_WURTH_61300411121	02_00034	Wurth Electronics	61300411121	1	CN_1X4M
High Luminous PLCC4 Power Top SMD LED	D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36, D37, D38, D39, D40, D41, D42, D43, D44, D45,	DIO_Optosupply_OSR5PAS3C1A	03_00092	OptoSupply	OSR5PAS3C1A	48	DIO_LED_4pin, 3528
MCU 32BIT Cortex M3 64KB 20KB RAM 2X12 ADC	D49	TSQFP50P900X900X160-48N	07_00285	STM	STM32F103C8T 6	1	IC_STM_STM32 F103C8T6
Diodes - General Purpose, Power, Switching 250V 625mA 1A IFSM	D50, D51, D52, D53, D54, D55, D56, D57	SODFL370X136-2M	03_00081	Vishay	BAV21W-E3-08	8	DIO
IRF8707 MOSFET 30V 11A 11.9mOhm 6.2nC Qg	Q1, Q2	SOIC127P600X175-8N	19_00042	Infineon	IRF8707TRPBF	2	TRS_INFINEON _IRF8707TRPBF
1% SMT Resistor 1206	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12	RESC3116X65N	15_00388	Yageo	RC1206FR- 0768R	12	RES
RESISTOR, 0805, 22K, 1%, SMD	R13, R15, R23, R27	RESC2012X60N	15_00345	Yageo	RC0805FR- 0722K	4	RES
RESISTOR, 0805, 4K7, 1%, SMD	R14, R17, R24, R28 R16, R18, R19,	RESC2012X60N	15_00337	Yageo	RC0805FR- 074K7	4	RES
RESISTOR, 0805, 10K, 1%, SMD	R20, R21, R22, R25, R29	RESC2012X60N	15_00341	Yageo	RC0805FR- 0710K	8	RES
RESISTOR, 0805, 100K, 1%, SMD	R26, R30	RESC2012X60N	15_00353	Yageo	RC0805FR- 07100K	2	RES
LDO Voltage Regulators 800mA LDO LINEAR REG	U1	IC_TI_LM1117	07_00244	TI	LM1117MPX- 3.3/NOPB	1	IC_TI_LM1117