

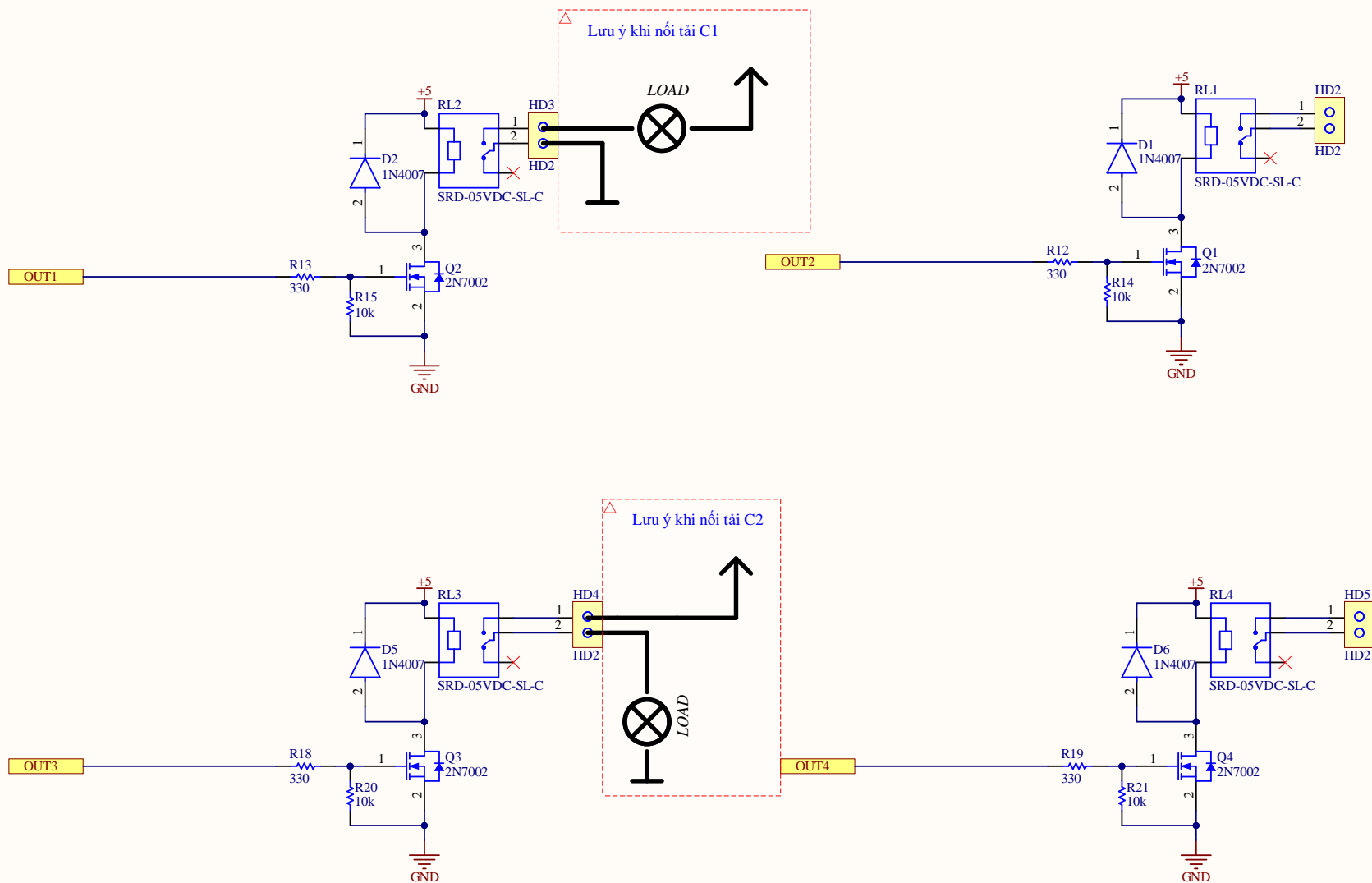
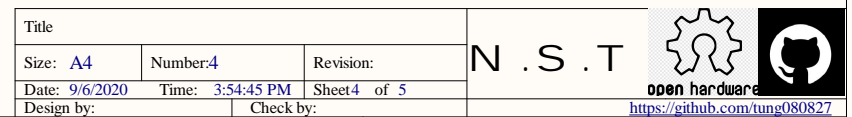
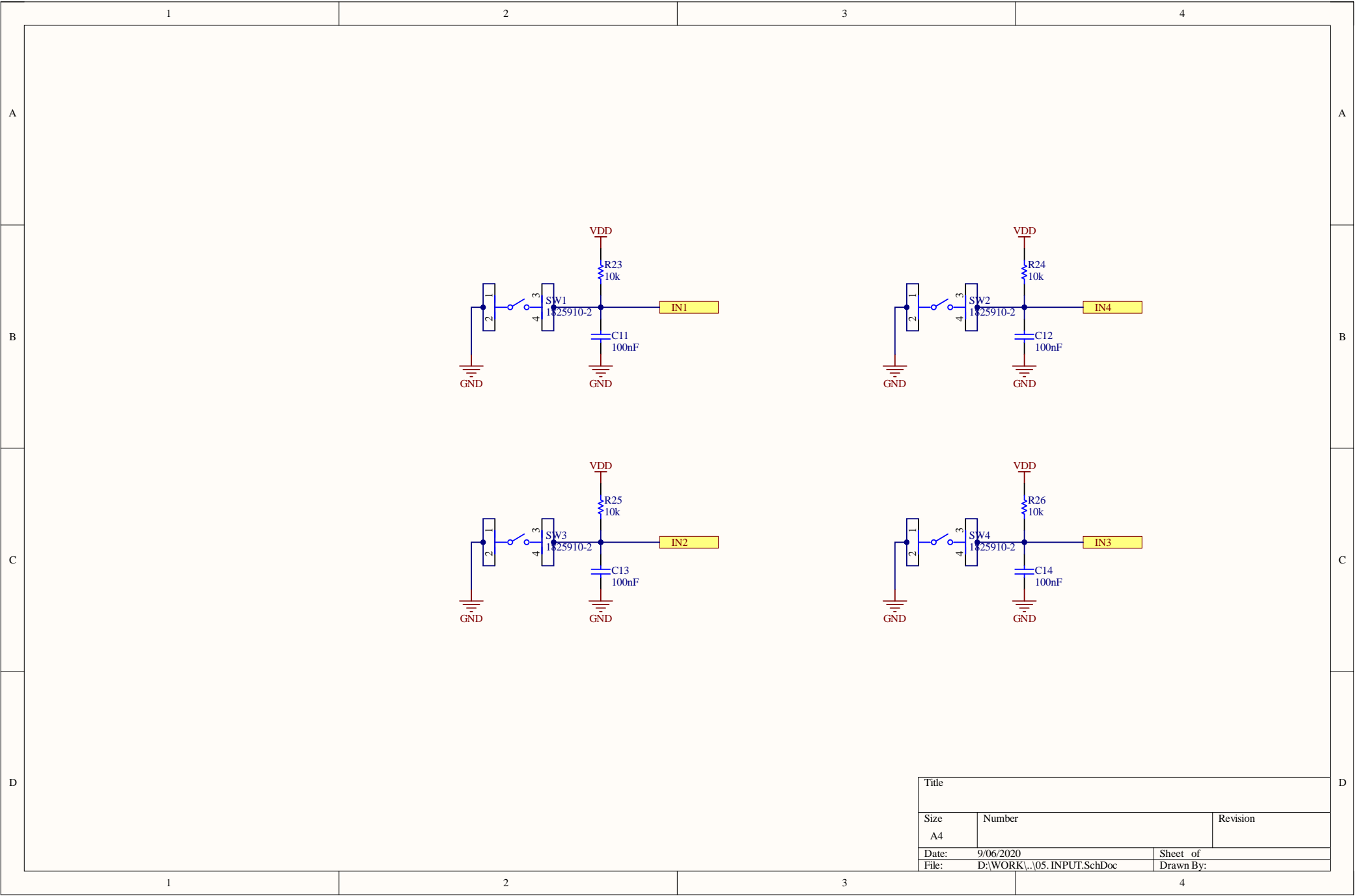
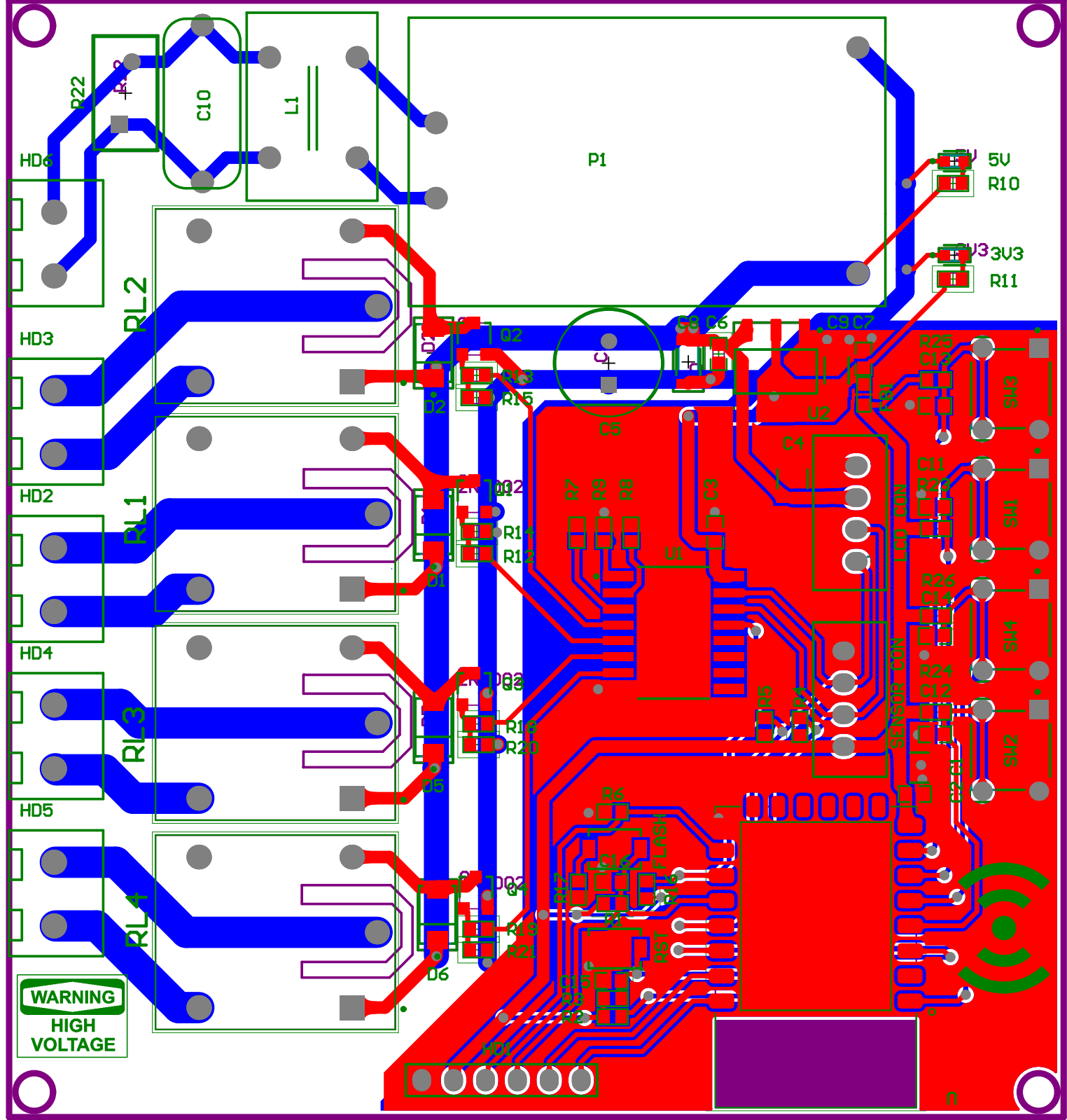


Title			N . S . T	 open hardware	 https://github.com/tung080827
Size: A4	Number: 2	Revision:			
Date: 9/6/2020	Time: 3:54:45 PM	Sheet 2 of 5			
Design by:	Check by:				









Comment	Description	Designator	Footprint	LibRef	Quantity
LTST-C191TBKT	LED BLUE CLEAR CHIP SMD	3V3, 5V	FP-LTST-C191TBKT-MFG	CMP-22017-000008-1	2
10uF	Chip Capacitor, 0.1 uF, +/- 10%, 50 V, -55 to 125 degC, 0603 (1608 Metric), RoHS, Tape and Reel	C1, C4	CAPC3225X220X30LL3 0	CMP-2100-03643-1	2
100nF	Chip Capacitor, 0.1 uF, +/- 10%, 50 V, -55 to 125 degC, 0603 (1608 Metric), RoHS, Tape and Reel	C2, C3, C6, C7, C11, C12, C13, C14, C15, C16	0603 CAP	CMP-2100-03643-1	10
220uF	CAP ALUM 220UF 20% 35V RADIAL	C5	FP-ESTG4-MFG	CMP-03015-000001-1	1
10uF	Cap Ceramic 10uF 25V X7R 10% Pad SMD 1206 +125°C Automotive T/R	C8, C9	FP-CGA5L-0_3-0_1-IPC_B	CMP-08246-002126-1	2
100nF/275V	Chip Capacitor, 0.1 uF, +/- 10%, 400 V, -55 to 125 degC, 0603 (1608 Metric), RoHS, Tape and Reel	C10	CAP 12.5mm Pitch	CMP-2100-03643-1	1
1N4007	DIODE GEN PURP 600V 1A SMA	D1, D2, D5, D6	FP-SMA-MFG	CMP-12188-000002-1	4
BLM18PG471SN1D	Chip Ferrite Bead for Power Lines, 470 Ohm, 1000 mA, -55 to 125 degC, 1.6 x 0.8 x 0.95 mm SMD, Tape and Reel	FB1	0603 Ferrite	CMP-0686-00587-2	1
TL1015AF160QG	SWITCH TACTILE SPST-NO 0.05A 12V	FLASH, RST	FP-TL1015AF160QG-MFG	CMP-17879-000003-1	2
HD6		HD1	HD6x1 2.54mm	HD6X1	1
HD2		HD2, HD3, HD4, HD5, HD6	HD2 5.08mm	HD2	5
U9.8		L1	INDUCTOR FILTER U9.8	INDUCTOR FILTER	1
HD4		LCD CON, SENSOR CON	XH4P 2.54mm	HD4x1	2
HiLink PSU		P1	HLK-5M05	HiLink PSU	1
2N7002	N-channel 60 V, 1.8 Ohm, 0.35 A StripFET(TM) II Power MOSFET, SOT23	Q1, Q2, Q3, Q4	STM-SOT-23-3_V	CMP-0434-00001-1	4
10k		R1, R2, R3, R6, R7, R8, R9, R14, R15, R16, R20, R21, R23, R24, R25, R26	0603 RES	CMP-2000-03818-1	16
4.7k		R4, R5	0603 RES	CMP-2000-03818-1	2
470		R10	0603 RES	CMP-2000-03818-1	1
330		R11, R12, R13, R18, R19	0603 RES	CMP-2000-03818-1	5
470R		R17	0603 RES	CMP-2000-03818-1	1
MOV-07D471KTR	VARISTOR 470V 1.2KA DISC 7MM	R22	FP-MOV-07D471KTR-MFG	CMP-07402-000006-1	1
SRD-05VDC-SL-C	5V Trigger Relay Module For Arduino And Raspberry Pi 5V Trigger Relay Module For Arduino And Raspberry Pi	RL1, RL2, RL3, RL4	RELAY_SRD-05VDC-SL-C	SRD-05VDC-SL-C	4
1825910-2	SWITCH TACTILE SPST-NO 0.05A 24V	SW1, SW2, SW3, SW4	FP-1825910-2-0	CMP-03407-000004-1	4
ESP8266-12E/ESP-12E	This WiFi module has a 32-bit MCU micro and clock speeds supporting 80 MHz or 160 MHz. Supports the RTOS and integrated Wi-Fi MAC/BB/RF/PA/LNA, and has an on-board antenna.	U	XCVR_ESP8266-12E/ESP-12E	ESP8266-12E/ESP-12E	1
PCF8574T/3,518	IC I/O EXPANDER I2C 8B 16SOIC	U1	FP-SOT162-1-MFG	CMP-10112-000010-1	1
AMS1117-3.3	LDO Voltage Regulators 1A, 3.3V	U2	FP-AMS1117-IPC_C	CMP-209535-000001-1	1