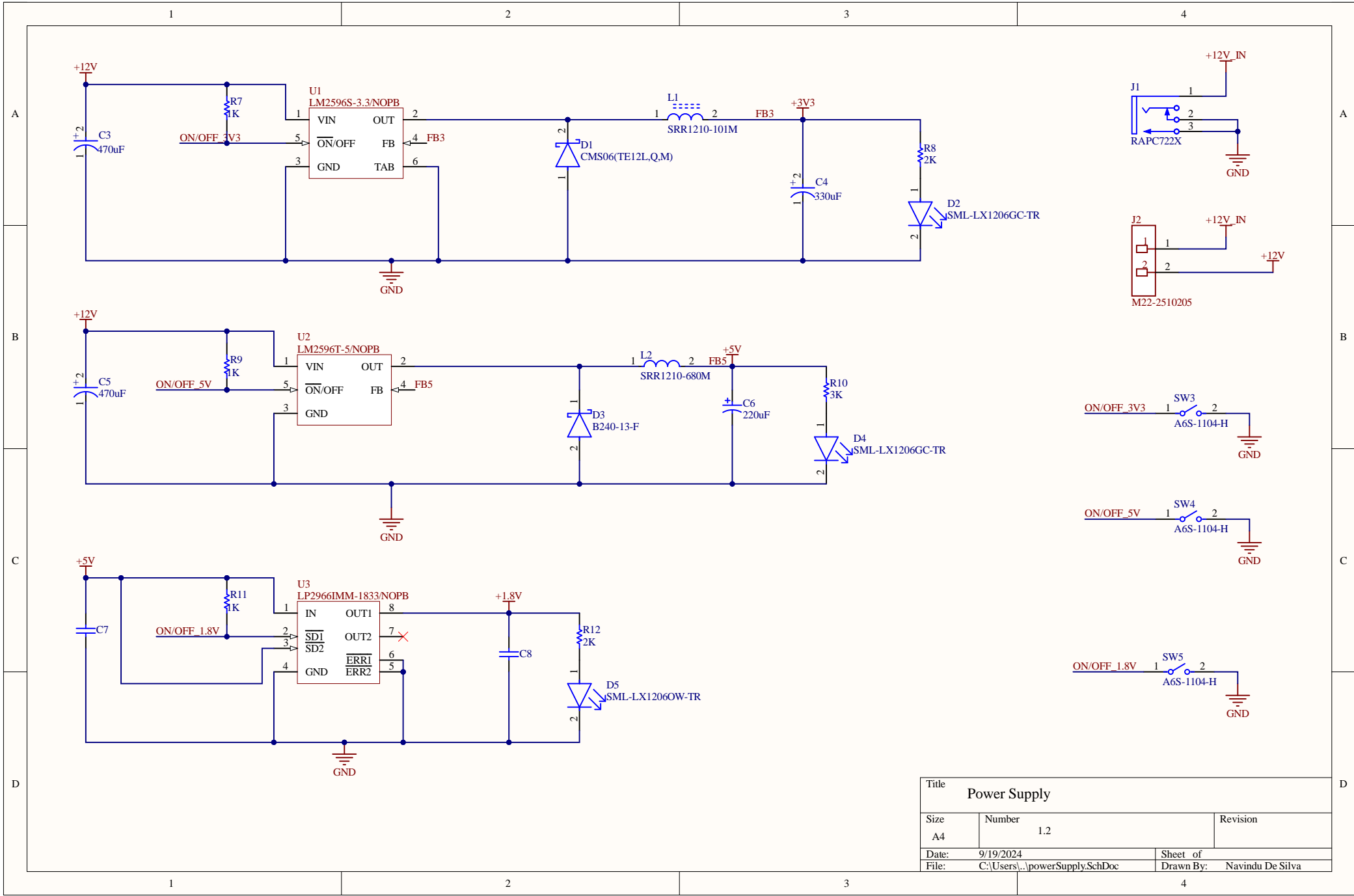
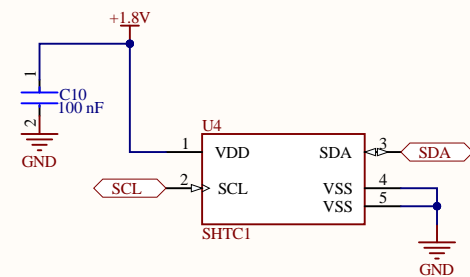


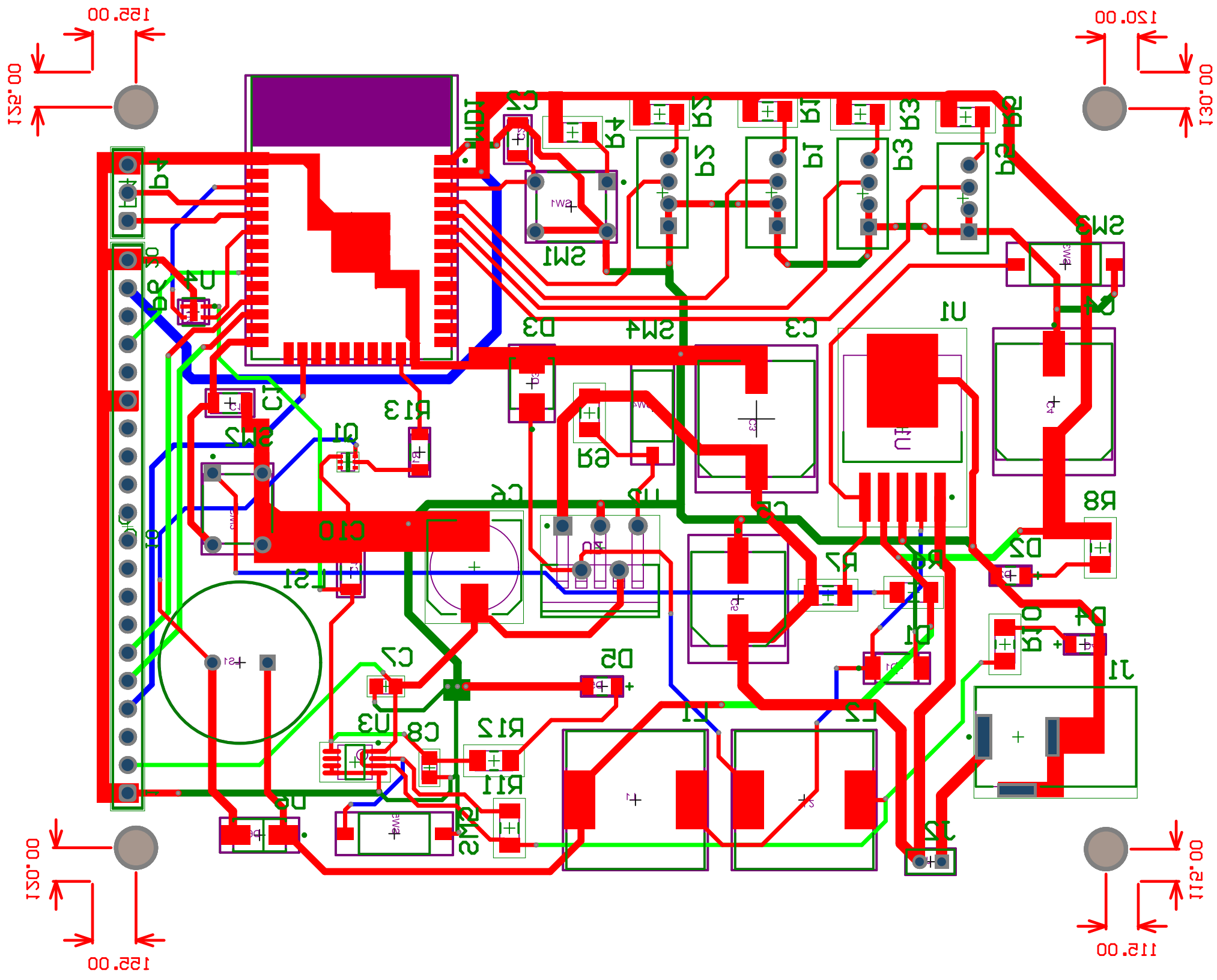
Title Block Diagram			
Size A4	Number 1		Revision
Date:	9/19/2024		Sheet of
File:	C:\Users\...\blockView.SchDoc		Drawn By: Navindu De Silva







Title <b>Sensors and Actuators</b>			
Size A4	Number 1.3		Revision
Date:	9/19/2024	Sheet of	
File:	C:\Users\...\Sensors_Actuators.SchDoc	Drawn By:	Navindu De Silva



Comment	Description	Designator	Footprint	LibRef	Quantity
CC1206KRX7R9BB104	CAP CER0.1UF 50V X7R 1206	C1, C2, C10	FP-CC1206-1_25-MFG	CMP-03422-000842-1	3
EEHZA1H101P	CAP ALUM POLYHYB 100UF 50V SMD	C3	FP-ZAG-MFG	CMP-2000-06221-2	1
EEEFK1V331AP	CAP ALUM 330UF 20% 35V SMD	C4	FP-FKG-MFG	CMP-05427-002115-1	1
470uF	Conductive Polymer Aluminum Solid Capacitors (OS-CON) 100uF ±20% 25V RADIAL SMT 8x6.9mm	C5	FP-OS-CON-SMT-E7-MFG	CMP-05428-000915-1	1
220uF	Aluminum Electrolytic Capacitor, UD Series, Low Impedance, 220 uF, 35 V, +/- 20%, -55 to 105 degC, Chip Type, 8 x 10 mm D x L, Pb-Free, Reel	C6	NIC-CAPA2-8X10_V	CMP-0687-00080-1	1
GRM21BF51C106ZE15L		C7, C8	CAPC2013X135X45NL10T25	CMP-2007-03514-1	2
CMS06(Te12L,Q,M)	DIODE SCHOTTKY 30V 2A MFLAT	D1	FP-M-FLAT-MFG	CMP-2000-06115-2	1
SML-LX1206GC-TR	LED GREEN CLEAR 1206 SMD	D2, D4	FP-SML-LX1206GC-TR-MFG	CMP-2000-07122-2	2
B240-13-F	DIODE SCHOTTKY 40V 2A SMB	D3	FP-SMB-MFG	CMP-12790-000044-1	1
SML-LX1206OW-TR	LED GREEN CLEAR 1206 SMD	D5	FP-SML-LX1206GC-TR-MFG	CMP-2000-07122-2	1
RS1M	DIODE GEN PURP 1KV 1A SMA	D6	FP-403AE-MFG	CMP-07163-000022-1	1
RAPC722X	Power Jack, 5 A, 3-Pin THD, RoHS, Bulk	J1	SMITCH-RAPC712X-3_V	CMP-2000-05384-1	1
M22-2510205	CONN HEADER VERT 2POS 2MM	J2	FP-M22-2510205-MFG	CMP-15831-000005-1	1
SRR1210-101M	FIXED IND 100UH 2.5A 135MOHM SMD	L1	FP-SRR1210-MFG	CMP-07248-000065-1	1
SRR1210-680M	FIXED IND 68UH 3A 102 MOHM SMD	L2	FP-SRR1210-MFG	CMP-07248-000002-1	1
PS1440P02BT	AUDIO PIEZO TRANSDUCER 30V TH	LS1	FP-PS1440P02BT-MFG	CMP-08413-000003-1	1
ESP32-WROOM-32D	WIFI MODULE 32MBITS SPI FLASH	MD1	FP-ESP32-WROOM-32D-MFG	CMP-194065-000003-1	1
B4B-PH-K-S(LF)(SN)	Male Header, Pitch 2 mm, 1 x 4 Position, Height 6 mm, Tail Length 3.4 mm, -25 to 85 degC, RoHS, Bulk	P1, P2, P3, P5	JST-B4B-PH-K-S_V	CMP-2000-05165-1	4
Program Header 61302011121		P4	61300311121	CMP-1502-01062-2	1
		P6	61302011121	CMP-1502-01102-2	1
BC847CDXV6T1G	Dual General Purpose Transistors, NPN, 6-Pin SOT-563, Pb-Free, Tape and Reel	Q1	ONSC-SOT-563-6-463A-01_V	CMP-1048-00902-1	1
CRCW12061K00FHEA	Chip Resistor, 1 KOhm, +/- 1%, 0.25 W, -55 to 155 degC, 1206 (3216 Metric), RoHS, Tape and Reel	R1, R2, R3, R4, R5, R6, R7, R8, R11	RESC3216X60X45ML15T20	CMP-2100-03616-1	9
2K		R8, R12	RESC3216X70X50ML20T25	CMP-2003-04435-1	2
3K		R10	RESC3216X70X50ML20T25	CMP-2003-04435-1	1
AC1206JR-07220RL	RES SMD 220 OHM 5% 1/4W 1206	R13	FP-AC1206-MFG	CMP-03412-036074-1	1
3-1825910-1	SWITCH TACTILE SPST-NO 0.05A 24V	SW1, SW2	FP-3-1825910-1-MFG	CMP-03407-000001-1	2
A6S-1104-H	SWITCH SLIDE DIP SPST 25MA 24V	SW3, SW4, SW5	FP-A6S-1104-H-MFG	CMP-08827-000005-1	3
LM2596S-3.3/NOPB	SIMPLE SWITCHER® Power Converter 150 KHz 3A Step-Down Voltage Regulator, 5-pin TO-263, Pb-Free	U1	KTT0005B_M	CMP-0069-00275-3	1
LM2596T-5/NOPB	SIMPLE SWITCHER® Power Converter 150 KHz 3A Step-Down Voltage Regulator, 5-pin TO-220, Pb-Free	U2	NDH0005A	CMP-0069-01925-3	1
LP2966IMM-1833/NOPB	Dual 150mA Ultra Low-Dropout Regulator, 8-pin Mini SOIC, Pb-Free	U3	MUA08A_N	CMP-0062-02215-2	1
SHTC1	SENSOR HUM/TBMP 1.8V I2C 3% SMD	U4	FP-SHTC1-MFG	CMP-2000-07052-2	1