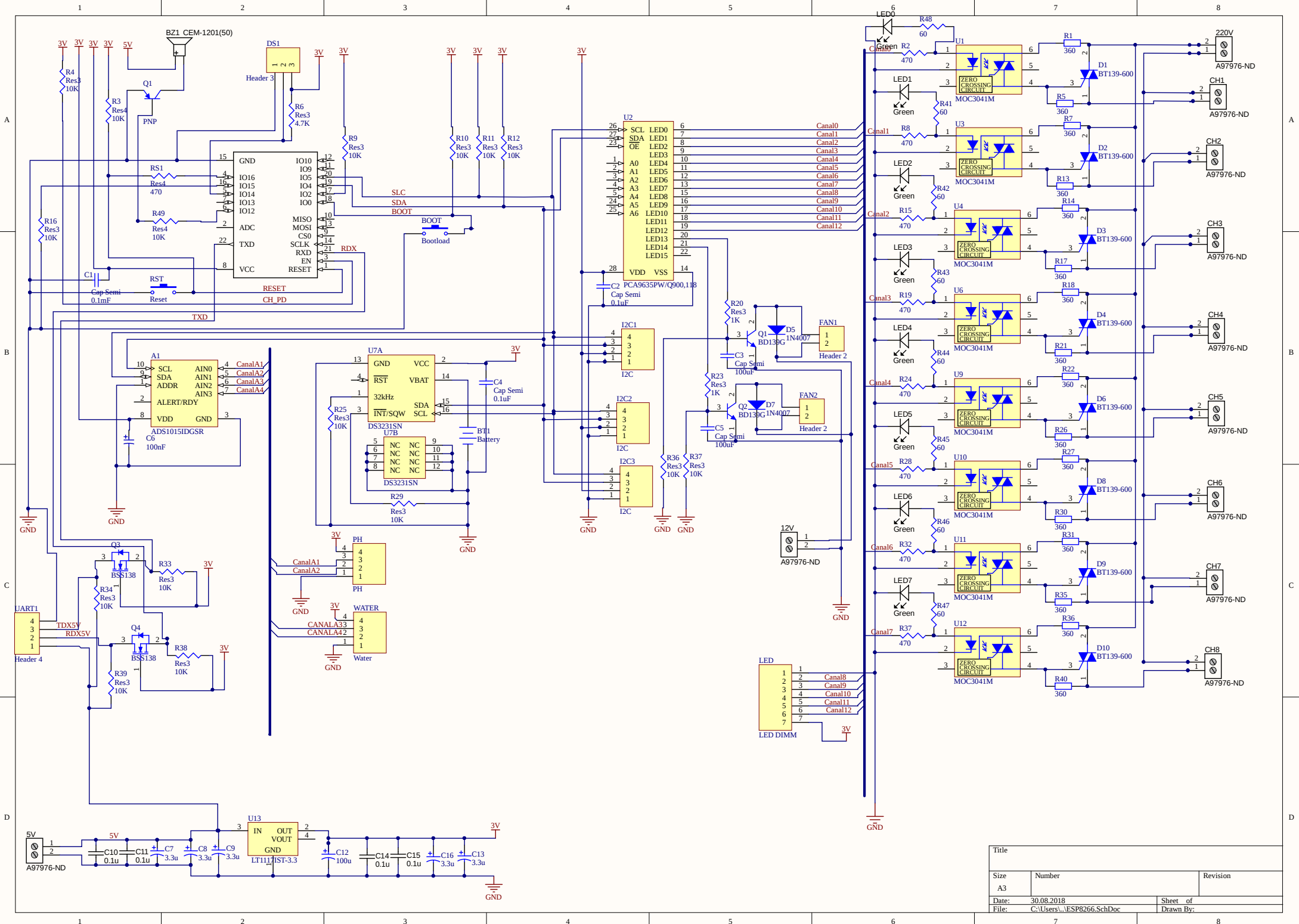
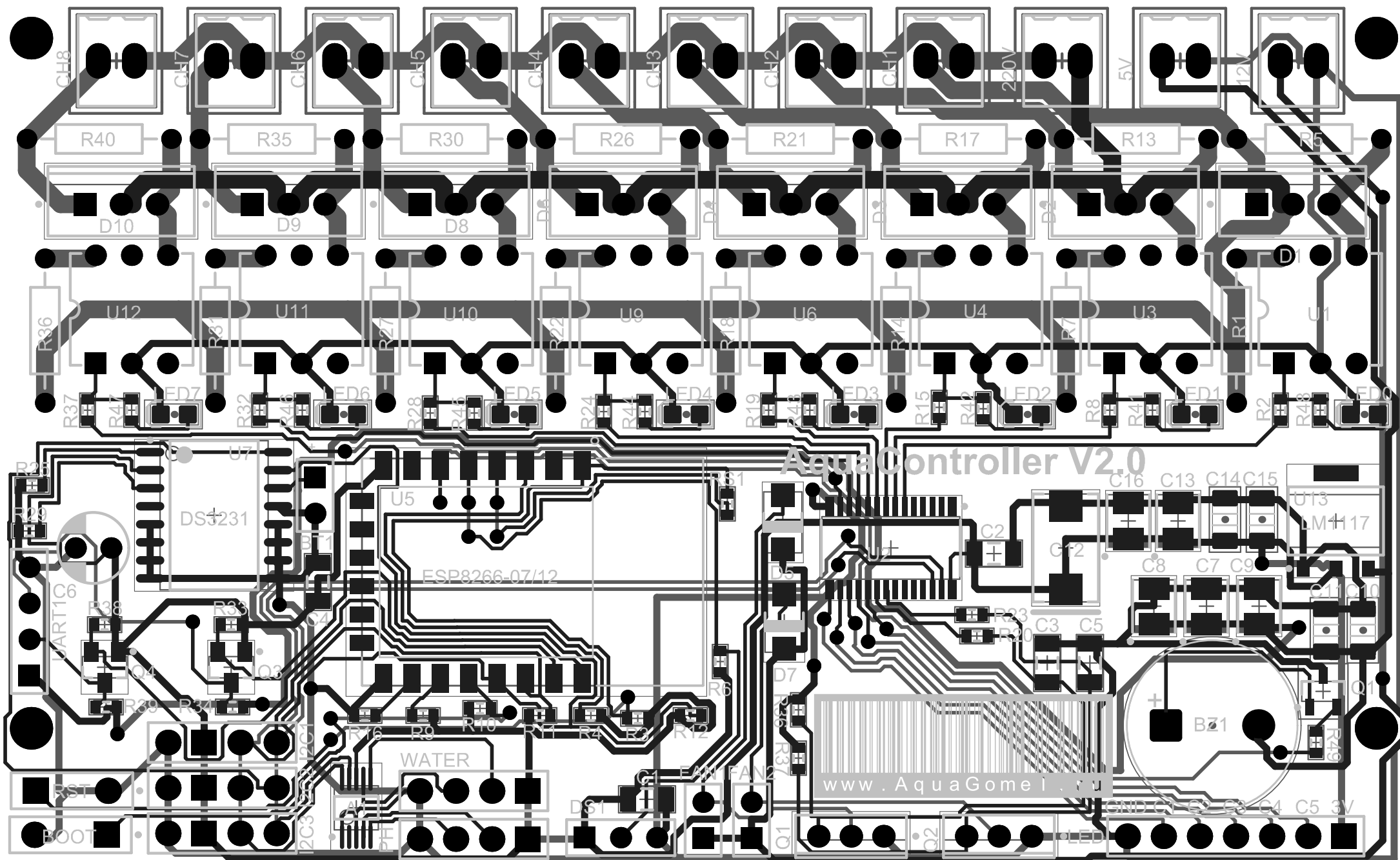




Title		
Size	Number	Revision
A3		
Date:	30.08.2018	Sheet of
File:	C:\Users\... \ESP8266.SchDoc	Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
Stackable ScrewTerm	Terminal Block Screw Type THT 2-Position 3.81mm pitch	5V, 12V, 220V, CH1, CH2, CH3, CH4, CH5, CH6, CH7, CH8	TE 282834-2	2P_ScrewTerm_90S_3.81 MM	11
ADS1015IDGSR	12-Bit ADC with Integrated Multiplexer, PGA, Comparator, Oscillator, and Reference, -40 to 125 degC, 10-pin SOP (DGS10), Green (RoHS & no Sb/Br)	A1	TI-DGS10_N	CMP-0003-00374-2	1
Bootload	Switch	BOOT	SPST-2	SW-PB	1
Battery	Multicell Battery	BT1	BAT-2	Battery	1
Alternate part: 3100- 932	Speaker, Magnetic Transducer	BZ1	BUZZER_12.0X8.5MM	BZ_12x8.5x6.5_2kHz	1
Cap Semi	Capacitor (Semiconductor SIM Model)	C1, C2, C3, C4, C5	C1206	Cap Semi	5
100nF	Capacitor, polarized, generic	C6	C Elec TH V 4x7-2.5	C Pol	1
3.3u	Tantalum Capacitor, 330 uF, +/- 20%, 2.5 V, - 55 to 105 degC, 2-Pin Molded, RoHS, Tape and Reel	C7, C8, C9, C13, C16	KEMT-520-B-2_L	CMP-1664-00002-2	5
0.1u	Capacitor SMD Cer 6.8nF 5% 50V NP0 1206	C10, C11, C14, C15	CAPC3216X180N	CAPC_6n8_1206_NP0_5 0V	4
100u	Capacitor, Tantalum, 100 uF, +/- 10%, -55 to 125 degC, 2-Pin SMD, RoHS, Tape and Reel	C12	KEMT-T491-D_L	CMP-1664-00011-1	1
BT139-600	Triacs, Silicon Bidirectional Thyristor, 3-Pin TO-220, Pb-Free, Tube	D1, D2, D3, D4, D6, D8, D9, D10	ONSC-TO-220-3-221A- 07	CMP-1070-00060-1	8
1N4007	1 A Rectifier Diode, 1000 V, -65 to 175 degC, 2-Pin DO-214AC	D5, D7	KESE-DO-214AC_V	CMP-0983-00001-1	2
Header 3	Header, 3-Pin	DS1	HDR1X3	Header 3	1
Header 2	Header, 2-Pin	FAN1, FAN2	HDR1X2	Header 2	2
I2C		I2C1, I2C2, I2C3	1x4x2.54 Pin Header TH V	Header 1x4	3
LED DIMM		LED	1x7x2.54 Pin Header TH V	Header 1x7	1
Green	LED 0805 SMD Green 12mcd 569nm	LED0, LED1, LED2, LED3, LED4, LED5, LED6, LED7	LED-0805-K	LED_SMD_Green_0805_ 12mcd	8
PH		PH	1x4x2.54 Pin Header TH V	Header 1x4	1
PNP	PNP Bipolar Transistor	Q1	SOT-23B_N	PNP	1
BD139G	Plastic Medium-Power Silicon NPN Transistor, 3-Pin TO-225, Pb-Free, Bulk Box	Q1, Q2	ONSC-TO-225-3-77-09	CMP-1048-01269-1	2
BSS138	N-Channel Logic Level Enhancement Mode Field Effect Transistor, 220 mA, 50 V, -55 to 150 degC, 3-Pin SOT- 23, RoHS, Tape and Reel	Q3, Q4	FAIR-SOT23-3_V	CMP-1670-00009-1	2
360	Resistor	R1, R5, R7, R13, R14, R17, R18, R21, R22, R26, R27, R30, R31, R35, R36, R40	AXIAL-0.4	Res2	16
470	Resistor	R2, R8, R15, R19, R24, R28, R32, R37	J1-0603	Res3	8
Res4	Resistor	R3, R49, RS1	J1-0603	Res3	3
Res3	Resistor	R4, R6, R9, R10, R11, R12, R16, R20, R23, R25, R29, R33, R34, R36, R37, R38, R39	J1-0603	Res3	17
60	Resistor	R41, R42, R43, R44, R45, R46, R47, R48	J1-0603	Res3	8
Reset	Switch	RST	SPST-2	SW-PB	1
MOC3041M	Triac & SCR Output Optocouplers DIP-6 ZERO TRIAC	U1, U3, U4, U6, U9, U10, U11, U12	PDIP6-300-W	MOC3041M	8
PCA9635PW/Q900.118	Fm+ I2C-Bus LED Driver with 126 I2C Address, 16Bits, 1000 kHz, 2.3 to 5.5 V, -40 to 85 degC, 28-Pin TSOP (SOT361- 1), RoHS, Reel	U2	SOT361-1_V	CMP-1268-00014-1	1
ESP8266-12E/ESP-12E	None	U5	XCVR_ESP8266-12E/ESP- 12E	ESP8266-12E/ESP-12E	1
D53231SN	Extremely Accurate I2C- Integrated Real-Time Clock/TCXO/Crystal, 16- Pin SO, -40 to 85 degC	U7	W16-H2_L	CMP-0254-00293-1	1
LT1117IST-3.3	0.8 A Low Dropout Positive Regulator, 2.45 to 15 V Vin, 3.3 V Vout, 3-pin SOT223 (ST-3), -40 to 125 degC	U13	LT-ST-3-SOT-223_L	CMP-0476-01824-1	1
Header 4	Header, 4-Pin	UART1	HDR1X4	Header 4	1
Water		WATER	1x4x2.54 Pin Header TH	Header 1x4	1