

Comment	Description	Designator	Footprint	LibRef	Quantity
0.1uF(25V)	0.1uF ±10% 25V Ceramic Capacitor X7R 0402 (1005 Metric)	C1, C2, C4, C5, C14, C15, C16	CAPACITOR_0402	GRM15SR71E104KE14 J	3
100nf(50V)	0.1uF ±10% 50V Ceramic Capacitor X7R 0805 (2012 Metric)	C3	Capacitor_0805	CL21B104KBF30PE	1
4.7uF(16V)	4.7uF ±20% 16V Ceramic Capacitor X5R 0402 (1005 Metric)	C6, C7, C8, C9	CAPACITOR_0402	0402YD475MAT2A	4
10uF(10V)	10uF ±20% 10V Ceramic Capacitor X5R 0402 (1005 Metric)	C10, C12	CAPACITOR_0402	CL05A106M#8NULB8	2
2.2uF(25V)	2.2 uF ±10% 25V Ceramic Capacitor X5R 0402 (1005 Metric)	C11, C13	CAPACITOR_0402	GRT155R61E225KE13D	2
0.01uF(25V)	10000pF ±5% 25V Ceramic Capacitor X7R 0402 (1005 Metric)	C17	CAPACITOR_0402	C0402C103J3RACTU	1
LED GREEN	Green 50nm LED Indication - Discrete 2.1V 0603 (1608 Metric)	D1, D2	0603_LED	XZVGS3W-8	2
BAV70LT1G	Diode Array 1 Pair Common Cathode Standard 200mA (DC) Surface Mount TO- 236-3, SC-59, SOT-23- 3	D3	SOT-23_3LEAD- BAV70	BAV70LT1G	1
1x2 Test Pad		J1	dual test pad 1.27	1x2Test Pad	1
PEC02SAAN	Connector Header Through Hole 2 position 0.100" (2.54mm)	J2	P2.541X2HDR	PEC02SAAN	1
MicroUSB	USB - micro B USB 2.0 Receptacle Connector 5 Position Surface Mount, Right Angle Through Hole	J3	Micro USB	629105150521	1
BAT	Connector Header Surface Mount, Right Angle 2 position 0.039" (1.00mm)	J4	SM02B-SRSS- TB(LF)(SN)	SM02B-SRSS- TB(LF)(SN)	1
FDV304P	P-Channel 460mA (Ta) 350mW (Ta) Surface Mount SOT- 23	Q1	SOT-23_3LEAD	FDV304P	1
0R	Jumper 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) Anti-Sulfur, Automotive AEC- Q200, Moisture Resistant Thick Film	R1, R11, R12, R13, R14	RESISTOR_0402	GR0402AJ/-000GAS	5
12K	±5% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Automotive AEC- Q200 Thick Film	R2, R3, R4, R5	RESISTOR_0402	ERJ-2GEJ123X	4
330R	±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC- Q200, Moisture Resistant Thick Film	R6, R9	RESISTOR_0402	GRCG0603I330R	2
2.2K	2.2 kOhms ±5% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Automotive AEC- Q200 Thick Film	R7, R8	RESISTOR_0402	ERJ-2GEJ222X	2
3.3K(1%)	3.3 ±1% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Automotive AEC- Q200, Moisture Resistant Thick Film	R10	RESISTOR_0402	RK73H1ETTP3301F	1
150K	150 kOhms ±5% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Automotive AEC- Q200 Thick Film	R15	RESISTOR_0402	ERJ-2GEJ154X	1
100K	100 kOhms ±5% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Automotive AEC- Q200 Thick Film	R16, R19, R20	RESISTOR_0402	ERJ-2GEJ104X	3
47K	47 kOhms ±5% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Anti-Sulfur, Automotive AEC- Q200 Thick Film	R17	RESISTOR_0402	ERJ-U02J473X	1
10K(0402 in)	10 kOhms ±5% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Anti-Sulfur, Automotive AEC- Q200 Thick Film	R18, R21, R22, R23	RESISTOR_0402	ERJ-U02J103X	4
Switch	Tactile Switch SPST- NO Top Actuated Surface Mount	SW1	Switch_2Lead	PTS636 SK50 SMTR LFS	1
I2C_OLED		U1	I28x32 OLED	I2COLED	1
ESP8266 12E		U2	ESP8266 12F	ESP8266 12E	1
MCP73831	Charger IC Lithium Ion/Polymer 8-DFN (2x3)	U3	8VDFN	MCP73831T-2DCI/MC	1
MAX30102 MOD		U4	MAX30102 MODULE	MAX30102 MOD	1
3.3V	LDO Voltage Regulators Ultra Low Iq LDO	U5	SOT23-SLEAD	MCP1812BT-033/OT	1