

Item	Qty	Reference(s)	Value	LibPart	Footprint
1	25	C1, C2, C3, C4, C5, C6, C7, C11, C12, C15, C18, C19, C20, C21, C22, C23, C25, C26, C27, C28, C29, C30, C32, C36, C39	0.1uF	Device:C	Capacitor_SMD:C_01005_0402Metric
2	2	C8, C9	10uF	Device:C	Capacitor_SMD:C_01005_0402Metric
3	7	C10, C13, C14, C24, C31, C37, C38	1uF	Device:C	Capacitor_SMD:C_01005_0402Metric
4	2	C16, C17	15pF	Device:C	Capacitor_SMD:C_01005_0402Metric
5	1	C33	1nF/2kV	Device:C	Capacitor_SMD:C_1206_3216Metric
6	2	C34, C35	18pF	Device:C	Capacitor_SMD:C_01005_0402Metric
7	2	D1, D2	BAT60A	Diode:BAT60A	Diode_SMD:D_SOD-323
8	1	D3	LED	Device:LED	HPT:LED
9	1	D4	WS2812B	LED:WS2812B	LED_SMD:LED_WS2812B_PLCC4_5.0x5.0mm_P3.2mm
10	3	D5, D6, D7	ESD9B3.3ST5G	Diode:ESD9B3.3ST5G	Diode_SMD:D_SOD-923
11	1	J1	USB_B_Micro	Connector:USB_B_Micro	Connector_USB:USB_Micro-B_Amphenol_10118194_Horizontal
12	1	J2	Ethernet_(100_Base-T_&_PoE+)	HPT:Ethernet_(100_Base-T_&_PoE+)	HPT:PoE, 10 Pin with LED
13	2	J3, J4	Conn_01x04	Connector_Generic:Conn_01x04	Connector_PinHeader_2.54mm:PinHeader_1x04_P2.54mm_Vertical
14	1	J5	Display	Connector_Generic:Conn_01x04	Connector_PinHeader_2.54mm:PinHeader_1x04_P2.54mm_Vertical
15	1	J6	Conn_01x03	Connector_Generic:Conn_01x03	Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Vertical
16	3	L1, L2, L3	120r@100MHz	Device:L	Inductor_SMD:L_0402_1005Metric
17	1	MOD1	Adafruit_3847_connector	HPT:Adafruit_3847_connector	HPT:Adafruit 3847 connector
18	1	Q1	2N7002	Transistor_FET:2N7002	Package_TO_SOT_SMD:SOT-23
19	3	R1, R18, R21	470R	Device:R	Resistor_SMD:R_01005_0402Metric
20	4	R2, R3, R8, R10	DNP	Device:R	Resistor_SMD:R_01005_0402Metric
21	2	R4, R5	27R	Device:R	Resistor_SMD:R_01005_0402Metric
22	1	R6	200k	Device:R	Resistor_SMD:R_01005_0402Metric
23	1	R7	100k	Device:R	Resistor_SMD:R_01005_0402Metric
24	2	R9, R11	1k	Device:R	Resistor_SMD:R_01005_0402Metric
25	4	R12, R13, R14, R15	49R9	Device:R	Resistor_SMD:R_01005_0402Metric
26	1	R16	4k7	Device:R	Resistor_SMD:R_01005_0402Metric
27	4	R17, R19, R20, R22	3R3	Device:R	Resistor_SMD:R_01005_0402Metric
28	1	R23	12K/1%	Device:R	Resistor_SMD:R_01005_0402Metric
29	1	R24	300R/1%	Device:R	Resistor_SMD:R_01005_0402Metric
30	1	R25	1M	Device:R	Resistor_SMD:R_01005_0402Metric
31	1	R26	0R	Device:R	Resistor_SMD:R_01005_0402Metric
32	1	R27	4R7	Device:R	Resistor_SMD:R_0402_1005Metric
33	3	R28, R29, R30	100R	Device:R	Resistor_SMD:R_01005_0402Metric
34	1	SW1	BOOTSEL	Switch:SW_Push	HPT:Switch
35	1	SW2	RESET	Switch:SW_Push	HPT:Switch
36	1	SW3	Display	Switch:SW_Push	HPT:Switch
37	1	U1	NCP1117-3.3_TO252	Regulator_Linear:NCP1117-3.3_TO252	Package_TO_SOT_SMD:TO-252-2
38	1	U2	USB6B1	Power_Protection:USB6B1	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm
39	1	U3	RP2040	MCU_RaspberryPi:RP2040	Package_DFN_QFN:QFN-56-1EP_7x7mm_P0.4mm_EP3.2x3.2mm
40	1	U4	W25Q128JVS	Memory_Flash:W25Q128JVS	Package_SO:SOIC-8_5.23x5.23mm_P1.27mm
41	1	U5	W5100S	HPT:W5100S	HPT:LQFP48
42	1	U6	SGP41	HPT:SGP41	HPT:SGP41
43	1	U7	SHT4x	HPT:SHT4x	HPT:SHT4x
44	1	Y1	12MHz	HPT:Crystal	Crystal:Crystal_SMD_Abracon_ABM8G-4Pin_3.2x2.5mm
45	1	Y2	25MHz	HPT:Crystal	Crystal:Crystal_SMD_Abracon_ABM8G-4Pin_3.2x2.5mm