

Item #	Quantity	Reference	Description	Part	Manufacturer	P/N	Unit Price	Link
1	2	C2, C3	Electrolytic capacitor	100µF electrolytic capacitor	Nichicon	UKVH150M010TD	0.27	<a href="https://www.digikey.ca/en/products/detail/nichicon/UKVH150M010TD/4286770">https://www.digikey.ca/en/products/detail/nichicon/UKVH150M010TD/4286770</a>
2	2	C4, C5	Ceramic capacitor	1000pF ceramic capacitor	Vishay Beyschlag/Draloric/BC Components	K104K15X78PSTL2	0.19	<a href="https://www.digikey.ca/en/products/detail/vishay-beyschlag-draloric-bc-components/K104K15X78PSTL2/286538">https://www.digikey.ca/en/products/detail/vishay-beyschlag-draloric-bc-components/K104K15X78PSTL2/286538</a>
3	2	C6, C7	Ceramic capacitor	220pF ceramic capacitor	Vishay Beyschlag/Draloric/BC Components	K22015SC02PSTL2	0.25	<a href="https://www.digikey.ca/en/products/detail/vishay-beyschlag-draloric-bc-components/K22015SC02PSTL2/286459">https://www.digikey.ca/en/products/detail/vishay-beyschlag-draloric-bc-components/K22015SC02PSTL2/286459</a>
4	6	R1, R15, R18, R21, R24, R9	Resistor	220 Ohm resistor	Stackpole electronics	RNMF147C220R	0.06	<a href="https://www.digikey.ca/en/products/detail/stackpole-electronics-inc/RNMF147C220R/2617314">https://www.digikey.ca/en/products/detail/stackpole-electronics-inc/RNMF147C220R/2617314</a>
5	8	R11, R14, R17, R20, R23, R26, R6, R8	Resistor	330 Ohm resistor	Stackpole electronics	RNMF147C330R	0.06	<a href="https://www.digikey.ca/en/products/detail/stackpole-electronics-inc/RNMF147C330R/2617332">https://www.digikey.ca/en/products/detail/stackpole-electronics-inc/RNMF147C330R/2617332</a>
6	11	R1, R10, R12, R16, R19, R2, R22, R25, R3, R4, R5	Resistor	150k Ohm resistor	Stackpole electronics	RNMF147C150K	0.06	<a href="https://www.digikey.ca/en/products/detail/stackpole-electronics-inc/RNMF147C150K/2609330">https://www.digikey.ca/en/products/detail/stackpole-electronics-inc/RNMF147C150K/2609330</a>
7	1	R7	Resistor	160 Ohm resistor	Stackpole electronics	RNMF147C160R	0.06	<a href="https://www.digikey.ca/en/products/detail/stackpole-electronics-inc/RNMF147C160R/2617295">https://www.digikey.ca/en/products/detail/stackpole-electronics-inc/RNMF147C160R/2617295</a>
8	6	OC, CYCLE_START, OC_FEED_HOLD, OC_GBBL_RESET, OC_LIMIT_X_AXIS, OC_LIMIT_Y_AXIS, OC_LIMIT_Z_AXIS	Octocoupler	Octocoupler	Life-on Inc.	LV-847	0.26	<a href="https://www.digikey.ca/en/products/detail/life-on-inc/LV-847/385836">https://www.digikey.ca/en/products/detail/life-on-inc/LV-847/385836</a>
9	4	N/A	Screw terminal	4-pin screw terminal	TE Connectivity AMP Connectors	2828M-4	3.37	<a href="https://www.digikey.ca/en/products/detail/te-connectivity-amp-connectors/2828M-4/1153265">https://www.digikey.ca/en/products/detail/te-connectivity-amp-connectors/2828M-4/1153265</a>
10	6	N/A	Screw terminal	2-pin screw terminal	TE Connectivity AMP Connectors	2828M-2	1.89	<a href="https://www.digikey.ca/en/products/detail/te-connectivity-amp-connectors/2828M-2/1150135">https://www.digikey.ca/en/products/detail/te-connectivity-amp-connectors/2828M-2/1150135</a>
11	1	N/A	Regulator	40-pin Raspberry Pi GPIO Header	TE Connectivity AMP Connectors	5313308-8	4.42	<a href="https://www.digikey.ca/en/products/detail/te-connectivity-amp-connectors/5313308-8/1149588">https://www.digikey.ca/en/products/detail/te-connectivity-amp-connectors/5313308-8/1149588</a>
12	3	LED-SV, LED-3-IV, LED_CYCLE_START	LED	5mm green LED	Fairchild	MV6453D	0.39	<a href="https://www.digikey.ca/en/products/detail/everlight-electronics-co-hk/MV6453D/26175619">https://www.digikey.ca/en/products/detail/everlight-electronics-co-hk/MV6453D/26175619</a>
13	2	LED-MOT_YN, LED-G_RESET	LED	5mm red LED	Fairchild	MV6451	0.3	<a href="https://www.digikey.ca/en/products/detail/everlight-electronics-co-hk/MV6451/26175623">https://www.digikey.ca/en/products/detail/everlight-electronics-co-hk/MV6451/26175623</a>
14	3	LED-LIMIT_X, LED-LIMIT_Y, LED-LIMIT_Z	LED	5mm yellow LED	Fairchild	MV6554A	0.39	<a href="https://www.digikey.ca/en/products/detail/everlight-electronics-co-hk/MV6554A/26175596">https://www.digikey.ca/en/products/detail/everlight-electronics-co-hk/MV6554A/26175596</a>
15	1	LED_FEED_HOLD	LED	5mm orange LED	Knightlight	WPT113ND	0.36	<a href="https://www.digikey.ca/en/products/detail/knightlight/WPT113ND/3384231">https://www.digikey.ca/en/products/detail/knightlight/WPT113ND/3384231</a>
16	2	2N7000	N-channel MOSFET	2N7000 MOSFET	ON semi	2N7000	0.79	<a href="https://cds.linear-electronics.com/ics-semiconductors/freescale/2n7000-n-channel-mosfet-spn-02a-40v-2n7000.html">https://cds.linear-electronics.com/ics-semiconductors/freescale/2n7000-n-channel-mosfet-spn-02a-40v-2n7000.html</a>
17	1	XS16MHz	Crystal oscillator	16MHz crystal oscillator	IQD Frequency Products	LFXTAL027948BULK	0.7	<a href="https://www.digikey.ca/en/products/detail/iqd-frequency-products/LFXTAL027948BULK/10106022">https://www.digikey.ca/en/products/detail/iqd-frequency-products/LFXTAL027948BULK/10106022</a>
18	1	PB	Pushbutton	Pushbutton	N/A	N/A	0.6	<a href="https://cds.linear-electronics.com/electromechanical/switches/tactile-switches/pb-131p-yellow-breadboard-friendly-momentary-pushbutton-switch-clone.html">https://cds.linear-electronics.com/electromechanical/switches/tactile-switches/pb-131p-yellow-breadboard-friendly-momentary-pushbutton-switch-clone.html</a>
19	2	S0158150, S02-08150	Schottky diode	58150 schottky diode	Vishay General Semiconductor - Diodes Division	58150-E3/54	0.43	<a href="https://www.digikey.ca/en/products/detail/vishay-general-semiconductor-diodes-division/58150-E3-54/604911">https://www.digikey.ca/en/products/detail/vishay-general-semiconductor-diodes-division/58150-E3-54/604911</a>
20	1	ATMEGA328P	8-bit CMOS MCU	ATMEGA328P	ATMEL	ATMEGA328P	16.95	<a href="https://atmel-electronics.com/ics-semiconductors/microcontrollers-atmel/atmega328p-pu-8-bit-microcontroller-avr-with-32k-in-system-programmable-flash-28-pin-sop-package-atmega328p-pu.html">https://atmel-electronics.com/ics-semiconductors/microcontrollers-atmel/atmega328p-pu-8-bit-microcontroller-avr-with-32k-in-system-programmable-flash-28-pin-sop-package-atmega328p-pu.html</a>