

Bill of Materials

Part Name/Description	Unit Quantity	Unit Prototype Cost	Total Prototype Cost	Unit Production Cost	Total Production Cost	Manufacturer	Manufacturer Part #	Vendor Link	Datasheet Link	Supplier	Supplier Part #	# Ordered	Date Ordered	# Received	Surplus	Schematic Reference Designators
750 mA fuse	1	\$0.92	\$0.92	\$0.34	\$0.34	Bel Fuse Inc.	3SB 750-R	Vendor Link	Datasheet Link	Peralta 109	N/A	0	N/A	N/A	N/A	F1
SNAP Programmer	1	\$15.30	\$15.30	\$15.30	\$15.30	Microchip	PG164100	Vendor Link	Datasheet Link	Microchip	PG164100	0	N/A	N/A	N/A	J2
Microchip PIC18F47Q10-I/PT Microcontroller	1	\$1.49	\$1.49	\$1.45	\$1.45	Microchip	PIC18F47Q10-I/PT-ND	Vendor Link	Datasheet Link	Digikey	PIC18F47Q10-I/PT-ND	3				U1
LM2575 Switching Voltage Regulator	1	\$1.75	\$1.75	\$1.33	\$1.33	Microchip	LM2575-3.3WU	Vendor Link	Datasheet Link	Digikey	150-LM2575-3.3WU-TRCT-ND	3				U2
Colorful Tactile button pack	1	\$6.50	\$6.50	\$6.50	\$6.50	SparkFun	COM-10302	Vendor Link	Datasheet Link	Digikey	1568-1332-ND	1				S1, S2, S3
10k Ohm 1 Gang Linear Surface Mount Potentiometer	1	\$1.72	\$1.72	\$0.94	\$0.94	Alps Alpine	RK09K1130AP5	Vendor Link	Datasheet Link	Digikey	4809-RK09K1130AP5-ND	2				R6
10 kOhms ±5% 0.063W, 1/16W Chip Resistor	3	\$0.01	\$0.02	\$0.00	\$0.01	YAGEO	RC0402JR-0710	Vendor Link	Datasheet Link	Digikey	311-10KJRCT-ND	10				R1, R10, R11
1 kOhms ±5% 0.063W, 1/16W Chip Resistor	5	\$0.01	\$0.04	\$0.00	\$0.02	YAGEO	RC0402JR-0710	Vendor Link	Datasheet Link	Digikey	311-1.0KJRCT-ND	10				R4, R5, R7, R8, R9
330 Ohms ±5% 0.1W, 1/10W Chip Resistor	1	\$0.01	\$0.01	\$0.00	\$0.00	YAGEO	RC0603JR-0730	Vendor Link	Datasheet Link	Digikey	311-330GRCT-ND	10				R3
CAP ALUM 100UF 20% 50V SMD	1	\$0.72	\$0.72	\$0.35	\$0.35	Nichicon	EEE-1HA101UA	Vendor Link	Datasheet Link	Digikey	PCE4610CT-ND	3				C1
CAP ALUM 330UF 20% 50V SMD	1	\$1.18	\$1.18	\$0.59	\$0.59	Nichicon	UCM1H331MNL	Vendor Link	Datasheet Link	Digikey	493-14535-1-ND	3				C2
CAP ALUM 0.1UF 20% 50V SMD	3	\$0.63	\$1.89	\$0.23	\$0.69	Nichicon	UWP1H0R1MCI	Vendor Link	Datasheet Link	Digikey	493-9826-1-ND	9				C3,C4,C5
LED GREEN CLEAR CHIP SMD	1	\$0.14	\$0.14	\$0.04	\$0.04	Lite-On Inc.	LTST-C190GKT	Vendor Link	Datasheet Link	Digikey	160-1183-1-ND	3				D2
LED RED CLEAR CHIP SMD	1	\$0.14	\$0.14	\$0.04	\$0.04	Lite-On Inc.	LTST-C190KRK	Vendor Link	Datasheet Link	Digikey	160-1436-1-ND	3				D3
DIODE SCHOTTKY 40V 1A SOD123	1	\$0.25	\$0.25	\$0.08	\$0.08	Diodes Incorporated	1N5819HW-7-F	Vendor Link	Datasheet Link	Digikey	1N5819HW-FDICT-ND	3				D1
Teyliten 0.96 inch LCD OLED Display	1	\$2.58	\$2.58	\$2.57	\$2.57	Teyliten	SSD1306	Vendor Link	Datasheet Link	Amazon	B0CN373JF4	0	N/A	N/A	N/A	J4