

Part Name/Description	Qty	Unit Cost	Total Cost	Manufacturer	Manufacturer Part #	Vendor Link	Datasheet Link	Supplier	Supplier Part #	Schmatic Reference Designators
.33uF ceramic capacitor	4	\$0.07	\$ 0.28	ALLECIN	N/A	Amazon link	N/A	Amazon	B0DFQCTCGS	C1
.1uF(100nF) ceramic capacitor	12	\$0.24	\$ 2.88	Vishay Beyschlag/Draloric/BC Components	K104K10X7RF5UH5	https://www.digikey.com/en/products/detail/vishay-beyschlag-draloric/K104K10X7RF5UH5	https://www.vishay.com/docs/45171/kseries.pdf	DigiKey	BC2665CT-ND	C2,C5,C7, C6
1nF capacitor (1000 pF)	6	\$1.67	\$ 10.02	Vishay Cera-Mite	561R1DF0D10	https://www.digikey.com/en/products/detail/vishay-cera-mite/561R1DF0D10	https://www.vishay.com/docs/23115/561r564r.pdf	DigiKey	561R1DF0D10-ND	C3,C4
0.47uF capacitor	6	\$0.30	\$ 1.80	TDK Corporation	FG14X7R1E474KNT06	https://www.digikey.com/en/products/detail/tdk-corporation/FG14X7R1E474KNT06	https://product.tdk.com/en/system/files/dam/doc/prod	DigiKey	FG14X7R1E474KNT06	C8
RED LED	6	\$0.07	\$ 0.42	CHANZON	100F5W-YT-RE-SHAN	Amazon link	N/A	Amazon	B0895T2ZY6	D1
3A Fuse	3	\$1.29	\$ 3.87	OptiFuse	TXG-3A	https://www.digikey.com/en/products/detail/optifuse/TXG-3A/12171	https://www.optifuse.com/optifuse_ecommerce_tools/	DigiKey	TXG-3A	F1
Barrel_Jack_Switch	3	\$0.76	\$ 2.28	Same Sky (Formerly CUI Devices)	PJ-102AH	https://www.digikey.com/en/products/detail/cui-devices/PJ-102AH/	https://www.sameskydevices.com/product/resource/pj/	DigiKey	CP-102AH-ND	J1
PIC18F57Q43	1	\$9.99	\$ 9.99	Microchip	DM164150	https://www.microchip.com/en-us/development-tool/DM164150	PIC Datasheet	Microchip	DM164150	N1
MCP6004	2	\$0.59	\$ 1.18	Microchip	MCP6004-I/P	https://www.digikey.com/en/products/detail/microchip-technology/MCP6004-I/P	https://embedded-systems-	DigiKey	MCP6004-I/P-ND	O1
100 Ω Resistor	8	\$0.10	\$ 0.80	YAGEO	CFR-25JB-52-100R	https://www.digikey.com/en/products/detail/yageo/CFR-25JB-52-100R	https://www.yageogroup.com/content/Resource%20I	DigiKey	CFR-25JB-52-100R	R1,R2
330 Ω Resistor	4	\$0.03	\$ 0.11	Lumimax Optoelectronic Technology	MF1/4W330RFT	https://www.digikey.com/en/products/detail/lumimax-optoelectronic/MF1/4W330RFT	https://mm.digikey.com/Volume0/opasdata/d220001/	DigiKey	MF1/4W330RFT	R5
10KΩ Resistor	4	\$0.10	\$ 0.40	YAGEO	CFR-25JB-52-10K	https://www.digikey.com/en/products/detail/yageo/CFR-25JB-52-10K	https://www.yageogroup.com/content/Resource%20I	DigiKey	CFR-25JB-52-10K	R6
SHT31-ARP-B	4	\$4.32	\$ 17.28	Sensirion AG	SHT31-ARP-B	Digikey link	https://sensirion.com/media/documents/EAB47515/63	DigiKey	1649-1012-1-ND	SHT1
SW_DPST_CGE	4	\$0.13	\$ 0.52	TE Connectivity ALCOSWITCH Switches	450-1650-ND	https://www.digikey.com/en/products/detail/te-connectivity-alcoswitch/450-1650-ND	Pushbutton Datasheet	DigiKey	450-1650-ND	SW1
Test Points	40	\$0.39	\$ 15.60	Keystone Electronics	5000	https://www.digikey.com/en/products/detail/keystone-electronics/5000	https://www.keyelco.com/userAssets/file/M65p56.pdf	DigiKey	36-5000-ND	TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TP10,TP11,TP12,TP13,TP14,TP15,TP16,TP17,TP18,TP19
LM7805	4	\$0.33	\$ 1.33	TAEJIN	LM7805T	https://www.digikey.com/en/products/detail/taejin/LM7805T/222372	https://www.htckorea.co.kr/Datasheet/Voltage%20Reg	DigiKey	5536-LM7805T-ND	U1
01X02 female header	8	\$0.24	\$ 1.92	Sullins Connector Solutions	PPTC021LFBN-RC	https://www.digikey.com/en/products/detail/sullins-connector-solutions/PPTC021LFBN-RC	https://mm.digikey.com/Volume0/opasdata/d220001/	DigiKey	S7000-ND	
01X03 female header	4	\$0.30	\$ 1.20	Sullins Connector Solutions	PPTC031LFBN-RC	https://www.digikey.com/en/products/detail/sullins-connector-solutions/PPTC031LFBN-RC	https://mm.digikey.com/Volume0/opasdata/d220001/	DigiKey	S7001-ND	
9V, 3A Plug-in Power Supply	1	\$4.52	\$ 4.52	BestCH	0930	https://www.amazon.com/gp/product/B097TKTLGW/	N/A	Amazon	B097TKTLGW	*Not on Schematic- External Power