

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	OEM	OEM PART NUMBER	VENDOR1	VENDOR1 PART NUMBER	V1 COST	V1 PER	V1 ITEM COST	VENDOR 1 COST	VENDOR2	VENDOR2 PART NUMBER	V2 COST	V2 PER	V2 ITEM COST	VENDOR 2 COST	
10	TOOLERATOR 3000 PCB	TOOLERATOR 3000 BARE PCB	1					\$ 41.00	10	\$ 4.10	\$ 4.10			\$ 41.00	10	\$ 4.10	\$ 4.10	
20	ARDUINO NANO	arduino nano	1	ARDUINO	A000005	MOUSER	992-ARD-NANO30	\$ 30.61	1	\$ 30.61	\$ 30.61	MOUSER	992-ARD-NANO30	\$ 30.61	1	\$ 30.61	\$ 30.61	
30	15 PORT HEADER	15 Position Header Connector 0.100" (2.54mm) Through Hole Tin	2	Sullins Connector Solutions	PPTC151LFBN-RC	DIGI-KEY	S7013-ND	\$ 10.13	10	\$ 1.01	\$ 2.03	MOUSER, GRAVITECH	992-15FX1-254MM	\$ 10.50	10	\$ 1.05	\$ 2.10	
40	SWITCH	SWITCH TACTILE SPST-NO 0.05A 24V 6x6x5mm	2	TE Connectivity Alcoswitch Switches	1825910-6	DIGI-KEY	450-1650-ND	\$ 0.11	1	\$ 0.11	\$ 0.22	DIGI-KEY	450-1650-ND	\$ 0.11	1	\$ 0.11	\$ 0.22	
50	2 Position Terminal Block Header	2 Position Terminal Block Header, Male Pins, Shrouded (4 Side) 0.200" (5.08mm) 90°, Right Angle Through Hole	3	PHOENIX CONTACT	1757242	DIGI-KEY	277-1106-ND	\$ 5.63	10	\$ 0.56	\$ 1.69	MOUSER	651-1757242	\$ 5.50	10	\$ 0.55	\$ 1.65	
60	6 Position Terminal Block Header	6 Position Terminal Block Header, Male Pins, Shrouded (4 Side) 0.200" (5.08mm) 90°, Right Angle Through Hole	1	PHOENIX CONTACT	1757284	DIGI-KEY	277-1110-ND	\$ 16.61	10	\$ 1.66	\$ 1.66	MOUSER	651-1757284	\$ 16.20	10	\$ 1.62	\$ 1.62	
70	6 Position Terminal Block Plug	6 Position Terminal Block Plug, Female Sockets 0.200" (5.08mm) 180° Free Hanging (In-Line)	1	PHOENIX CONTACT	1757051	DIGI-KEY	277-1015-ND	\$ 48.90	10	\$ 4.89	\$ 4.89	MOUSER	651-1757051	\$ 48.90	10	\$ 4.89	\$ 4.89	
80	2 Position Terminal Block Plug	2 Position Terminal Block Plug, Female Sockets 0.200" (5.08mm) 180° Free Hanging (In-Line)	3	PHOENIX CONTACT	1757019	DIGI-KEY	277-1011-ND	\$ 16.83	10	\$ 1.68	\$ 5.05	MOUSER	651-1757019	\$ 16.60	10	\$ 1.66	\$ 4.98	
90	LED 5mm	LED GREEN CLEAR 5MM ROUND T/H	2	KINGBRIGHT	WP7113CGCK	DIGI-KEY	754-1262-ND	\$ 3.15	10	\$ 0.32	\$ 0.63	MOUSER	604-WP7113CGCK	\$ 1.11	10	\$ 0.11	\$ 0.22	
100	User Library-DIP4-7_62-2_54	OPTOISOLATOR 5KV TRANSISTOR 4DIP	4	Sharp Microelectronics	PC817XNNSZ0F	DIGI-KEY	425-2857-ND	\$ 8.78	25	\$ 0.35	\$ 1.40	MOUSER	852-PC817XNNSZ0	\$ 8.25	25	\$ 0.33	\$ 1.32	
		Transistor Output Optocouplers 50-600CTR 5000Vrms -55 to +110 Op Temp		Everlight	EL817-G	MOUSER	638-EL817G	\$ 3.05	10	\$ 0.31								
110	LMD18245T-NOPB	IC MOTOR DRIVER PAR TO220-15	1	Texas Instruments	LMD18245T/NOPB	DIGI-KEY	LMD18245T/NOPB-ND	\$ 17.29	1	\$ 17.29	\$ 17.29	MOUSER	926-LMD18245T/NOPB	\$ 17.29	1	\$ 17.29	\$ 17.29	
120	R1	RESISTOR, 0.25 W, 0.4 IN LEAD PITCH RES 220 OHM 1/4W 5% AXIAL	1	YAGEO	CFR-25JB-52-220R	DIGI-KEY	220QBK-ND	\$ 0.61	10	\$ 0.06	\$ 0.06	MOUSER	603-CFR-25JB-52-220R	\$ 1.00	10	\$ 0.10	\$ 0.10	
130	R2	RESISTOR, 0.25 W, 0.4 IN LEAD PITCH RES 2.2K OHM 1/4W 5% AXIAL	1	YAGEO	CFR-25JB-52-2K2	DIGI-KEY	2.2KQBK-ND	\$ 0.61	10	\$ 0.06	\$ 0.06	DIGI-KEY	2.2KQBK-ND	\$ 0.61	10	\$ 0.06	\$ 0.06	
140	R3	Metal Film Resistors - Through Hole 1/10watt 6.25Kohms .1% 25ppm	1	Vishay / Dale	RN55E6251BB14	MOUSER	71-RN55E-B-6.25K	\$ 0.55	1	\$ 0.55	\$ 0.55	MOUSER	71-RN55E-B-6.25K	\$ 0.55	1	\$ 0.55	\$ 0.55	
150	R4	RESISTOR, 0.25 W, 0.4 IN LEAD PITCH RES 20K OHM 1/4W 5% AXIAL	1	YAGEO	CFR-25JB-52-20K	DIGI-KEY	20KQBK-ND	\$ 0.61	10	\$ 0.06	\$ 0.06	DIGI-KEY	20KQBK-ND	\$ 0.61	10	\$ 0.06	\$ 0.06	
160	R5	RESISTOR, 0.25 W, 0.4 IN LEAD PITCH RES 3.3K OHM 1/4W 5% AXIAL	4	YAGEO	CFR-25JR-52-3K3	DIGI-KEY	3.3KQTR-ND	\$ 0.70	10	\$ 0.07	\$ 0.28	DIGI-KEY	3.3KQTR-ND	\$ 0.70	10	\$ 0.07	\$ 0.28	
170	C1	CAP TANT 1UF 35V 10% RADIAL	1	AVX Corporation	TAP105K035SCS	DIGI-KEY	478-1835-ND	\$ 4.55	10	\$ 0.46	\$ 0.46	MOUSER	581-TAP105K035SCS	\$ 4.50	10	\$ 0.45	\$ 0.45	
180	C2	Aluminum Electrolytic Capacitors - Leaded 100uF 6.3 Volts 20%	1	Nichicon	UTT0J101MDD1TP	DIGI-KEY	493-10382-1-ND	\$ 8.11	10	\$ 0.81	\$ 0.81	DIGI-KEY	493-10382-1-ND	\$ 8.11	10	\$ 0.81	\$ 0.81	
190	C3	Aluminum Electrolytic Capacitors - Leaded 25volts 470uF 85c 12.5x20 5LS	1	Nichicon	UFG1E471MHH1TO	DIGI-KEY	493-10909-1-ND	\$ 12.21	10	\$ 1.22	\$ 1.22	DIGI-KEY	493-10909-1-ND	\$ 12.21	10	\$ 1.22	\$ 1.22	
200	C4		1					\$ 0.00	1	\$ 0.00	\$ 0.00			\$ 0.00	1	\$ 0.00	\$ 0.00	
210	C5	470pF ±5% 50V C0G, NP0 Ceramic Capacitor - 55°C - 125°C Through Hole Radial 0.157" L x 0.098" W (4.00mm x 2.50mm)	1	Vishay BC Components	K471J15C0GF5TH5	DIGI-KEY	BC1046CT-ND	\$ 2.00	10	\$ 0.20	\$ 0.20	DIGI-KEY	BC1046CT-ND	\$ 2.00	10	\$ 0.20	\$ 0.20	
220	C6	2000pF ±20% 1000V (1kV) Z5U Ceramic Capacitor -30°C - 85°C Through Hole Radial, Disc 0.295" Dia (7.50mm)	1	Vishay BC Components	S202M29Z5UN63L6R	DIGI-KEY	1268PH-ND	\$ 2.06	10	\$ 0.21	\$ 0.21	DIGI-KEY	1268PH-ND	\$ 2.06	10	\$ 0.21	\$ 0.21	
		3300pF ±5% 50V C0G, NP0 Ceramic Capacitor 55°C - 125°C Through Hole Radial 0.157" L x 0.098" W (4.00mm x 2.50mm)		TDK Corporation	FG28C0G1H332JNT06	DIGI-KEY	445-173494-1-ND	\$ 2.78	10	\$ 0.28		MOUSER	810-FG28C0G1H332JNT6	\$ 1.74	10	\$ 0.17		
230	#6 SCREW	Thread-Forming Screw for Plastic 18-8 Stainless Steel, 6-19 Thread, 1/4" Length	4	NA	NA	MCMaster-CARR	99461A220	\$ 12.79	50	\$ 0.26	\$ 1.02	MCMaster-CARR	99461A220	\$ 12.79	50	\$ 0.26	\$ 1.02	
240	DIN RAIL CLIP	1201578 USA 10-select	2	PHOENIX CONTACT	1201578	DIGI-KEY	277-2296-ND	\$ 11.30	10	\$ 1.13	\$ 2.26	DIGI-KEY	277-2296-ND	\$ 11.30	10	\$ 1.13	\$ 2.26	
											\$ 76.76						\$ 76.23	