

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	OEM	OEM PART NUMBER	VENDOR1	VENDOR1 PART NUMBER
10	TOOLERATOR 3000 PCB	TOOLERATOR 3000 BARE PCB	1				
20	ARDUINO NANO	arduino nano	1	ARDUINO	A000005	MOUSER	992-ARD-NANO30
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
40	SWITCH	SWITCH TACTILE SPST-NO 0.05A 24V 6x6x5mm	2	TE Connectivity Alcoswitch Switches	1825910-6	DIGI-KEY	450-1650-ND
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
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
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
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
90	LED 5mm	LED GREEN CLEAR 5MM ROUND T/H	2	KINGBRIGHT	WP7113CGCK	DIGI-KEY	754-1262-ND
100	OPTO-ISOLATOR	OPTOISOLATOR 5KV TRANSISTOR 4DIP	4	Sharp Microelectronics	PC817XNNSZ0F	DIGI-KEY	425-2857-ND
		Transistor Output Optocouplers 50-600CTR 5000Vrms -55 to +110 Op Temp		Everlight	EL817-G	MOUSER	638-EL817G
110	LMD18245T-NOPB	IC MOTOR DRIVER PAR TO220-15	1	Texas Instruments	LMD18245T/NOPB	DIGI-KEY	LMD18245T/NOPB-ND
120	TOOLENATOR 3000 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
130	TOOLENATOR 3000 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
140	TOOLENATOR 3000 R3	Metal Film Resistors - Through Hole 1/10watt 6.25Kohms .1% 25ppm	1	Vishay / Dale	RN55E6251BB14	MOUSER	71-RN55E-B-6.25K
150	TOOLENATOR 3000 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
160	TOOLENATOR 3000 R5-6-7-8	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
170	TOOLENATOR 3000 C1	CAP TANT 1UF 35V 10% RADIAL	1	AVX Corporation	TAP105K035SCS	DIGI-KEY	478-1835-ND
180	TOOLENATOR 3000 C2	Aluminum Electrolytic Capacitors - Leaded 100uF 6.3 Volts 20%	1	Nichicon	UTT0J101MDD1TP	DIGI-KEY	493-10382-1-ND
190	TOOLENATOR 3000 C3	Aluminum Electrolytic Capacitors - Leaded 25volts 470uF 85c 12.5x20 5LS	1	Nichicon	UFG1E471MHM1TO	DIGI-KEY	493-10909-1-ND
200	TOOLENATOR 3000 C4	CAP TANT 1UF 35V 10% RADIAL	1				
210	TOOLENATOR 3000 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
220	TOOLENATOR 3000 C6	2200pF ±10% 100V X7R Ceramic Capacitor - 55°C ~ 125°C Through Hole Radial 0.142" L x 0.091" W (3.60mm x 2.30mm)	1	Vishay BC Components	K222K10X7RH5UH5	DIGI-KEY	BC2676CT-ND
230	DIN RAIL SCREW	Thread-Forming Screw for Plastic 18-8 Stainless Steel, 6-19 Thread, 1/4" Length	4	NA	NA	MCMaster-CARR	99461A220
240	DIN RAIL CLIP	DIN RAIL CLIP	2	PHOENIX CONTACT	1201578	DIGI-KEY	277-2296-ND

	c6 3300pF needs r4 15K ohm	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
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