

Project:	Mice Project						
Date:	11 April 2021						
Revision:	1.10						
File:	https://docs.google.com/spreadsheets/d/1wsYAm-aeouE0Dz3TTZg9oKmb033nBFwkyZ7U3SXoDRo/edit?usp=sharing						
Value	Designator	Footprint	Description	Mfg	Mfg PN	Qty	Remarks
27pF	C15, C16,	CAP0402	27pF ±5% 50V Ceramic Capacitor C0G, NP0 0402	MURATA	GCQ1555C1H270JB01D	2	
1.5nF	C3,	CAP0603	1500pF ±5% 50V Ceramic Capacitor C0G, NP0 0603	MURATA	GRM1885C1H152JA01D	1	
33nF	C2,	CAP0603	0.033µF ±10% 50V Ceramic Capacitor X7R 0603	WURTH	885012206092	1	
0.1uF	C12, C14, C13,	CAP0603	0.1µF ±10% 50V Ceramic Capacitor X7R 0603	AVX	06035C104KAZ2A	3	
1uF	C7, C8, C11, C9, C10,	CAP0603	1µF ±10% 10V Ceramic Capacitor X7R 0603	SAMSUNG	CL10B105KP8NNNC	5	
10uF	C1, C5, C6,	CAP0805	10µF ±10% 16V Ceramic Capacitor X7R 0805	SAMSUNG	CL21B106KOQNNNE	3	
0R	R1,	RES0603	0 Ohms Jumper 0.125W, 1/8W Chip Resistor 0603	VISHAY	MCT06030Z0000ZP500	1	
220R	R21, R19, R14, 23, R11, R16, R17	RES0603	220 Ohms ±1% 0.1W, 1/10W Chip Resistor 0603	YAGEO	RC0603FR-07220RL	7	
1k	R6, R13,	RES0603	1 kOhms ±1% 0.1W, 1/10W Chip Resistor 0603	YAGEO	RC0603FR-071KL	2	
9.1k	R3,	RES0603	9.1 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603	PANASONIC	ERA-3AEB912V	1	
10k	R4, R10, R12, R20, R22, R15,	RES0603	10 kOhms ±1% 0.25W, 1/4W Chip Resistor 0603	ROHM	ESR03EZPF1002	5	
10k	RV2, RV3, RV1,	3306K-THRU	10 kOhms 0.2W, 1/5W PC Pins Through Hole Trimmer Potentiometer Cermet 1 Turn Side Adjustment	BOURN	3306K-1-103	3	
11.8k	R5,	RES0603	11.8 kOhms ±1% 0.1W, 1/10W Chip Resistor 0603	PANASONIC	ERJ-3EKF1182V	1	
30.1k	R9,	RES0603	30.1 kOhms ±1% 0.1W, 1/10W Chip Resistor 0603	YAGEO	RC0603FR-0730K1L	1	
100k	R7, R8,	RES0603	100 kOhms ±1% 0.1W, 1/10W Chip Resistor 0603	YAGEO	AT0603FRE07100KL	2	
220k	R18,	RES0603	200 kOhms ±1% 0.1W, 1/10W Chip Resistor 0603	YAGEO	RC0603FR-07200KL	1	
120R	FB1,	FER0603	220 Ohms @ 100MHz 1 Power Line Ferrite Bead 0603 1.4A 100mOhm	MURATA	BLM18PG221SN1D	1	
744878004	L1,	744878004-SMD	INDUCT ARRAY 2 COIL 4.7UH SMD	WURTH	744878004	1	
MBRA210LT	D1,	MBRA210-SMA	DIODE SCHOTTKY 10V 2A SMA	ONSEMI	MBRA210LT3G	1	
MMSZ5231B-7-F	D2,	SZMMSZ9-SOD123	Zener diode, small symbol, filled shape	ONSEMI	SZMMSZ9V1T1G	1	
L196L-LIC-TR	D3, D4, D5, D6	LTST-C170-0805	Red 631nm LED Indication - Discrete 2V 0805	ONLITE	LTST-C170KRKT	4	
NXV75UPR	Q1,	NXV75UPR-SOT233	P-Channel 20V 1.8A (Ta) 340mW (Ta), 2.1W (Tc) Surface Mount TO-236AB	NEXP	NXV75UPR	1	
TSW-106-25-S-S-RA	J1,	THRU-254-RHT-6P	CONN HEADER R/A 6POS 2.54MM	SAMTEC	TSW-106-25-S-S-RA	1	
68024-102HLF	J3 (06)	THRU-254-STR-6P	CONN HEADER VERT 40POS 2.54MM	SULLIN	PRPC040SFAN-RC	1	
B5B-XH-A(LF)(SN)	J5, J4,	THRU-250-STR-5P	Connector Header Through Hole 5 position 0.098" (2.50 mm)	JST	B5B-XH-A(LF)(SN)	2	
32.768KHZ	Y1,	ECX1210-2SMD	XTAL 32.768kHz ±20ppm 12.5pF 90 kOhms 2-SMD, No Lead	ECS	ECS-.327-12.5-1210-TR	1	
L101011MS02Q	SW5,	L101011-THRU	Slide Switch SPST Through Hole	C&K	L101011MS02Q	1	
SPST	SW8, SW1, SW2, SW3, SW4, SW6, SW7,	PTS526-4SMD	SWITCH TACTILE SPST-NO 0.05A 24V	C&K	PTS526 SM15 SMTR2 LFS	7	

BAT-HOLDER	BT1	1042-SMD	BATTERY HOLDER 18650 SMD TAB	KEystone	1042	1	
ADP1612	U1,	ADP1612-8MSOP	IC REG BST SEPIC ADJ 1.4A 8MSOP	ANALOG	ADP1612ARMZ-R7	1	
PIC16F886	U2,	PIC16F886-28SOIC	IC MCU 8BIT 14KB FLASH 28SOIC	MICROCHIP	PIC16F886-E/SO	1	
ULN2803A	U3,	ULN2803A-18SO	TRANS 8NPN DARL 50V 0.5A 18SO	TI	ULN2803ADWG4	1	
74LVC1G332	U4,	74LVC1G332-6TSOP	IC GATE OR 1CH 3-INP 6TSOP	NEXP	74LVC1G332GV-Q100H	1	
ADCMP393	U5,	ADCMP393-14SOIC	IC COMPARATOR QUAD RRO 14SOIC	ANALOG	ADCMP393ARZ	1	
TCRT1000	U7, U8, U6,	TCRT1000-THRU	SENSOR OPTO TRANS 4MM REFL THPCB	VISHAY	TCRT1000	3	
Other Part Part							
PPTC201LFBN-RC		THRU-254-STR-5P	20 Position Header Connector 0.100" (2.54mm) Through Hole Tin	SULLIN	PPTC201LFBN-RC	1	
Do not populate							
0R	R2,	RES0603	0 Ohms Jumper 0.125W, 1/8W Chip Resistor 0603	VISHAY	MCT06030Z0000ZP500	1	
DNP	C4,	CAP0603	Unpolarized capacitor, small symbol			2	