

Ref	Value	Qty	Description	Product	Vendor
C1, C2	1uF		2 CAP CER 1UF 10V 10% X7R 0805	CC0805KKX7R6BB105	Yageo
C13, C14	8pF		2 CAP CER 8PF 50V NPO 0805	CC0805DRNPO9BN8R0	Yageo
C9, C17 - C18	10uF		3 CAP CER 10UF 6.3V X5R 0805	CC0805KKX5R5BB106	Yageo
CLED1 - CLED4, C3-C7	0.1 uF		9 CAP CER 0.1UF 16V X7R 0805	CL21B104KOANNNC	Yageo
D1	SCHOTTKY		1 DIODE SCHOTTKY 30V 1A MINI2	DB2X41100L	Panasonic
D1:1	1N4148		24 1N4148 SOD123 DIODE	1N4148W-FDICT-ND	Diodes Inc
F1	PTC FUSE		1 PTC RESTTBLE 1.0A 6V CHIP 1206	OZCJ0100FF2E	Bel Fuse Inc
L2	4.7uH		1 FIXED IND 4.7UH 1.9A 84 MOHM SMD	SRN4018-4R7M	Bourns Inc
LED1:1 - LED6:4, :LEDI1 - LEDI6	LED		24 2x3x4mm 1.8mm 3mm flangeless LED		
LEDG1 - LEDG4	WS2812B		4 LED RGB WS2812B W/DVR 4SMD 10PK	WS2812B	WorldSemi
LEDI7	LED		1 0805 SMD LED		
P1	USB_CONN		1 USB Micro B Female	10103594-0001LF	Amphenol
R1	1k		1 RES SMD 1K OHM 1% 1/8W 0805	RC0805FR-071KL	Yageo
R24	330		1 RES SMD 330 OHM 1% 1/8W 0805	RC0805FR-07330RL	Yageo
R25	RLED		1 Resistor to set LED current select 0.1/I		Yageo
R3, R4	22		2 RES SMD 22 OHM 5% 1/8W 0805	RC0805FR-0722RL	Yageo
R33	100		1 RES SMD 100 OHM 1% 1/8W 0805	RC0805FR-07100RL	Yageo
R9, R14	100k		2 RES SMD 100K OHM 1% 1/8W 0805	RC0805FR-07100KL	Yageo
RI1 - RI7	470		7 0805 Resistor for LED	RC0805FR-07470KL	Yageo
S1	TAC_SWITCH		1 SWITCH TACTILE SPST-NO 0.02A 15V	PTS525SM15SMTR2 LFS	C&K Components
S1:1	SW		24 MX Alps or compatible switch		
U1	ATMEGA32U4		1 IC MCU 8BIT 32KB FLASH 44TQFP	ATMEGA32U4-AU	Atmel
U3	IP4234CZ6		1 TVS DIODE 5.5VWM 6TSOP	IP4234CZ6	NXP
U5	PAM2804		1 LED Driver IC 1 Output DC DC Buck 1A	PAM2804AAB010	Diodes Inc
X1	16Mhz		1 Crystal 16.0000MHz 15ppm 8pF 50 Ohm	NX3225SA-16.000MHZ-STD-CSR-1	NDK
<b>Encoder (Optional)</b>					
S2	ENCODER		1 ENCODER ROTARY	PEC12R-4017F-N0024	Bourns Inc
R34, R35	10k		2 RES SMD 10K OHM 1% 1/8W 0805	RC0805FR-0710KL	Yageo
C22, C23	1uF		2 CAP CER 1UF 10V 10% X7R 0805	CC0805KKX7R6BB105	Yageo
<b>Buzzer (Optional)</b>					
BZ1	BUZZER		1 BUZZER MAGNETIC 3.6V 8.5MM SMD	SMT-0931-S-R	PUI Audio Inc
C8	0.1 uF		1 CAP CER 0.1UF 16V X7R 0805	CL21B104KOANNNC	Yageo