

Label	Component	Cost	Link
R1	4.7KΩ Resistor	\$0.01	https://www.taydaelectronics.com/resistors/1-8w-metal-film-resistors/r-4-7k-ohm-1-8w-1-metal-film-resistor.html
R2	4.7KΩ Resistor	\$0.01	https://www.taydaelectronics.com/resistors/1-8w-metal-film-resistors/r-4-7k-ohm-1-8w-1-metal-film-resistor.html
R3	470Ω Resistor	\$0.01	https://www.taydaelectronics.com/resistors/1-8w-metal-film-resistors/r-470-ohm-1-8w-1-metal-film-resistor.html
R4	470Ω Resistor	\$0.01	https://www.taydaelectronics.com/resistors/1-8w-metal-film-resistors/r-470-ohm-1-8w-1-metal-film-resistor.html
R5	470Ω Resistor	\$0.01	https://www.taydaelectronics.com/resistors/1-8w-metal-film-resistors/r-470-ohm-1-8w-1-metal-film-resistor.html
R6	470Ω Resistor	\$0.01	https://www.taydaelectronics.com/resistors/1-8w-metal-film-resistors/r-470-ohm-1-8w-1-metal-film-resistor.html
R7	470Ω Resistor	\$0.01	https://www.taydaelectronics.com/resistors/1-8w-metal-film-resistors/r-470-ohm-1-8w-1-metal-film-resistor.html
R8	560Ω Resistor	\$0.01	https://www.taydaelectronics.com/resistors/1-8w-metal-film-resistors/r-560-ohm-1-8w-1-metal-film-resistor.html
R9	560Ω Resistor	\$0.01	https://www.taydaelectronics.com/resistors/1-8w-metal-film-resistors/r-560-ohm-1-8w-1-metal-film-resistor.html
R10	560Ω Resistor	\$0.01	https://www.taydaelectronics.com/resistors/1-8w-metal-film-resistors/r-560-ohm-1-8w-1-metal-film-resistor.html
R11	680Ω Resistor	\$0.01	https://www.taydaelectronics.com/resistors/1-8w-metal-film-resistors/71861-dup-r-5-1-ohm-1-8w-1-metal-film-resistor.html
R12	680Ω Resistor	\$0.01	https://www.taydaelectronics.com/resistors/1-8w-metal-film-resistors/71861-dup-r-5-1-ohm-1-8w-1-metal-film-resistor.html
R13	680Ω Resistor	\$0.01	https://www.taydaelectronics.com/resistors/1-8w-metal-film-resistors/71861-dup-r-5-1-ohm-1-8w-1-metal-film-resistor.html
R14	820Ω Resistor	\$0.01	https://www.taydaelectronics.com/resistors/1-8w-metal-film-resistors/23515-dup-r-5-1-ohm-1-8w-1-metal-film-resistor.html
R15	330Ω Resistor	\$0.01	https://www.taydaelectronics.com/resistors/1-8w-metal-film-resistors/r-330-ohm-1-8w-1-metal-film-resistor.html
C1	100nF Ceramic Capacitor	\$0.01	https://www.taydaelectronics.com/capacitors/ceramic-disc-capacitors/10-x-0-1uf-50v-ceramic-disc-capacitor-pkg-of-10.html
C2	10nF Ceramic Capacitor	\$0.01	https://www.taydaelectronics.com/capacitors/ceramic-disc-capacitors/10-x-0-01uf-50v-ceramic-disc-capacitor-pkg-of-10.html
C3	10uF Electrolytic Capacitor	\$0.02	https://www.taydaelectronics.com/capacitors/electrolytic-capacitors/10uf-16v-85c-radial-electrolytic-capacitor.html
Buzzer1	PKM13EPYH4000-A0	\$0.24	https://www.taydaelectronics.com/piezo-electronic-tone-buzzer-alarm-30v-4000-hz-pcb-2-pin.html
U1	NE555P	\$0.19	https://www.taydaelectronics.com/ne555-ic-555-texas-timer.html
SW1	SS-12D10L5	\$0.19	https://www.taydaelectronics.com/electromechanical/switches-key-pad/slide-switch/slide-switch-1p2t-through-hole-2a-125vac-short-pins.html
BAT1	CR2032-2-1	\$0.10	https://www.taydaelectronics.com/coin-battery-holder-cr2025-and-cr2032.html
LED1	5MM TH LED	\$0.03	https://www.taydaelectronics.com/leds/round-leds/5mm-leds/led-5mm-red.html
Stylus	Dupont Jumper Cable	\$1.11	https://www.taydaelectronics.com/premium-jumper-wires-awg24-male-male-200mm-pack-of-40.html
TOTAL		\$2.08	

NOTES:

For the resistors, I use 1/8W 1% metal film resistors. You can absolutely use other resistors but keep in mind that the lower the tolerance for the resistors, the greater the chance the keys will be slightly out of tune.

Tayda Electronics is where I buy my electronics components from since they are incredibly cheap there and I tend to buy in bulk. Most of the links for the cheaper components will require you to buy the components in numbers of 10 or greater. If this is not feasible for you, I suggest trying Digilink or Mouser for alternative suppliers.

I have had a fair amount of success with this buzzer but it can easily be replaced with any similar buzzer as long as it is passive and not active.

Any SPDT or SPST switch should work here as long as it fits the holes on the board

Any generic coin cell battery holder should work here as long as it fits the holes on the board

I like the red LEDs for this project but feel free to swap it out with whatever color you want!

I like to use the Dupont jumper cables because I often have them on hand, but you can swap this out for any conductive wire. The only requirements are that it can be soldered to the STYLUS pad and has an exposed side for the stylus.