

## BOM

Pipet  
Rev. 1.0

12/13/2020

| Qty.    | Reference   | Value       | Component      | Tol. | Note     | Manufacturer      | Part Number        | Mouser Number        | Price   | Total   |
|---------|---|-------------|----------------|------|----------|-------------------|--------------------|----------------------|---------|---------|
| 2       | D1, D2  | 1N5819      | Diode          |      | SOD-123  | Diodes Inc.       | 1N5819HW-7-F       | 621-1N5819HW-F       | \$ 0.40 | \$ 0.80 |
| 3       | IC1, IC2, IC3                                     | OPA4171     | Op Amp         |      | TSSOP    | Texas Instruments | OPA4171AIPW        | 595-OPA4171AIPW      | \$ 2.93 | \$ 8.79 |
| 3       | LED1, LED2, LED3                                  | WP937EGW    | LED            |      | Bi-color | Kingbright        | WP937EGW           | 604-WP937EGW         | \$ 0.59 | \$ 1.77 |
|         |   |             |                |      |          |                   |                    |                      |         | \$ -    |
| 9       | R2, R3, R4, R7, R8, R9, R12, R13, R14             | 51R         | Resistor       | 1%   | 0603     | Yageo             | RC0603FR-0751RL    | 603-RC0603FR-0751RL  | \$ 0.10 | \$ 0.90 |
| 3       | R5, R10, R15                                      | 1.0k        | Resistor       | 1%   | 0603     | Yageo             | RC0603FR-071KL     | 603-RC0603FR-071KL   | \$ 0.10 | \$ 0.30 |
| 3       | R1, R6, R11                                       | 10M         | Resistor       | 1%   | 0603     | Yageo             | RC0603FR-1010ML    | 603-RC0603FR-1010ML  | \$ 0.10 | \$ 0.30 |
| 2       | C1, C2  | 10uF        | Pol. Capacitor | 20%  | S-V      | Panasonic         | EEE-1VA100WR       | 667-EEE-1VA100WR     | \$ 0.24 | \$ 0.48 |
| 6       | C3, C4, C5, C6, C7, C8                            | 100nF       | Capacitor      | 10%  | 0603     | AVX               | 06033C104KAT4A     | 581-06033C104KAT4A   | \$ 0.09 | \$ 0.54 |
|         |   |             |                |      |          |                   |                    |                      |         | \$ -    |
| 1       | JP1   | 10 Pos. 5X2 | Header         |      |          | Amphenol FCI      | 10129381-910001BLF | 649-1012938191001BLF | \$ 0.26 | \$ 0.26 |
| 12      | J1, J2, J3, J4, J5, J6, J7, J8, J9, J10, J11, J12 | Thonkiconn  | Jack           |      |          | Thonk             | PJ398SM            |                      | \$ 0.60 | \$ 7.20 |
| 1       |   |             | PCB            |      |          | SoundFlask        |                    |                      | \$ 5.00 | \$ 5.00 |
| 1       |   |             | Panel          |      |          | SoundFlask        |                    |                      | \$ 5.00 | \$ 5.00 |
| Total - |   |             |                |      |          |                   |                    |                      |         | \$31.34 |