|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Image | Part Name &  Part Number | Supplier / Manufacturer | Part Type & Use | Quantity | Cost per Purchase | Cost per Stethoscope | Link | Associated Documentation |
|  | XIAO rp2040  SKU: 102010428 | Seeed | Microcontroller  for powering stethoscope and allowing it to be treated as a USB microphone | 1 board | $5.40 | $5.40 | [seeed\_XIAO\_rp2040](https://www.seeedstudio.com/XIAO-RP2040-v1-0-p-5026.html?gclid=CjwKCAjwyryUBhBSEiwAGN5OCI7WuxWBaaORjbeqGIfqSfpMNfckhvS_kDpI4O9fUpDoT5V69NSQwBoCbkgQAvD_BwE) | [datasheet](https://files.seeedstudio.com/wiki/XIAO-RP2040/res/rp2040_datasheet.pdf) |
|  | PDM MEMS  Microphone Breakout  PRODUCT ID: 3492 | Adafruit | Microphone  for stethoscope functionality | 1 board | $4.95 | $4.95 | [PDM\_MEMS\_mic](https://www.adafruit.com/product/3492?utm&gclid=CjwKCAjw7cGUBhA9EiwArBAvouSsYMRuDbHEOsEuKnyRxNwd0efXCaPCq7g0xzl1rCmsWNerXYqjlxoC1wEQAvD_BwE) | [mic\_documentation](https://cdn-learn.adafruit.com/downloads/pdf/adafruit-pdm-microphone-breakout.pdf) |
|  | PLA Filament for Finder, Dreamer, Inventor Series, & Adventurer 3  Part Number: N/A | FlashForge | 3D Printer Filament  for stethoscope material | head: 130.7g  handle: 63.87g  ring: 7.47g  total: 202.4g | $34 | ~ $13.76 | [PLA\_filament](https://flashforge-usa.com/collections/materials/products/pla-filament-for-finder-dreamer-and-inventor-models) | N/A |
|  | Slide Locking Report Covers, Letter, White, 5/Pack  Item #: 919872  Model #: 20592 | Staples | Plastic Sheet  for stethoscope  diapragm | 1 cutout  (4 per sheet) | $6.79 | ~ $0.34 | [diaphragm\_material](https://www.staples.com/Staples-Side-Lock-Report-Covers-5-Pack-White-20592/product_919872) | N/A |
| Total cost:  ~ $24.45 |