PCB Components - PPG

Note that all components were ordered from Imperial College London approved suppliers:

* Farnell
* RS
* Mouser Electronics
* Medisave

Cheaper options may be available from other suppliers but were not considered during this project.

# PPG Board

The following prices for the PPG Board are assuming the board is manufactured in bulk and represents the minimum cost possible. This board was not printed and built during the project.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name on PCB | Component / Footprint | Description / Value | Supplier | Manufacturer | Unit Price(exc VAT) / £ |
| U1 | MAX30102EFD+ |  | Mouser Electronics | Maxim Integrated | 3.87 |
| U2 | MAX14595ETA+ |  | Mouser Electronics | Maxim Integrated | 1.77 |
| U3 | MAX1921EUT18+ |  | Mouser Electronics | Maxim Integrated | 1.48 |
| R1, R2, R3, R4, R5 | 0402 SMD Resistor | 4.7 k | Farnell | Multicomp | 0.0005 |
| R6 | 0402 SMD Resistor | 4.75 k | Farnell | Multicomp | 0.0004 |
| C1, C2 | 0402 SMD Capacitor | 1 | Farnell | Multicomp | 0.002 |
| C3, C4 | 0402 SMD Capacitor | 4.7 | Farnell | Murata | 0.0142 |
| C5 | 0402 SMD Capacitor | 5600 | Farnell | Multicomp | 0.0017 |
| C6, C7 | 0402 SMD Capacitor | 0.1 | Farnell | Murata | 0.0024 |

**Total Component Cost**: £7.1614

Or buy the **MAXREFDES117#** board ready for £19.32 (inc Handling fee and VAT) via Farnell:

<https://uk.farnell.com/maxim-integrated-products/maxrefdes117/ref-des-brd-heart-rate-pulse-oximeter/dp/2627165>