List of components

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parts | Unit price | Qty. | Total | Link |
| **Slide Switch** | ~~0.557~~  0.377 | ~~10~~  10 | ~~5.57~~  3.77 | [~~http://uk.farnell.com/c-k-components/os103012mu1qp1/switch-slide-sp3t/dp/2435107~~](http://uk.farnell.com/c-k-components/os103012mu1qp1/switch-slide-sp3t/dp/2435107)  <http://uk.farnell.com/c-k-components/os103011ms8qp1/switch-sp3t-0-1a-12vdc-pcb-on/dp/2319954>  <https://uk.rs-online.com/web/p/slide-switches/1542581/> |
| **Pin Header** | 0.054 | 125 | 6.75 | <http://uk.rs-online.com/web/p/products/2518086/> |
| **Terminal Block** | 0.208 | 5 | 1.04 | <http://uk.rs-online.com/web/p/products/4258720/> |
| **Jumper** | 0.197 | 30 | 5.91 | <http://uk.rs-online.com/web/p/jumpers-shunts/2518682/> |
| **Zener diode** | 0.486 | 56 | 27.216 | <http://uk.farnell.com/diodes-inc/bzt52c2v4s-7-f/diode-zener-2-4v-200mw-sod323/dp/2077909> |
| **Potentiometer** | 2.54 | 2 | 5.08 | <http://uk.farnell.com/bourns/3299w-1-103lf/pot-trimmer-10k-25-turn-3-pin/dp/9353704> |
| **Array Inverter** | 0.415 | 2 | 0.83 | <http://uk.farnell.com/texas-instruments/cd4069ube/ic-4000-cmos-4069-dip14-18v/dp/1106113> |
| **Int Amp** | 5.31 | 2 | 10.62 | <http://uk.farnell.com/texas-instruments/ina121pa/ic-inst-amp-fet-600khz-dip8/dp/1648643> |
| **Opamp TL081** | 0.525 | 2 | 1.05 | <http://uk.farnell.com/texas-instruments/tl081ip/ic-op-amp-jfet-input-dip8/dp/9593373> |
| **VSS supply generator** | 2.54 | 2 | 5.08 | <http://uk.farnell.com/texas-instruments/lt1054ip/dc-dc-conv-switched-capacitor/dp/2323589> |
| **Comparator** | 2.02 | 2 | 4.04 | <http://uk.farnell.com/maxim-integrated-products/max993esd/comparator-r-to-r-quad-300ns-nsoic/dp/2515111> |
| **SMD res 5Ω** | 0.017 | 10 | 0.17 | <http://uk.rs-online.com/web/p/surface-mount-fixed-resistors/7944095/> |
| **SMD res 10kΩ** | 0.015 | 50 | 0.75 | <http://uk.rs-online.com/web/p/surface-mount-fixed-resistors/2230562/> |
| **SMD res 221kΩ** | 0.02 | 10 | 0.2 | <http://uk.rs-online.com/web/p/surface-mount-fixed-resistors/7086824/> |
| **SMD res 1MΩ** | 0.011 | 50 | 0.55 | <http://uk.rs-online.com/web/p/surface-mount-fixed-resistors/2230821/> |
| **SMD cap 10pF** | 0.186 | 5 | 0.93 | <http://uk.rs-online.com/web/p/ceramic-multilayer-capacitors/6984033/> |
| **SMD cap 20pF** | 0.1 | 25 | 2.5 | <http://uk.rs-online.com/web/p/ceramic-multilayer-capacitors/6983358/> |
| **SMD cap 39pF** | 0.336 | 5 | 1.68 | <http://uk.rs-online.com/web/p/ceramic-multilayer-capacitors/6984086/> |
| **SMD cap 82pF** | 0.098 | 5 | 0.49 | <http://uk.rs-online.com/web/p/ceramic-multilayer-capacitors/6984119/> |
| **SMD cap 150pF** | 0.302 | 10 | 3.02 | <http://uk.rs-online.com/web/p/ceramic-multilayer-capacitors/7880478/> |
| **SMD cap 330pF** | 0.006 | 50 | 0.30 | <http://uk.rs-online.com/web/p/ceramic-multilayer-capacitors/4646616/> |
| **SMD cap 680pF** | 0.046 | 25 | 1.15 | <http://uk.rs-online.com/web/p/ceramic-multilayer-capacitors/6983535/> |
| **SMD cap 1nF** | 0.015 | 50 | 0.75 | <http://uk.rs-online.com/web/p/ceramic-multilayer-capacitors/4646666/> |
| **SMD cap 100nF** | 0.016 | 25 | 0.4 | <http://uk.rs-online.com/web/p/ceramic-multilayer-capacitors/2644416/> |
| **SMD cap 330nF** | 0.05 | 50 | 2.5 | <http://uk.rs-online.com/web/p/ceramic-multilayer-capacitors/7984738/> |
| **SMD cap 1uF** | 0.039 | 25 | 0.975 | <http://uk.rs-online.com/web/p/ceramic-multilayer-capacitors/4515770/> |
| **SMD cap 10uF** | 0.032 | 25 | 0.8 | <http://uk.rs-online.com/web/p/ceramic-multilayer-capacitors/6983548/> |
| **SMD cap 47uF** | 0.615 | 10 | 6.15 | <http://uk.rs-online.com/web/p/ceramic-multilayer-capacitors/8851786/> |
| **SMD cap 100uF** | 0.692 | 10 | 6.92 | <http://uk.rs-online.com/web/p/ceramic-multilayer-capacitors/9039628/> |
| **Total** |  |  | 98.346 |  |

2nd List

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parts | Unit price | Qty. | Total | Link |
| **Dual DFF** | 0.074 | 25 | 1.85 | <https://uk.rs-online.com/web/p/flip-flop-ics/0526347/> |
| **Hex Inverter** | 2.078 | 5 | 10.39 | <https://uk.rs-online.com/web/p/buffers/6631607/> |
| **Quad NAND2** | 0.75 | 5 | 3.75 | <https://uk.rs-online.com/web/p/standard-logic-gates/6632353/> |
| **5V Regulator** | 1.00 | 2 | 2 | <https://uk.rs-online.com/web/p/linear-voltage-regulators/2988508/> |
| **18V Reg.** | 1.00 | 2 | 2 | <https://uk.rs-online.com/web/p/linear-voltage-regulators/5166183/> |
| **Zener Diode** | 0.2 | 5 | 1 | <https://uk.rs-online.com/web/p/zener-diodes/6547599/> |
| **MOS driver** | 2.235 | 2 | 4.47 | <https://uk.rs-online.com/web/p/mosfet-power-drivers/7747668/> |
| **Dual MOS** | 1.036 | 5 | 5.18 | <https://uk.rs-online.com/web/p/mosfet-transistors/6710356/> |
| **RES 1Ω** | 0.267 | 10 | 2.67 | <https://uk.rs-online.com/web/p/through-hole-fixed-resistors/6835616/> |
| **RES 100Ω**  **1Watt** | 0.063 | 10 | 0.63 | <https://uk.rs-online.com/web/p/through-hole-fixed-resistors/0131772/> |
| **CAP 10pF** | 1.818 | 5 | 9.09 | <https://uk.rs-online.com/web/p/mica-capacitors/0495638/> |
| **RES 1Ω**  **SMD** | 0.26 | 10 | 2.6 | <https://uk.rs-online.com/web/p/surface-mount-fixed-resistors/9056273/> |
| **RES 47Ω**  **SMD** | 0.26 | 10 | 2.6 | <https://uk.rs-online.com/web/p/surface-mount-fixed-resistors/9056342/> |
| **RES 22Ω**  **SMD** | 0.26 | 10 | 2.6 | <https://uk.rs-online.com/web/p/surface-mount-fixed-resistors/9056333/> |
| **RES 10Ω**  **SMD** | 0.26 | 10 | 2.6 | <https://uk.rs-online.com/web/p/surface-mount-fixed-resistors/9056318/> |
| **Slide Switch** | 0.377 | 10 | 3.77 | <http://uk.farnell.com/c-k-components/os103011ms8qp1/switch-sp3t-0-1a-12vdc-pcb-on/dp/2319954> |
| **Total** |  |  | 57.2 |  |