|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr No. | Components | Design | Comment | Links | Buy |
|  | HV9910CLG-G | Chip | Cost is 0.80 AUD/ piece | <https://au.element14.com/microchip/hv9910clg-g/universal-high-brightness-led/dp/2448503?ost=hv9910c> |  |
|  |  | Resistor 1 (R2) | Kit/variable  0.025 ohm | <https://au.element14.com/tt-electronics-welwyn/oar3-r025fi/resistor-1-0r025/dp/1200369> | The Kit is expensive to buy, can discuss about this if needed. |
|  |  | Resistor 2 (R4) | fixed  (0.01 Ohm) | <https://au.element14.com/vishay/lto030fr0100jte3/res-0r01-5-30w-to-220-thick-film/dp/9566872> |  |
|  |  | Capacitor 1 | 100e-6 F | <https://au.element14.com/c/passive-components/capacitors/aluminium-electrolytic-capacitors/leaded-aluminium-electrolytic-capacitors?capacitance=10uf> |  |
|  | MBR20100CT  (On Semi) | Diode 1 | Avg Fwd Current 10 Amp  Breakdown Vol.  100 V | <https://au.element14.com/multicomp/mbr20100ct/schottky-rectifier-20a-100v-to/dp/2675797?st=mbr20100> |  |
|  | IPA086N10N3GXKSA1 | MOSFET  n-channel | V(ds) = 100 V | <https://au.element14.com/infineon/ipa086n10n3gxksa1/mosfet-n-ch-100v-45a-to-220fp/dp/2480793?ost=ipa086n10n3> |  |
|  |  | Inductor 1 | 380e-6 H | <https://au.element14.com/multicomp-pro/mcap115018062a-381mu/inductor-380uh-20-2-pins/dp/1864223> |  |
|  |  | Copper Clad Board/ |  | <https://au.element14.com/cif/adb16/copper-clad-1-side-8-10-35-100x160mm/dp/1643092> |  |
|  |  | Wires | Assorted kit with various sized cables, can buy more wires later if needed. | <https://au.element14.com/multicomp/mc001810/hard-jumper-wire-22awg-140pc/dp/2770338?st=wire%20kit%20jumper> |  |
|  |  | Prototyping board |  | <https://au.element14.com/dfrobot/fit0203/2-dubl-side-prototype-board-58mm/dp/3769960> |  |

Additional: Fuse 25A 80VDC

Fuse 20A 80VDC

Fuse 15A 80VDC