1. **Rectifier:**
2. **Diode**

<https://www.digikey.com/en/products/detail/on-semiconductor/S2G/1049006>

1. **Capacitor**

<https://www.digikey.com/en/products/detail/kemet/ESH107M450AN2AA/7423958?s=N4IgTCBcDaIKIGUASBGADAdgLIBYCsaAggHJiGEgC6AvkA>

1. **Buck Converter**
2. **MOSFET**

<https://www.digikey.com/en/products/detail/on-semiconductor/FDD5N50NZTM/2509581>

1. **Heatsink**

<https://www.digikey.com/en/products/detail/assmann-wsw-components/V-1100-SMD-B/3511513>

1. **Inductor**

<https://www.digikey.com/en/products/detail/abracon-llc/AIRD-02-102K/2660716?s=N4IgTCBcDaIIIEkBKARAtABjGgjFg0iALoC%2BQA>

1. **Capacitor**

<https://www.digikey.com/en/products/detail/w%C3%BCrth-elektronik/860020573008/5728885?s=N4IgTCBcDaIBwDYAMSxIKwHYDMK4gF0BfIA>

1. **Gate Drive**
2. **Driver**

<https://www.digikey.com/en/products/detail/rohm-semiconductor/BS2103F-E2/5955649?s=N4IgTCBcDaIAQCEDKYCMAGAzAMQLQFEIBdAXyA>

1. **Bootstrap Diode**

<https://www.digikey.com/en/products/detail/on-semiconductor/S2G/1049006>

1. **Isolation**
2. **Isolated Opamp**

<https://www.digikey.com/en/products/detail/silicon-labs/SI8920BC-IP/5358956>

1. **Digital Isolator**

<https://www.digikey.com/en/products/detail/silicon-labs/SI8620AB-B-IS/4576730>

1. **Controller**

<https://www.digikey.com/en/products/detail/microchip-technology/PIC16F1614-E-SL/5050777>

1. **Shunt Resistor**

<https://www.digikey.com/en/products/detail/stackpole-electronics-inc/CSS0402FT10L0/10719366>

1. **Power Conversion**
2. **24v/3V3**

<https://www.digikey.com/en/products/detail/texas-instruments/UA78M33CKVURG3/1216814?s=N4IgTCBcDaIAQFUCCB2AHAWQMxYMIGkA1BAJQHEsQBdAXyA>

1. **24v/12v**

<https://www.digikey.com/en/products/detail/texas-instruments/UA7812CKCS/521614>

1. **3V3 Isolation**

<https://www.digikey.com/en/products/detail/recom-power/R1SX-3-33-3-R/6708872?s=N4IgTCBcDaIEoEYDKANAtAZgHQextcIAugL5A>

1. **Connectors**
2. **Motor**

<https://www.digikey.com/en/products/detail/phoenix-contact/5452258/4391131?s=N4IgTCBcDaIKwBY5jHAHCAugXyA>

1. **Battery**

<https://www.digikey.com/en/products/detail/cui-devices/TB007-508-02BE/10064127?s=N4IgTCBcDaICoCEAMSDsBaArEgHOpYCAoiALoC%2BQA>

1. **ICSP**

<https://www.digikey.com/en/products/detail/adam-tech/PH2-06-UA/9830396>

1. **Capasitors**
2. **10nF**

[**https://www.digikey.com/en/products/detail/kemet/C0603C103M5RAC7411/12701322**](https://www.digikey.com/en/products/detail/kemet/C0603C103M5RAC7411/12701322)

1. **100nF**

[**https://www.digikey.com/en/products/filter/ceramic-capacitors/60?s=N4IgjCBcpgLFoDGUBmBDANgZwKYBoQB7KAbXAFYBOAJlgHYQCxLYAOWeA6gZlbt8YhqANgAMw8hC59h3BgWGVh1SiAC6BAA4AXKCADK2gE4BLAHYBzEAF8mwhCGSR02fEVIhuNWPY0gdeoamljZcorCq0I6omLgExJBkYACtAGKCogB0oinpBFm5gtzcomZ5IFnFaYLU1NV%2BAZAgAKpmJtoA8igAsjhoWACuRjg2tkIeiDhGaAC2JogABIhommiI7YRG6tZAA**](https://www.digikey.com/en/products/filter/ceramic-capacitors/60?s=N4IgjCBcpgLFoDGUBmBDANgZwKYBoQB7KAbXAFYBOAJlgHYQCxLYAOWeA6gZlbt8YhqANgAMw8hC59h3BgWGVh1SiAC6BAA4AXKCADK2gE4BLAHYBzEAF8mwhCGSR02fEVIhuNWPY0gdeoamljZcorCq0I6omLgExJBkYACtAGKCogB0oinpBFm5gtzcomZ5IFnFaYLU1NV%2BAZAgAKpmJtoA8igAsjhoWACuRjg2tkIeiDhGaAC2JogABIhommiI7YRG6tZAA)

1. **1uF**

[**https://www.digikey.com/en/products/detail/cal-chip-electronics-inc/GMC10X7R105K25NT/12324800**](https://www.digikey.com/en/products/detail/cal-chip-electronics-inc/GMC10X7R105K25NT/12324800)

1. **0.33 uf**

[**https://www.digikey.com/en/products/detail/würth-elektronik/885012206074/5453847**](https://www.digikey.com/en/products/detail/würth-elektronik/885012206074/5453847)

1. **22uF**
2. **Resistors**
3. **20ohm**

[**https://www.digikey.com/en/products/detail/RK73B1JTTD200G/2019-RK73B1JTTD200GCT-ND/12356499?itemSeq=350638944**](https://www.digikey.com/en/products/detail/RK73B1JTTD200G/2019-RK73B1JTTD200GCT-ND/12356499?itemSeq=350638944)

1. **4.7K**

[**https://www.digikey.com/en/products/detail/RK73B1JRTTD472G/2019-RK73B1JRTTD472GCT-ND/12358871?itemSeq=350639554**](https://www.digikey.com/en/products/detail/RK73B1JRTTD472G/2019-RK73B1JRTTD472GCT-ND/12358871?itemSeq=350639554)

1. **1k**

[**https://www.digikey.com/en/products/detail/würth-elektronik/885012206074/5453847**](https://www.digikey.com/en/products/detail/würth-elektronik/885012206074/5453847)

1. **10k**

[**https://www.digikey.com/en/products/detail/RK73B1JTTD103G/2019-RK73B1JTTD103GCT-ND/12354711?itemSeq=350640624**](https://www.digikey.com/en/products/detail/RK73B1JTTD103G/2019-RK73B1JTTD103GCT-ND/12354711?itemSeq=350640624)

1. **5.6k**

[**https://www.digikey.com/en/products/detail/RK73B1JTTD562G/2019-RK73B1JTTD562GCT-ND/12358993?itemSeq=350641383**](https://www.digikey.com/en/products/detail/RK73B1JTTD562G/2019-RK73B1JTTD562GCT-ND/12358993?itemSeq=350641383)