

| Comment | Description | Designator | Footprint | LibRef | Quantity |
|---|---|--------------------|------------------------------|------------------------------|----------|
| 100uF,50V | Capacitor Polarised | C1 | 100uF,50V | MAL203690109E3 | 1 |
| 100nF | Capacitor, C0805 | C2, C3 | C_5.08mm | C0805 | 2 |
| 220uF,35V | Capacitor Polarised,220uF,35V | C4 | 220uF,35V | 220uF,35V | 1 |
| 1N5822 | Schottky Diode | D1 | 1N5822_(Short) | 1N5822 | 1 |
| 1N4007 | Diode | D2 | 1N4007 | 1N4007 | 1 |
| 47uH | Inductor | L1 | 47uH_Through_Hole | SMDR1127-470MT | 1 |
| Pluggable, Receptacle, Horizontal, 5.08 Pitch, Terminal Block Connector | 2 Pin Pluggable, Receptacle, Horizontal, 5.08 Pitch, Terminal Block Connector | JP1, JP2 | 2_Pin_Pluggable_Ter minal | 2_Pin_Pluggable_Ter minal | 2 |
| Screw_Terminal | Pluggable, Receptacle, Horizontal, 5.08 Pitch, Terminal Block Connector | JP3, JP4 | 4_Pin_Pluggable_Ter minal | 4_Pin_Pluggable_Ter minal | 2 |
| LED | Light Emitting Diode, 5MM, 3.3V | L1, L5 | LED_RED | LED_Red | 2 |
| LED | Light Emitting Diode, 5MM, 3.3V | L2 | LED_Yellow | LED_Yellow | 1 |
| LED | Light Emitting Diode, 5MM, 3.3V | L3 | LED_Blue | LED_Blue | 1 |
| LED | Light Emitting Diode, 5MM, 3.3V | L4 | LED_Green | LED_Green | 1 |
| LED | Light Emitting Diode, 5MM, 3.3V | L6 | LED_Orange | LED_Orange | 1 |
| Mounting_Holes_3.2 mm | Mounting_Holes_3.2 mm | MH1, MH2, MH3, MH4 | Mounting_Hole_3.2m m | Mounting_Holes_3.2 mm | 4 |
| 2N2222A | Transistor BJT NPN | Q1 | 2N2222A_(TO-92) | 2N2222A | 1 |
| 1K | Resistor | R1, R3, R4 | Resistor | Resistor | 3 |
| 330R | Resistor | R2, R5 | Resistor | Resistor | 2 |
| switch 12mm | Switch Tactile N.O. SPST Flat Plunger PC Pins 0.05A 24VDC 1.27N Thru-Hole Bag | SW1 | Switch_12mm | Switch_12mm | 1 |

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|-------------------|--|------------|----------------------|----------------|----------|
| ESP32 WROOM | ESP32 WROOM, 3.3V | U1 | ESP32_(Through Hole) | ESP32 WROOM | 1 |
| LM2596S | Integrated Circuit,Step-down type TO-263-5 DC-DC Converters ROHS | U2 | LM2596 | LM2596S-5.0 | 1 |
| DS3231_RCT Module | DS3231_RCT Module | U3 | DS3231_RCT_MODULE | RCT Module | 1 |
| SD_Card_Module | SD_Card_Module | U4 | SD_Card_Module | SD_Card_Module | 1 |
| 5V_Relay | Relay or Contactor | U5 | SRD_05VDC_SL_C | SRD-05VDC-SL-C | 1 |
| PJ-002A | DC-005 DC Power Jack Female Adapter PCB Mount - 2.1 x 5.5mm | U6 | PJ002A | PJ-002A | 1 |
| 3296W-1-103 | ±10% ±250ppm/°C 10kΩ Plugin Variable Resistors/Potentiometers ROHS | VR1 | 3296W-1-103 | 3296W-1-103 | 1 |