

| Comment                | Description                                                                                                                                    | Designator                        | Footprint                  | LibRef                                | Quantity |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------|---------------------------------------|----------|
| Button                 | PUSH BUTTON                                                                                                                                    | B2, B3, B4                        | PUSH BUTTON 4 PIN SMD 5    | PUSH BUTTON 4 PIN                     | 3        |
| Battery                |                                                                                                                                                | BT1                               | Bat                        | Battery                               | 1        |
| 100nf                  | Capacitor                                                                                                                                      | C1, C3, C5, C6, C7, C12, C14, C15 | CAP0805                    | CAP SMD                               | 8        |
| 10uf                   | Capacitor                                                                                                                                      | C2, C4                            | CAP0805                    | CAP SMD                               | 2        |
| Capacitor Tantalum SMD | Capacitor Tantalum SMD                                                                                                                         | C8, C9                            | Tan 1206 (3216X18L) Size A | Capacitor Tantalum SMD                | 2        |
| 10uf                   | Capacitor                                                                                                                                      | C10, C11                          | CAP 1206 (3216X15L)        | CAP SMD                               | 2        |
| LED RGB WS2812         | LED                                                                                                                                            | D1, D2                            | LED 5050 WS2812B           | LED RGB WS2812                        | 2        |
| TP4056                 | Complete single cell Li-Ion battery with a constant current / constant voltage linear charger                                                  | IC1                               | SOP-8                      | TP4056                                | 1        |
| TYPE-C-31-M-12         | USB Connectors 24 Receptacle 1 8.94*7.3mm RoHS                                                                                                 | J1                                | HRO_TYPE-C-31-M-12         | TYPE-C-31-M-12                        | 1        |
| Header 3X2             | Header, 3-Pin, Dual row                                                                                                                        | P1                                | HDR2X3                     | Header 3X2                            | 1        |
| S8050                  | Bipolar (BJT) Transistor NPN 25 V 500 mA 150MHz 300 mW Surface Mount SOT-23                                                                    | Q1, Q2                            | SOT-23                     | SMD-TRANSISTORS-NPN-25V-500MW(SOT-23) | 2        |
| 4.7k                   | RESISTOR                                                                                                                                       | R1, R3                            | RES 0805                   | RES                                   | 2        |
| 470                    | RESISTOR                                                                                                                                       | R2                                | RES 0805                   | RES                                   | 1        |
| 12k                    | RESISTOR                                                                                                                                       | R4, R6                            | RES 0805                   | RES                                   | 2        |
| 1k                     | RESISTOR                                                                                                                                       | R5, R20                           | RES 0805 (2012X06L)        | RES                                   | 2        |
| 5.1k                   | RESISTOR                                                                                                                                       | R8, R9                            | RES 0805                   | RES                                   | 2        |
| 1k                     | RESISTOR                                                                                                                                       | R11, R12, R13                     | RES 0805                   | RES                                   | 3        |
| 0R                     | RESISTOR                                                                                                                                       | R14, R15                          | RES 0805                   | RES                                   | 2        |
| 1437566-3              |                                                                                                                                                | S1                                | Subminiator SPDT switch    | Subminiator SPDT switch               | 1        |
| B3U-1000P              | Switch Tactile N.O. SPST Round Button Gull Wing 0.05A 12VDC 1.5N SMD Embossed T/R                                                              | S2, S3                            | SW_B3U-1000P               | B3U-1000P                             | 2        |
| LED                    | LED                                                                                                                                            | STD3, STD4                        | L0805                      | LED                                   | 2        |
| Test Point             | Test Point                                                                                                                                     | TP1                               | Test Point SMD             | Test Point                            | 1        |
| ESP32-WROOM-32U        | Bluetooth, WiFi 802.11b/g/n, Bluetooth v4.2 +EDR, Class 1, 2 and 3 Transceiver Module 2.4GHz ~ 2.5GHz Antenna Not Included, U.FL Surface Mount | U1                                | XCVR_ESP32-WROOM-32U       | ESP32-WROOM-32U                       | 1        |
| CP2102                 | USB Bridge, USB to UART USB 2.0 UART Interface 28-QFN _5x5_                                                                                    | U2                                | QFN28G_0.5-5X5MM           | INTERFACE-CP2102-GMR(QFN28)           | 1        |
| Buzzer small           | 5-12v small buzzer (12mm)                                                                                                                      | U3                                | BUZZER                     | Buzzer                                | 1        |
| LF33                   | 3.3V VOLTAGE REGULATOR                                                                                                                         | U5                                | D-PACK                     | LF33                                  | 1        |
| LCDTFT_1.69IN          | LCD TFT Color, 1.69", 240X280, ST7789V Driver                                                                                                  | U6                                | LCDTFT_1.69IN_ST7789V_MOD  | LCDTFT_1.69IN_ST7789V_MOD             | 1        |