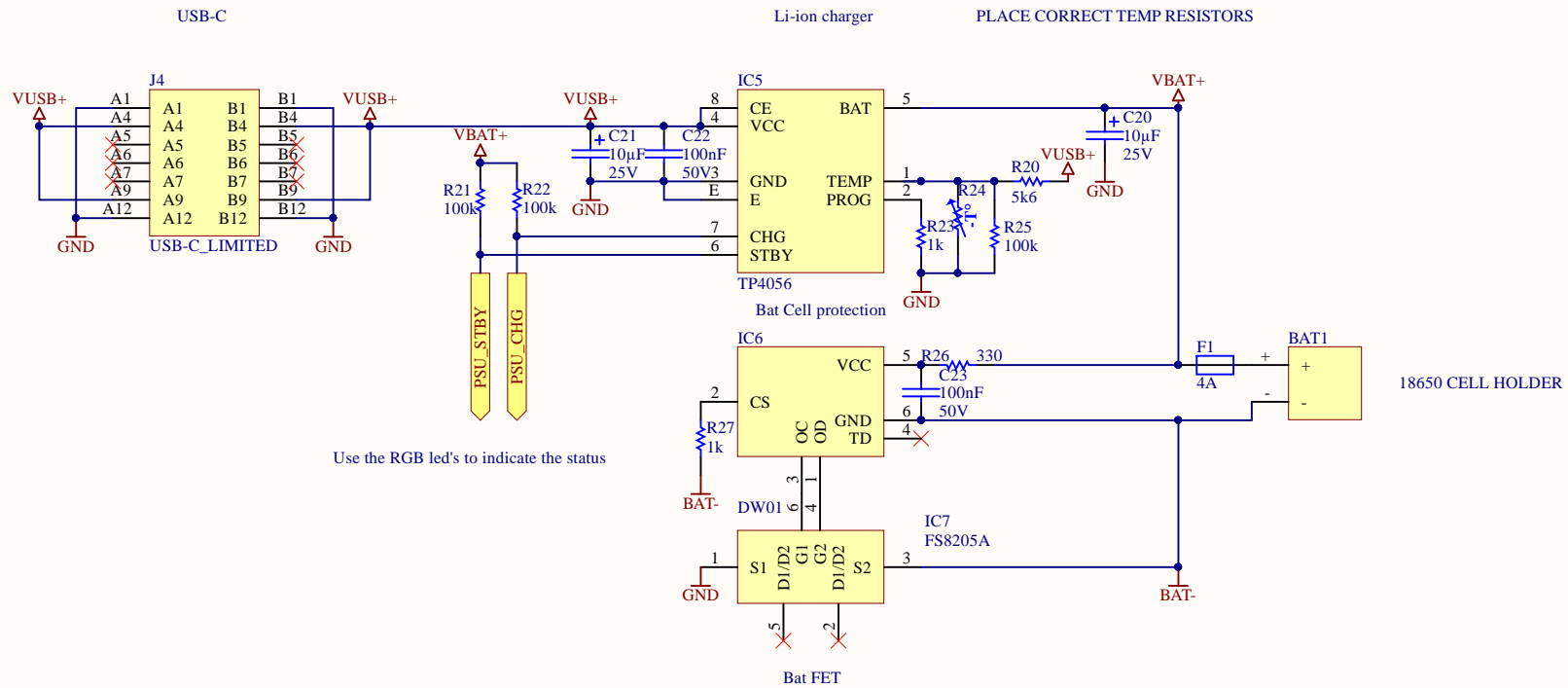
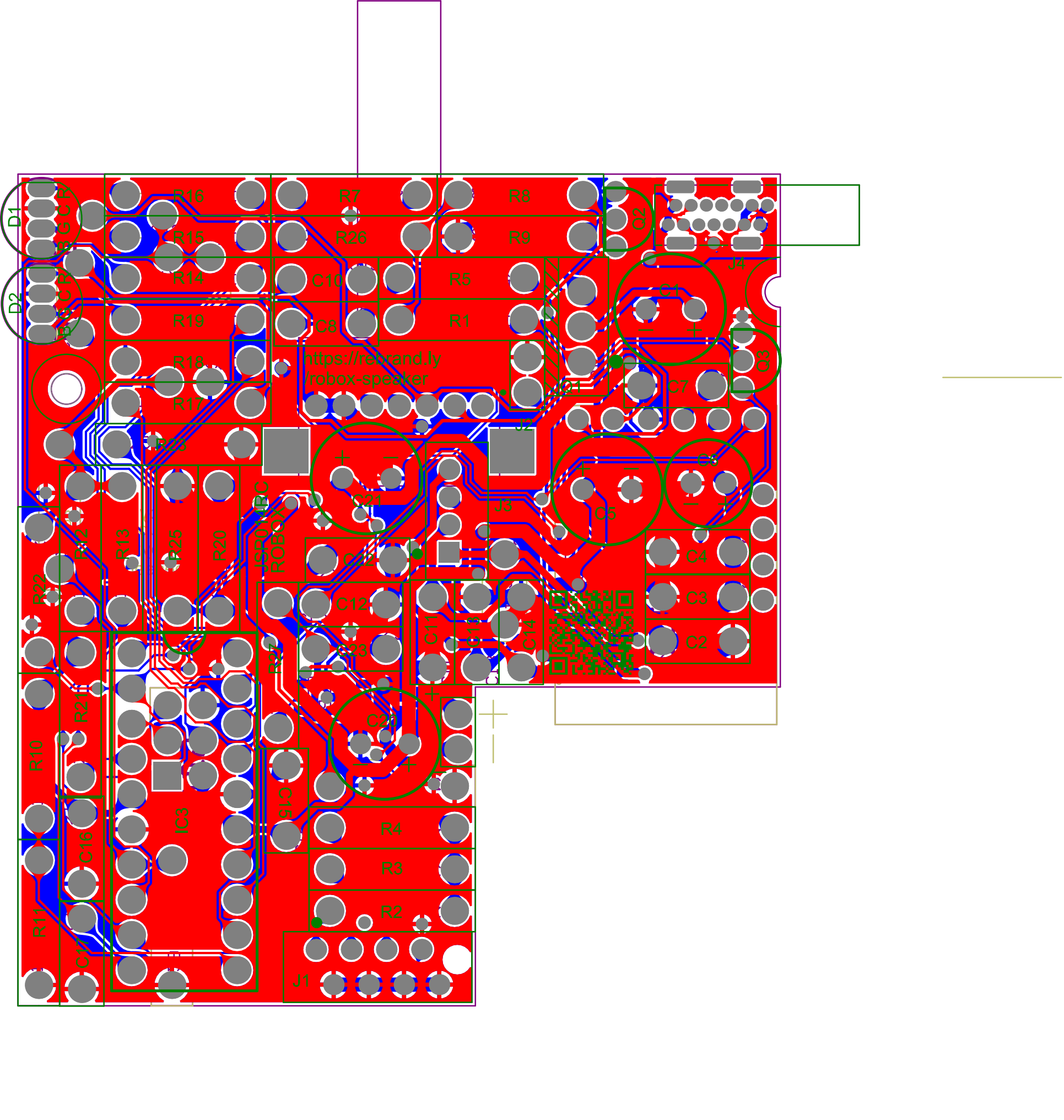


| Title |                         |           |          |
|-------|-------------------------|-----------|----------|
| Size  | Number                  |           | Revision |
| A4    |                         |           |          |
| Date: | 2/08/2022               | Sheet     | of       |
| File: | C:\Users\...\MCU.SchDoc | Drawn By: |          |



| Title |                         |           |          |
|-------|-------------------------|-----------|----------|
| Size  | Number                  |           | Revision |
| A4    |                         |           |          |
| Date: | 2/08/2022               | Sheet     | of       |
| File: | C:\Users\...\PSU.SchDoc | Drawn By: |          |



Project Title: JSP021RC.PrjPCB Number of PCB's: 1  
 BOM Revision: REV1  
 Date: 30/10/2019

## Components

| Designator  | #Column Name Error | #Column Name Error: value | Description  | #Column Name Error: manufacturer_ref | manufacturer                            | supplier_1 | supplier_1_partnum ber              | #Column Name Error: price | Quantity | Cost | Quantity for all PCB's | Total Cost |
|---|--------------------|---------------------------|--|--------------------------------------|---|------------|-------------------------------------|---------------------------|----------|------|------------------------|------------|
| C5  |                    |                           | CAP ALUM 470UF 20% 10V TH  |                                      | AISHI(Aihua Group)                      | lcsc       | C2924460                            |                           | 1        | 0    | 1                      | 0          |
| C9, C11, C13, C14   |                    |                           | CAP CER TH 100nF X7R 50V   |                                      | WMEC                                    | lcsc       | C2905888                            |                           | 4        | 0    | 4                      | 0          |
| Q1  |                    |                           | MOSFET P-CH 60V 17A TO-220AB   |                                      | HUASHUO                                 | lcsc       | C2903571                            |                           | 1        | 0    | 1                      | 0          |
| R14, R15, R17, R18  |                    |                           | RES TH 56 OHM 5% 1/8W  |                                      | VO                                      | lcsc       | C2896859                            |                           | 4        | 0    | 4                      | 0          |
| R2  |                    |                           | RES TH 56k OHM 5% 1/4W   |                                      | VO                                      | lcsc       | C2896856                            |                           | 1        | 0    | 1                      | 0          |
| R26   |                    |                           | RES TH 330 OHM 5% 1/4W   |                                      | VO                                      | lcsc       | C2894590                            |                           | 1        | 0    | 1                      | 0          |
| R23, R27  |                    |                           | RES TH 1k OHM 5% 1/4W  |                                      | VO                                      | lcsc       | C2894570                            |                           | 2        | 0    | 2                      | 0          |
| R3  |                    |                           | RES TH 33k OHM 5% 1/4W   |                                      | VO                                      | lcsc       | C2894551                            |                           | 1        | 0    | 1                      | 0          |
| R4, R5, R7  |                    |                           | RES TH 10k OHM 5% 1/4W   |                                      | VO                                      | lcsc       | C2894537                            |                           | 3        | 0    | 3                      | 0          |
| R1, R8, R9, R10, R11, R12, R13, R21, R22, R25, R28, R29, R30, R31 |                    |                           | RES TH 100k OHM 5% 1/4W  |                                      | VO                                      | lcsc       | C2894520                            |                           | 14       | 0    | 14                     | 0          |
| C1, C20, C21  |                    |                           | CAP ALUM 10UF 20% 25V TH   |                                      | Yunxing                                 | lcsc       | C2841587                            |                           | 3        | 0    | 3                      | 0          |
| D1, D2  |                    |                           | LED (RGB)  |                                      | TOGIALED                                | lcsc       | C2837020                            |                           | 2        | 0    | 2                      | 0          |
| IC7   |                    |                           | IC MOSFET Array 3A   |                                      | TECH PUBLIC                             | lcsc       | C2830320                            |                           | 1        | 0    | 1                      | 0          |
| J4  |                    |                           | USB TYPE C , RECEPTACLE, R/A   |                                      | G-Switch                                | lcsc       | C2762981                            |                           | 1        | 0    | 1                      | 0          |
| C2, C3, C4, C8, C10, C18, C19                                     |                    |                           | CAP CER TH 0.47µF X7R 50V  |                                      | Dersonic                                | lcsc       | C2761753                            |                           | 7        | 0    | 7                      | 0          |
| R16, R19  |                    |                           | RES TH 110 OHM 1% 1/8W   |                                      | Huaxing Mechanical-Elec.                | lcsc       | C713899                             |                           | 2        | 0    | 2                      | 0          |
| C7, C12, C15, C16, C17, C22, C23                                  |                    |                           | CAP CER TH 100nF X7R 50V   |                                      | FH                                      | lcsc       | C385200                             |                           | 7        | 0    | 7                      | 0          |
| R24   |                    |                           | THERMISTOR NTC 10KOHM 3435K BEAD                                     |                                      | Nanjing Shiheng Elec                    | lcsc       | C123389                             |                           | 1        | 0    | 1                      | 0          |
| C6  |                    |                           | CAP ALUM 1000UF 20% 10V TH   |                                      | AISHI(Aihua Group)                      | lcsc       | C105310                             |                           | 1        | 0    | 1                      | 0          |
| R20   |                    |                           | RES TH 4k12 OHM 1% 1/4W  |                                      | UNI-ROYAL(Uniroyal Elec)                | lcsc       | C58603                              |                           | 1        | 0    | 1                      | 0          |
| IC2   |                    |                           | 3W x 2 RL=4Ω 2.5V ~ 5.5V (stereo) Class D SOIC-16 Audio Power OpAmps |                                      | Diodes Incorporated                     | lcsc       | C17337                              |                           | 1        | 0    | 1                      | 0          |
| IC6   |                    |                           | IC Battery Management IC   |                                      | Fortune Semicon                         | lcsc       | C14213                              |                           | 1        | 0    | 1                      | 0          |
| Q2, Q3  |                    |                           | MOSFET N-CH 60V 0.2A TO-92   |                                      | Changjiang Electronics Tech (CJ)        | lcsc       | C9114                               |                           | 2        | 0    | 2                      | 0          |
| BAT1  |                    |                           | 18650 single cell Battery holder                                     |                                      | GTIWUNG                                 | amazon     | B08CY56M98                          |                           | 1        | 0    | 1                      | 0          |
| J3  |                    |                           | CONN HEADER VERT 4POS 2MM  |                                      | JST Sales America Inc.                  | digikey    | B4B-PH-K(LF)(SN)-ND                 |                           | 1        | 0    | 1                      | 0          |
| IC3   |                    |                           | IC MCU 8BIT 4KB FLASH 20DIP  |                                      | Microchip Technology                    | digikey    | ATTINY461A-PU-ND, 2057-ICS-320-T-ND |                           | 1        | 0    | 1                      | 0          |
| J1  |                    |                           | CA 200MM 08 POS. MOW-PB M-M VALU                                     |                                      | TE Connectivity AMP Connectors          | digikey    | A123436-ND                          |                           | 1        | 0    | 1                      | 0          |
| IC1   |                    |                           | M18 Bluetooth 4.2 Audio-receiver Module Lossless                     |                                      |   | banggood   | 1527332                             |                           | 1        | 0    | 1                      | 0          |
| R6  |                    |                           | POT 10K OHM 1/20W PLASTIC LINEAR                                     |                                      | TT Electronics/BI                       | digikey    | 987-1296-ND                         |                           | 1        | 0    | 1                      | 0          |
| F1  |                    |                           | FUSE BOARD MOUNT 4A 32VDC 0603                                       |                                      | Vishay Beyschlag/Draloric/BC Components | digikey    | 749-MFU0603FF04000P 500CT-ND        |                           | 1        | 0    | 1                      | 0          |
| IC5, J2, J5   |                    |                           | [NoValue], 'CONN 2 PIN SOLDER PADS, CONN 6 PIN SOLDER PADS FOR ISP   |                                      |   |            |                                     |                           | 3        | 0    | 3                      | 0          |
|   |                    |                           |  |                                      |   |            |                                     |                           | 0        | 0    | 0                      | 0          |