











| Comment                   | Description                    | Designator                                                                                                                                                                | Footprint                          | LibRef                        | Quantity |
|---------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------|----------|
| Сар                       | Capacitor                      | C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C30, C31, C34, C35, C38, C39, C40, C41, C44 | C0805                              | Сар                           | 36       |
| Cap Pol2                  | Polarized Capacitor (Axial)    | C28, C29, C32, C33,<br>C36, C37                                                                                                                                           | C0805                              | Cap Pol2                      | 6        |
| Cap2                      | Capacitor                      | C42, C43                                                                                                                                                                  | C0805                              | Cap2                          | 2        |
| SMAJ28CA                  | TVS Diode (Bi-<br>directional) | D1                                                                                                                                                                        | DIONM5226X262N                     | SMAJ28CA                      | 1        |
| PMEG4005EJ                | Schottky Diode                 | D2, D3                                                                                                                                                                    | SOD2512X80N                        | PMEG4005EJ                    | 2        |
| B360A-13-F                | Diode                          | D4, D5                                                                                                                                                                    | DIOM5226X240N                      | B360A-13-F                    | 2        |
| LD_MVSG-JGLH-46-1         | LED                            | D6, D7, D8, D9, D10,<br>D11                                                                                                                                               | LEDM2218X140N                      | LD_MVSG-JGLH-46-1             | 6        |
| NHD-C0220BIZ-FSW-FBW-3V3M | Display                        | DS1                                                                                                                                                                       | NHDC0220BIZFSWFB<br>W3V3M          | NHD-C0220BIZ-FSW-<br>FBW-3V3M | 1        |
| 5A                        | Fuse                           | F1                                                                                                                                                                        | PIN-W2/E2.8                        | Fuse 1                        | 1        |
| LM74700QDBVRQ1            | Integrated Circuit             | IC1                                                                                                                                                                       | SOT95P280X145-6N                   | LM74700QDBVRQ1                | 1        |
| TL432AIDBZR               | Integrated Circuit             | IC2                                                                                                                                                                       | SOT95P237X112-3N                   | TL432AIDBZR                   | 1        |
| TJA1051T_3,118            | Integrated Circuit             | IC3                                                                                                                                                                       | SOIC127P600X175-8N                 | TJA1051T_3,118                | 1        |
| STM32F042K4T6             | Integrated Circuit             | IC4                                                                                                                                                                       | QFP80P900X900X160-<br>32N          | STM32F042K4T6                 | 1        |
| INA2181A1IDGST            | Integrated Circuit             | IC5                                                                                                                                                                       | SOP50P490X110-10N                  | INA2181A4IDGST                | 1        |
| TLV1117-33IDCYR           | Integrated Circuit             | IC6                                                                                                                                                                       | SOT230P700X180-4N                  | TLV1117-33CDCYR               | 1        |
| LT3501EFE                 |                                | IC7                                                                                                                                                                       | SOP65P640X120-21N                  | LT3501EFE                     | 1        |
| INA181A1QDBVRQ1           | Integrated Circuit             | IC8                                                                                                                                                                       | SOT95P280X145-6N                   | INA181A1QDBVRQ1               | 1        |
| 7774                      | Connector                      | J1, J2, J4, J5                                                                                                                                                            | 7774                               | 7774                          | 4        |
| XT60PW-M                  | Connector                      | J3                                                                                                                                                                        | XT60PWM                            | XT60PW-M                      | 1        |
| B4B-XH-A_LFSN_            | Connector                      | J6                                                                                                                                                                        | B4BXHALFSN                         | B4B-XH-A_LFSN_                | 1        |
| GRPB052VWVN-RC            | Connector                      | J7                                                                                                                                                                        | HDRV10W50P127_2X<br>5_635X340X430P | GRPB052VWVN-RC                | 1        |
| Inductor                  | Inductor                       | L1, L2, L3                                                                                                                                                                | 0603                               | Inductor                      | 3        |
| DMT6007LFG-7              | MOSFET (N-Channel)             | Q1, Q2, Q3                                                                                                                                                                | DMT6007LFG7                        | DMT6007LFG-7                  | 3        |
| Res2                      | Resistor                       | R1, R2, R3, R4, R5, R6,<br>R7, R8, R9, R10, R11,<br>R12, R13, R14, R15,<br>R16, R20, R21, R22                                                                             | C0805                              | Res2                          | 19       |
| Res2                      | Resistor                       | R17, R18, R19                                                                                                                                                             | C1206                              | Res2                          | 3        |
| EXB-28V221JX              | Resistor Network               | RN1, RN2                                                                                                                                                                  | EXB28V510JX                        | EXB-28V221JX                  | 2        |
| CX5032GB08000H0HP<br>QZ1  | Crystal or Oscillator          | Y1                                                                                                                                                                        | CX5032GB08000H0HP<br>QZ1           | CX5032GB08000H0HP<br>QZ1      | 1        |