| Comment                      | Description                       | Designator                               | Footprint                     | LibRef                      | Quantity   |
|------------------------------|-----------------------------------|--|-------------------------------|-----------------------------|--|
|                              | Capacitor 35v 100uF               |  | CapAlu6.3mmx12.5              |                             |  |
| 100uF                        | 6.3mm                             | C1                                       | mm                            | 100uF_35v_6.3x12.5          | 1  |
| 10nF                         | CAP CER 10000PF<br>500V X7R 1206  | C2                                       | CAP_1206                      | 10nF_500V_1206              | 1  |
| 10111                        | CAP CER 10000PF                   |  | 5711_1200                     | 10111 _000                  |  |
| 10nF                         | 50V 10% X7R 0402                  | C3, C13, C16, C21                        | CAP_0402_M                    | 10nF_50V_0402               | 4  |
|                              | CAD CED 100NE FOV                 | C4, C14, C15, C17,                       |                               |                             |  |
| 100nF                        | CAP CER 100NF 50V<br>20% X5R 0402 | C20, C22, C26, C27,<br>C28, C29          | CAP_0402_M                    | 100nF_50V_0402              | 10   |
|                              | CAP CER 2.2UF 10V                 |  |                               |                             |  |
| 2.2uF                        | 20% X5R 0402                      | C5, C6                                   | CAP_0402_M                    | 2.2uF_10V_0402              | 2  |
| 100uF                        | CAP CER 100UF 6.3V<br>X5R 1206    | C7, C8, C10, C11                         | CAP_1206                      | 100uF_6.3v_1206_X5<br>R     | 4  |
| Toodi                        | CAP CER 1UF 25V                   | 07, 08, 010, 011                         | CAI_1200                      | K                           | 4  |
| 1uF                          | 10% X5R 0402                      | C9, C25                                  | CAP_0402_M                    | 1uF_25V_0402                | 2  |
| 10                           | CAP CER 10UF 10V                  | C12 C22                                  | CAD O/O2                      | 10F 10V 0/02                | 2  |
| 10uF                         | 20% X5R 0603<br>CAP CER 13PF 50V  | C12, C23                                 | CAP_0603                      | 10uF_10V_0603               |  |
| 13pF                         | 5% NP0 0402                       | C18, C19                                 | CAP_0402_M                    | 13pF_50V_0402               | 2  |
|                              | CAP CER 2.2UF 35V                 |  |                               |                             |  |
| 2.2uF                        | 10% X5R 0603<br>CAP CER 0.1UF 50V | C24                                      | CAP_0603                      | 2.2uF_35V_0603              | 1  |
| 100nF                        | 20% X7R 0603                      | C30                                      | CAP_0603                      | 100nF_50V_0603              | 1  |
|                              |                                   |  |                               |                             |  |
|                              | LED TOPLED 630NM                  | D  | TON 50 0                      | TON 50 45                   |  |
| Led Red                      | SUP RED CLR SMD<br>No Description | D1, D2                                   | TOPLED 0805                   | TOPLED 0803                 | 2  |
| 1N4148W-7-F                  | Available                         | D3, D4                                   | SOD123_DIO                    | 1N4148W-7-F                 | 2  |
|                              | FERRITE CHIP 40                   |  |                               |                             |  |
| 550mA                        | OHM 550MA 0402                    | F1                                       | RES_0402_M                    | 40O_550mA_0402              | 1  |
| 3557-2                       | No Description<br>Available       | F2, F3, F4                               | CONN_3557-2_KEY               | 3557-2                      | 2  |
| 0606050.UXTHP                | Fuse                              | F6, F7                                   | 0606050UXTHP                  | 0606050.UXTHP               | 2  |
| 42820-2224                   | Connector                         | J1, J7                                   | 428202224                     | 42820-2224                  | 2  |
| 76829-0002                   | CPU, Connector                    | J2, J3, J4                               | 768290002                     | 76829-0002                  | 3  |
| 76829-0004                   | Connector                         | J5, J6                                   | 768290004                     | 76829-0004                  | 2  |
| 1-2351965-2                  | Connector                         | J?                                       | 123519652                     | 1-2351965-2                 | 1  |
|                              | FILTER CHIP 220                   |  |                               |                             |  |
| 200R                         | OHM 2A 0603                       | L1                                       | IND_0603                      | Ferrite_200 ohms_2A         | 1  |
| MHDR1X5                      | Header, 5-Pin                     | P1                                       | MHDR1X5                       | MHDR1X5                     | 1  |
| FMMT614TA                    | Transistor BJT NPN                | Q1                                       | SOT95P230X110-3N              | FMMT614TA                   | 1  |
| WSK06125L000FEA              | No Description<br>Available       | R0, R21, R22, R23,<br>R24, R25, R26, R27 | RES_WSK0612_VIS               | WSK06125L000FEA             | 8  |
| WORKSOTESESSON EX            | RES SMD 1M OHM                    | RE I, REO, REO, RE                       | 1125_110110012_110            | WORKSOTE SECOND EX          | -  |
| 1M                           | 5% 1/4W 1206                      | R1                                       | RES_1206                      | 1M_5%_1206                  | 1  |
| 101                          | RES SMD 10K OHM                   | R2, R3, R4, R5, R6,                      | DEC 0400 M                    | 101/ 10/ 0402               | ,  |
| 10k                          | 1% 1/10W 0402<br>RES SMD 27 OHM   | R7                                       | RES_0402_M                    | 10k_1%_0402                 | 6  |
| 27                           | 1% 1/10W 0402                     | R8, R9                                   | RES_0402_M                    | 27_1%_0402                  | 2  |
|                              | RES SMD 10K OHM                   | R11, R12, R15, R16,                      |                               |                             |  |
| 10k                          | 1% 1/10W 0603<br>RES SMD 120 OHM  | R17, R19                                 | RES_0603                      | 10k_1%_0603                 | 6  |
| 120                          | 1% 1/10W 0402                     | R13, R14                                 | RES_0402_M                    | 120_1%_0402                 | 2  |
|                              | Resistor                          | R28                                      | J1-0603                       | Res3                        | 1  |
| J115F11AH24VDCS6             | Single-Pole Single-               |  |                               |                             |  |
| 1.5U                         | Throw Relay                       | Relay A, Relay B                         | MODULE4                       | Relay-SPST                  | 2  |
| B2B-XH-A(LF)(SN)             | No Description<br>Available       | TO KILL SWITCH                           | CONN_B2B-XH-<br>A(LF)(SN)_JST | B2B-XH-A(LF)(SN)            | 1  |
| BEB XIII X(EI )(BIV)         | 500 mA, Low                       | TO RILL OWN OF                           | 7 (2.7 )(0.14)_50.1           | 525 XII 7 (C. )(0.1)        | ·  |
|                              | Voltage, Low                      |  |                               |                             |  |
| MCP1825S-                    | Quiescent Current                 | 111                                      | SOT230P700X180-               | MCP1825S-                   | 1  |
| 3302E/DB                     | LDO Regulator<br>Tiva             | U1                                       | 4N                            | 3302E/DB                    | - '  |
|                              | TM4C123GH6PM                      |  |                               |                             |  |
|                              | Microcontroller                   |  | TOOTDEADAGG                   |                             |  |
| TM4C123GH6PMI                | ARM Cortex 80 MHz<br>FPU          | U2                                       | TSQFP50P1200X120<br>0X120-64N | TM4C123GH6PMI               | 1  |
|                              | IC USB SERIAL BASIC               |  | QFN65P400X400X80              |                             | <del>                                     </del> |
| FT230XQ                      | UART 16QFN                        | U3                                       | _HS-17N                       | FT230XQ-R                   | 1  |
| IN I A 20201 A CCC 20172 - 1 | No Description                    |  | DOMA CODE COORE               | IN LA COCK A COCK (S. T. T. |  |
| INA3221AQRGVRQ1              | Available                         | U4                                       | RGV16_2P16X2P16_              | INA3221AQRGVRQ1             | 1  |
| USB type-B jack              | USB type-B jack<br>CRYSTAL 16MHZ  | USB1                                     | USB2.5-2H4E                   | MOLEX 0670688010            | 1  |
| CRYSTAL 16MHZ                | 20PF SMD                          | X1                                       | CRYSTAL_3.2x2.5               | 403C35E16M00000             | 1  |
|                              |                                   |  | •                             |                             |  |





