

| Comment | Description | Designator | Footprint | LibRef | Quantity |
|-------------------|---|---|-------------------------------|--------------------------|----------|
| 0.047 uF | CAP CER 0.047UF 100V 5% X7R 0603 | CO, C1 | FP-C0603C-CF-MFG | CMP-1035-02515-3 | 2 |
| 0.1uF | 0.1ŵF ű10% 16V Ceramic Capacitor X7R 0603 _1608 Metric_ | C2, C3, C4, C5, C10, C11, C12, C13, C15, C16, C17, C20, C21, C22 | CAPC1608X90N | EMK107B7104KAHT | 14 |
| 10uF | 10 ÂμF ±10% 10V Ceramic Capacitor JB 0603 (1608 Metric) | C6, C14 | CAPC1608X90N | C1608JB1A106K080AC | 2 |
| 22pF | 22pF ű5% 25V Ceramic Capacitor COG, NP0 0603 _1608 Metric | C8, C9 | CAPC1608X90N | C0603C220J3GACAUT O | 2 |
| 10nF | INCUIC_ | C18 | CAPC2012X88N | C0805C103K1RECAUT | 1 |
| 3.3uF | | C19 | CAPC1608X90X35NL1 | O CMP-1035-02770-2 | |
| HDSP-523G | Display Modules - LED Character and Numeric Green 7- Segment 2 Character Common Cathode 2V 10mA 0.732 H x 0.984 W x 0.315 D (18.60mm x 25.00mm x 8.00mm) 18-DIP (0.600, 15.24mm) | DO | 5T15 LED_HDSP-523G | HDSP-523G | 1 |
| 5-146282-4 | Connector Header Through Hole 4 position 0.100 (2.54mm) | J1 | TE_5-146282-4 | 5-146282-4 | 1 |
| UJC-VP-3-SMT-TR | USB Receptacle | J2 | CUI_UJC-VP-3-SMT- TR | UJC-VP-3-SMT-TR | 1 |
| Master Switch | 2~24 Poles, Screw Type, Horizontal, 5.0 Pitch, 26~14_AWG_ Terminal Block Connector | 13 | CUI_TB003-500-P02BE | TB003-500-P02BE | 1 |
| TSW-105-07-S-D-LL | | J4 | SAMTEC_TSW-105-07- S-D-LL | TSW-105-07-S-D-LL | 1 |
| Game Reset | 2-24 Poles, Screw Type, Horizontal, 5.0 Pitch, 26-14_AWG_, Terminal Block Connector | J5 | CUI_TB003-500-P02BE | TB003-500-P02BE | 1 |
| TSW-103-08-G-D | 0.025" SQ Post Header, Through- hole, Vertical, -55 to 125 degC, 2.54 mm Pitch, 6-Pin, Male, RoHS | P1 | SMTC-TSW-103-08-X-D | CMP-1024-00338-1 | 1 |
| TSW-104-08-L-D | Male Header, Pitch 2.54 mm, 2 x 4 Position, Height 8.38 mm, Tail Length 5.08 mm, -55 to 125 degC, | P2 (BUTTON), P3 (LED) | SMTC-TSW-104-08-L- D_V | CMP-1681-00006-4 | 2 |
| 10k Ohm | RoHS, Bulk | R1, R4, R24, R25, R26, R27, R28, R29, R30, R35 | RESC3116X60N | CRCW120610K0DHEA P | 10 |
| 5.1k | Res Thick Film 2512 5.1K Ohm 1% 3W SMD T/R | R2, R3 | RESC6332X120N | 35225K1FT | 2 |
| RMCF0603FG1K00 | 1kΩ ±1% 0.1W 0603 Thick Film Chip Resistor AEC-Q200 compliant | R5 | FP-RMCF0603-IPC_B | CMP-26527-003160-1 | 1 |
| 100 Ohm | RES Thick Film, 100Ω, 1%, 0.25W, 100ppm/°C, 1206 | R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19 | FP-CRCW1206-e3- MFG | CMP-2003-04801-2 | 14 |
| CRCW12062K20FKEA | RES Thick Film, 2.2kΩ, 1%, 0.25W, 100ppm/°C, 1206 | R20, R21, R22, R23 | FP-CRCW1206-e3- IPC_C | CMP-2003-02034-2 | 4 |
| 2.2k | RES Thick Film, 2.2kΩ, 1%, 0.25W, 100ppm/°C, 1206 | R31, R32, R33, R34 | FP-CRCW1206-e3- IPC_C | CMP-2003-02034-2 | 4 |
| 3290W-1-203 | Trimming Potentiometer, 20 KOhm, 1 W, -65 to 150 degC, 3-Pin THD, RoHS, Tube | RV1 | BOUR-3290W | CMP-2000-05581-1 | 1 |
| ATMEGA328-PU | AVR AVR® ATmega Microcontroller IC 8- Bit 20MHz 32KB (16K x 16) FLASH 28-PDIP | U1 | DIP787W46P254L3467 H508Q28 | ATMEGA328-PU | 1 |
| SN74HC393PWT | | U2 | SOP65P640X120-14N | SN74HC393PWT | 1 |
| CD4511BNSR | | U3, U4 | SOP127P780X200-16N | CD4511BNSR | 2 |
| LM339MX | Quad Comparator | U5 | SOIC127P630X170- 14N | LM339MX | 1 |
| SN74HC153PWT | IC MULTIPLEXER 2 X 4:1 16TSSOP | U6, U7 | SOP65P640X120-16N | SN74HC153N | 2 |
| MC1455BDR2G | Single Precision Timer | U8 | SOIC127P599X175-8N | NE555DR | 1 |
| SN74HC04PWT | Hex Inverters 14- TSSOP -40 to 85 | U9 | SOP65P640X120-14N | SN74HC04PWT | 1 |
| SN74HC08PW | | U10, U11 | SOP65P640X120-14N | SN74HC08PW | 2 |
| 16MHz | 16MHz ű30ppm Crystal 20pF 60 Ohms 2-SMD, No Lead | Υ1 | XTAL_ECS-160-20-23A EN-TR | ECS-160-20-23A-EN- TR | 1 |